

Inspired by design

EdgeClips were developed for a luxury car. The cables needed to be routed precisely along an edge where neither drilling nor welding was permitted. The newly developed EdgeClip solved the problem so brilliantly that this smart cable routing solution was quickly applied to other models all over the world. We now offer around 90 different versions that are used in different industries.

| — | 1.0 Technical Information | 26 |
|---------------|-------------------------------------|-----|
| Ø | 1.1 Cable Ties Inside Serrated | 40 |
| \mathcal{O} | 1.2 Cable Ties Outside Serrated | 68 |
| D | 1.3 Cable Ties Without Serration | 74 |
| - | 1.4 Cable Ties, Releasable | 77 |
| | 1.5 Cable Ties, Stainless Steel | 85 |
| MA | 1.6 Cable Ties With Fixing Elements | 96 |
| < | 1.7 Cable Tie Mounts | 134 |
| S(* | 1.8 Fixing Elements | 169 |
| | 1.9 Clips, Clamps and Plugs | 191 |



1.0 Technical Information

| Material specification overview | 26 |
|---|----|
| Chemical resistance for indoor and outdoor applications | 28 |
| Materials guide for cable ties series | 30 |
| Properties of polyamide PA66 | 31 |
| Properties of polyamide PA66W, PA11/PA12, PA46 | 32 |
| Properties of polyamide PEEK and E/TFE (Tefzel®) | 33 |
| Chemical resistance of various plastics | 34 |
| Flammability test according UL94 | 35 |
| Conformity to IEC 62275 standards for cable ties | 36 |
| Determination of minimum tensile strength | 37 |
| Locking technologies for cable ties | 38 |
| Optimum storage conditions for cable ties | 39 |
| | |

1.1 Cable Ties Inside Serrated

| | matea | |
|---|-------------------------------------|----|
| T-Series | | |
| standard, natural and black | PA66 | 40 |
| standard, coloured | PA66 | 42 |
| for outdoor use, black | PA66W, UV-resistant | 44 |
| temperatures up to +105 °C | PA66HS, heat stabilised | 46 |
| for higher impact resistance, ScanBlack | PA66HIR(S), high impact modified | 48 |
| for higher fire-protection | PA66V0, flame-retardant | 49 |
| temperatures up to + 150 °C | PA46 | 50 |
| for higher chemical resistance and temperatures up to +170 °C | E/TFE | 51 |
| for higher chemical resistance and temperatures up to +115 °C | Polypropylene (PP) | 52 |
| sustainable bioplastic, black | PA11 | 53 |
| In-between size to T-Series | | |
| natural and black | LK-Series | 54 |
| With open head | | |
| standard, natural and black | Q-Series, PA66 | 56 |
| standard, coloured | Q-Series, PA66 | 57 |
| for outdoor use, black | Q-Series, PA66W | 59 |
| up to + 105 °C, natural and black | Q-Series, PA66HS | 60 |
| With smart design | | |
| for tight applications | X-Series | 61 |
| For hose and gaiter | | |
| natural and black | CTT-Series | 62 |
| | | |

For parallel routing

| various materials, natural and black | DH-Series | 63 |
|--------------------------------------|----------------------|----|
| For food industry | | |
| detectable | MCT-Series, PA66MP | 65 |
| detectable, releasable | MCT-Series, PA66MP | 65 |
| detectable, corrosion resistant | MCTS-Series, PA66MP+ | 66 |
| detectable | MCT-Series, PPMP | 67 |
| detectable, corrision resistant | MCTS-Series, PPMP+ | 67 |

1.2 Cable Ties Outside Serrated

| For thin-walled bundles | | |
|-----------------------------------|----------------|----|
| | OS-Series | 68 |
| For temperatures up to +240 °C | | |
| | PEEK-Ties | 69 |
| With 90° angled head | | |
| | V-Series | 70 |
| With low profile head | | |
| coloured | PE-Series | 71 |
| releasable | RPE-Series | 71 |
| standard and high impact modified | LPH-Series | 72 |
| sustainable bioplastic, black | Robusto-Series | 73 |
| | | |

1.3 Cable Ties Without Serration ad by alass fibra nin

| Locked by glass lible plil | | |
|-------------------------------|--------------|----|
| 1-piece | KR-Series | 74 |
| ultrasonic welded | KR-Series | 75 |
| endless | KR-Series | 75 |
| With separate head and spacer | | |
| endless | EL-TY-Series | 76 |
| | | |

Date of issue: 10/2017

Cable Ties and Fixings

1



| 1.4 Cable Ties, Release | able | |
|---------------------------------------|-------------------------|----|
| Inside serrated | | |
| with extended pawl, up to 200 N | RELK-Series | 77 |
| with extended pawl, up to 670 N | RLT-Series | 77 |
| | RT250-Series | 78 |
| with tuckaway | REL250-Series | 78 |
| with kickdown lever | REL-Series | 79 |
| Outside serrated | | |
| for marking purposes, coloured | LR55-Series | 80 |
| Without serration | | |
| | SOFTFIX-Family | 81 |
| flexible at low temperatures | SRT-Series | |
| | for industry quantities | 81 |
| Inside serrated | | |
| one-hand release mechanism | REZ-Series | 82 |
| With quick release mechanism | | |
| up to 888 N | SpeedyTie | 83 |
| With hook and loop | | |
| for identification purposes, coloured | TEXTIE-Series | 84 |

| 1.5 Cable Ties, Stai | nless Steel | |
|----------------------------------|--|----|
| Technical Information | | |
| Short circuit test (SCT) | | 85 |
| with ball-lock | | |
| standard metal ties | MBT-Series SS304 | 86 |
| standard metal ties | MBT-Series SS316 | 87 |
| double wrapped | MBTXHD- and MBTUHD-Series SS316 | 89 |
| coated | MBT-FC-Series SS316 | 90 |
| double wrapped, coated | MBTXHDFC- and MBTUHDFC-Series SS316 | 92 |
| With punch-locking mechanisn | n | |
| high vibration resistance | MST-Series SS304 | 93 |
| With fold locking | | |
| uncoated | MLT-Series SS316 | 94 |
| coated | MLT-C-Series SS316 | 94 |
| Protective channel for stainless | s steel ties | |
| endless | LFPC-Series | 95 |

| 7880/m | | |
|---|---|-----|
| 1.6 Cable Ties With | Fixing Elements | |
| Product Selection | | |
| Selection guide for fixing ties | | 96 |
| 1-Piece Fixing Ties | | |
| | for round holes | 98 |
| with arrowhead and disc | releasable | 99 |
| | for round holes, sealed | 100 |
| | for oval holes, sealed | 100 |
| | for round holes | 101 |
| with arrowhead and wings | releasable | 102 |
| | for oval holes | 102 |
| with arrowhead | without wings and disc | 103 |
| with arrowhead and disc | for temperatures up to +240 °C | 104 |
| | for round holes | 109 |
| with factors and disc | releasable | 110 |
| with fir tree and disc | with Stand-off, for round holes | 111 |
| | for cable routing above the stud | 116 |
| for weld studs | for cable routing alongside the stud | 117 |
| | moveable | 118 |
| | for heavy duty applications | 118 |
| for heavy duty applications | for parallel routing | 119 |
| with mounting head | for screws | 120 |
| for edges | EdgeClip-Family | 121 |
| 2-Piece Fixing Ties | 5 1 5 | |
| | for round holes | 105 |
| | for round holes, sealed | 106 |
| with amouthood and disc | for oval holes | 106 |
| with arrowhead and disc | for parallel routing | 107 |
| | for temperatures up to +240 °C, PEEK | 108 |
| | FT3 | 112 |
| with fir tree and disc for round holes | FT5 | 112 |
| | FT6 | 113 |
| | FT7 - FT10 | 114 |



2-Piece Fixing Ties

| with deep hole anchor for round holes | DHA5.5-DAH8.4 | 115 |
|---------------------------------------|---------------------------|-----|
| for weld studs | for parallel routing | 119 |
| | 1.0 - 3.0 mm, top fixing | 123 |
| | 1.0 - 3.0 mm, side fixing | 124 |
| <i>c</i> | 3.0 - 6.0 mm, top fixing | 125 |
| for edges EdgeClip-Family | 3.0 - 6.0 mm, side fixing | 125 |
| | 0.5 - 2.5 mm, top fixing | 126 |
| | 0.5 - 2.5 mm, side fixing | 126 |
| | twistable | 127 |
| with pipe clip | Overview | 130 |
| with coupler | for parallel separation | 132 |
| for boost duty applications | HDM-Series | 133 |
| for heavy duty applications | DHDM-Series | 133 |
| Heavy Duty Harness Clips | | |
| Beam clamps | | 128 |
| | | |

| 1.7 Cable Tie Mounts | | |
|--|----------------------|-----|
| Technical Information | | |
| Installation of self adhesive mounts | | 134 |
| With high performance adhesive | | |
| for round and angled surfaces, self adhesive | FlexTack-Series FMB | 135 |
| arroughle celf edhesius | SolidTack-Series QM | 136 |
| screwable, self adhesive | SolidTack-Series MB | 138 |
| Square-Cut | | |
| screwable, self adhesive | Q-Mount-Series QMA | 137 |
| screwable | Q-Mount-Series QM | 137 |
| Square base mount | | |
| screwable, self adhesive | MB-Series | 139 |
| screwable | MB-Series | 139 |
| For flat ribbon cables | | |
| screwable | FKH-Series | 140 |
| self adhesive | FKH-Series | 140 |
| screwable, self adhesive | SolidTack-Series FKH | 140 |
| flexible flat design, self adhesive | Type 130100 | 145 |

| screwable | TY-Series | 141 |
|---|-------------------------|------|
| screwable, self adhesive | TY-Series | 141 |
| Paste adhesive mount | | |
| for fixing with paste / liquid adhesive | PMB5 | 142 |
| With round design | 11005 | 142 |
| self adhesive | RA-Series | 143 |
| With flat, round design | NA SCHOS | 145 |
| self adhesive | RR-Series | 144 |
| With flexible flat design | ND Selles | 144 |
| self adhesive | SAC-Series | 145 |
| | SAC-Selles | 143 |
| For food industry | MCMD Caria | 1.40 |
| square-cut, screwable, detectable | MCMB-Series | 146 |
| For limited space | | |
| screwable | Q-Mount-Series CTQM | 147 |
| | CTAM-Series | 149 |
| Curved design | | |
| | CTM-, KR-, MCKR-Series | 148 |
| screwable | MB-Series | 151 |
| | TY-Series | 151 |
| Overlapping curved design | | |
| screwable | LKC-, NY-Series | 150 |
| Curved design, for sideways fixing | | |
| screwable | LKM-, CL-, FH-Series | 152 |
| Fixing base mount | | |
| screwable | LOK02 | 153 |
| Clamps with elasticated loop | | |
| | Cradle Clamp | 154 |
| Strain relief clips | | |
| | Klam-Klip (KK) | 155 |
| Harness clips for heavy duty applic | ations | |
| | Standard torque mounts | 156 |
| for errous or stude | Medium torque mounts | 156 |
| for screws or studs | High torque mounts | |
| | (metal bushing) | 157 |
| Two way saddle mount for heavy d | luty applications | |
| for screws or threaded bolts | for parallel separation | 157 |
| Axial oval mount for heavy duty ap | plications | |
| for screws or threaded bolts | for edges | 158 |
| | | |

Cable Ties and Fixings

1



Heavy duty mounts

| for 2 way routing | S3CBM8 | 159 |
|------------------------------------|-------------------|-----|
| for 3-way routing | S3SB15CBM8 | 159 |
| Stainless steel mounts | | |
| screwable | SSPC-Series SS316 | 160 |
| Heavy duty cable clamps | | |
| | A-Series | 161 |
| | B-Series | 162 |
| for screw fixing, Ratchet P-Clamps | C-Series | 162 |
| | D-Series | 162 |
| | Accessories | 162 |
| Aluminium P-Clamps | | |
| | Alu-P-Series | 163 |
| Plastic P-Clamp | | |
| | HP-Series | 165 |
| Fixing elements with fir tree | | |
| for distance routing | Saddle mount | 166 |
| Fixing elements for BHT-ties | | |
| for distance routing | MSBT120 | 166 |
| Mounting plates | | |
| screwable | MP-Series | 167 |

| 1.8 Fixing Elements | | |
|----------------------------------|------------|-----|
| Cable fixing cradle | | |
| | TM1SF | 169 |
| Arrowhead cradle | | |
| | SFC-Series | 169 |
| Bundling clips | | |
| | Overview | 170 |
| Connector clips | | |
| | Overview | 172 |
| For automatic cable tying system | ms | |
| Bundling clips | | 174 |
| Edge clips | | 175 |
| Fir tree clips | | 175 |

Fixing elements for tubes and harnesses

| with arrowhead | | 176 |
|-----------------------------------|--|-----|
| with fir tree | | 176 |
| | AHC-Series | 177 |
| with automatic locking feature | IAHC-Series, connectable | 179 |
| with automatic locking reature | IAHC-Series, connectable, with arrowhead | 180 |
| rotatable 360° | DTC - Double Tube Clip | 181 |
| Wire push in clips | | |
| | WPC-Series | 182 |
| Fixing elements for tubes and ha | irnesses | |
| for edges | EdgeClip-Family | 183 |
| Fixing elements for corrugated to | ubing | |
| with fir tree | CTC-Series | 184 |
| with fir tree and cover | CNCTC-Series | 184 |
| for weld studs | CTC-Series for weld studs | 185 |
| with arrowhead | | 186 |
| Fixing elements | | |
| for weld studs | SB-Series | 187 |
| | CT-Series | 187 |
| for parallel routing | twistable | 188 |
| | LOK04 | 188 |
| Fixing base | | |
| | LOK-Series | 189 |
| Rivet mount | | |
| | TY5-Series | 190 |
| | | |

 1.9 Clips, Clamps and Plugs

 Blind plugs
 191

 Snapper hose clips
 192

 for tubes and harnesses
 SNP-Series
 192

 Plastic rivets
 TY-Series
 194

Material Specification Overview

| MATERIAL | Material Shortcut | Operating Temperature | Colour** | Flammability | Material Properties* | Material Specifications |
|--|-----------------------|---|-----------------------------|--------------|--|----------------------------|
| Aluminium-alloy | AL | -40 °C to +180 °C | Natural (NA) | | Corrosion resistantAntimagnetic | RoHS |
| Chloroprene | CR | -20 °C to +80 °C | Black (BK) | | Weather-resistantHigh yield strength | RoHS |
| Ethylene Tetrafluoroethylene (Tefzel [®]) | E/TFE | -80 °C to +170 °C | Blue (BU) | UL 94 V0 | Resistance to radioactivity UV- resistant, not moisture sensitive Good chemical resistance to: acids, bases, oxidizing agents | RoHS |
| Polyacetal | POM | -40 °C to +90 °C, (+110 °C, 500 h) | Natural (NA) | UL 94 HB | Limited brittleness sensitivity Flexible at low temperature Not moisture sensitive Robust on impacts | RoHS |
| Polyamide 11 | PA11 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL 94 HB | Bio-plastic, derived from vegetable oil Strong impact resistance at low temperature Very low moisture absorption Weather-resistant Good chemical resistanc | HF RoHS |
| Polyamide 12 | PA12 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL 94 HB | Good chemical resistance to: acids, bases, oxidizing agents UV- resistant | HF RoHS |
| Polyamide 4.6 | PA46 | -40 °C to +150 °C (5000 h), +195 °C (500 h) | Natural (NA), Grey (GY) | UL 94 V2 | Resistance to high temperatures Very moisture sensitive Low smoke sensitiv | HF LFH RoHS |
| Polyamide 6 | PA6 | -40 °C to +80 °C | Black (BK) | UL 94 V2 | High yield strength | RoHS |
| Polyamide 6, high impact modified | PA6HIR | -40 °C to +80 °C | Black (BK) | UL 94 HB | Limited brittleness sensitivity Higher flexibility at low temperature | RoHS |
| Polyamide 6.6 | PA66 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK), Natural (NA) | UL 94 V2 | High yield strength | HF RoHS |
| Polyamide 6.6, glass-fibre reinforced | PA66GF13, PA66GF15 | -40 °C to +105 °C | Black (BK) | UL 94 HB | Good resistance to: lubricants, vehicle fuel, salt water and a lot of solvent | HF RoHS |
| Polyamide 6.6, heat and UV stabilised | PA66HSW | -40 °C to +105 °C | Black (BK) | UL 94 V2 | High yield strength Modified elevated max. temperature UV-resistant | HF RoHS |
| Polyamide 6.6, heat stabilised | PA66HS | -40 °C to +105 °C | Black (BK), Natural (NA) | UL 94 V2 | High yield strength Modified elevated max. temperature | HF RoHS |
| Polyamide 6.6, high impact modified | PA66HIR | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) | UL 94 HB | Limited brittleness sensitivity Higher flexibility at low temperature | RoHS |
| Polyamide 6.6, high impact modified, heat and UV stabilised | PA66HIRHSW | -40 °C to +110 °C | Black (BK) | UL 94 HB | Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated max. temperature High yield strength, UV-resistant | RoHS |
| Polyamide 6.6, high impact modified, heat stabilised | PA66HIRHS | -40 °C to +105 °C | Black (BK) | UL 94 HB | Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated max. temperature | RoHS |
| Polyamide 6.6, high impact modified, ScanBlack | PA66HIR(S) | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) | UL 94 HB | Limited brittleness sensitivity Higher flexibility at low temperature | RoHS |
| Polyamide 6.6, UV-resistant | PA66W | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL 94 V2 | High yield strength UV-resistant | HF RoHS |

Cable Ties and Fixings

1

| MATERIAL | Material Shortcut | Operating Temperature | Colour** | Flammability | Material Properties* | Material Specifications |
|---|----------------------|---------------------------------------|-----------------------------|------------------------|--|----------------------------|
| Polyamide 6.6, with metal particles | PA66MP | -40 °C to +85 °C, (+105 °C, 500 h) | Blue (BU) | UL 94 HB | High yield strength Metal and X-Ray detectable | HF RoHS |
| Polyamide 6.6, with metal particles | PA66MP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | High yield strength Metal and x-ray detectable | HF RoHS |
| Polyamide 6.6 V0 | PA66V0 | -40 °C to +85 °C | White (WH) | UL 94 V0 | High yield strengthLow smoke emission | HF LFH RoHS |
| Polyester | SP | -50 °C to +150 °C | Black (BK) | halogen free | UV-resistant Good chemical resistance to: most acids, alkaliks and oils | HF LFH RoHS |
| Polyetheretherketone | PEEK | -55 °C to +240 °C | Beige (BGE) | UL 94 V0 | Resistance to radioactivity Not moisture sensitive Good chemical resistance to: acids, bases, oxidizing agents | HF LFH RoHS |
| Polyethylene | PE | -40 °C to +50 °C | Black (BK), Grey (GY) | UL 94 HB | Low moisture absorption Good chemical oilsresistance to: most acids, alcohol and oils | HF RoHS |
| Polyolefin | PO | -40 °C to +90 °C | Black (BK) | UL 94 V0 | Low smoke emissions | HF LFH RoHS |
| Polypropylene | PP | -40 °C to +115 °C | Black (BK), Natural (NA) | UL 94 HB | Floats in water Moderate yield strength Good chemical resistance to: organic acids | HF RoHS |
| Polypropylene, Ethylene-Propylene- Dien-Terpolymere- rubber free of Nitrosamine | pp, epdm | -20 °C to +95 °C | Black (BK) | UL 94 HB | Good resistance to high temperatures Good chemical and abrasion resistance | HF RoHS |
| Polypropylene with metal particles | PPMP | -40 °C to +115 °C | Blue (BU) | UL 94 HB | Metal and X-Ray detectable Heat resistant Moderate yield strength Good chemical resistance | RoHS |
| Polypropylene with metal particles | PPMP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | High yield strength Metal and x-ray detectable | HF RoHS |
| Polyvinylchloride | PVC | -10 °C to +70 °C | Black (BK), Natural (NA) | UL 94 V0 | Low moisture absorption Good chemical resistance to: acids, ethanol and oil | RoHS |
| Stainless Steel | SS304, SS316 | -80 °C to +538 °C | Natural (NA) | non-burning | Corrosion resistant Antimagnetic Weather resistant Outstanding chemical resistance | HF LFH RoHS |
| Thermoplastic Polyurethane | TPU | -40 °C to +85 °C | Black (BK) | UL 94 HB | High elastic Good chemical resistance to: acids, bases and oxidizing agents | HF RoHS |

Tefzel[®] is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel[®]-Tie. In additon to Tefzel[®] from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers. *These details are only rough guide values. They should not be regarded as a material specification and are no substitute for a suitability test. Please see our datasheets for further details.

**More colours on request.

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= Minimum Loop Tensile Strength for Cable Ties (Newton)

HF = Halogenfree

LFH = Limited Fire Hazard **RoHS = Restriction of Hazardous Substances**

Date of issue: 10/2017

Indoor applications

| Standard temperature up to +85 °C | | | |
|---|----|--|--|
| Cable tie series and length Page | | | |
| SOFTFIX-Family TPU, BK Length 180–880 mm | 81 | | |
| SRT-Series Industrial quantities TPU, BK Length 180–880 mm | 81 | | |

| Heat stabilised up to +105 °C | | | |
|--|------|--|--|
| Cable tie series and length | Page | | |
| T-Series PP, NA, BK Length 100–390 mm | 52 | | |

| High temperature +150 °C and higher | | |
|---------------------------------------|------|--|
| Cable tie series and length | Page | |
| PEEK-Series, BGE Length 145–250 mm | 69 | |



| Standard temperature up to +85 °C | | | | | |
|---|------|---|------|--|------|
| Cable tie series and length | Page | Cable tie series and length | Page | Cable tie series and length | Page |
| CTT-Series PA66, NA, BK Length 101.6–205 mm | 62 | MCTRELK-Series PA66MP, BU Length 250 mm | 65 | RT250-Series PA66, BK, NA Length 563.3–1,030 mm | 78 |
| DH-Series PA66, NA, BK Length 210–395 mm | 63 | MCTS-Series PA66MP+, MGN, MST, RUS, BU, Length 100–301 mm | 66 | SpeedyTie PA66, RD, YE Length 752 mm | 83 |
| KR-Series PA66, NA Length 210–360 mm | 74 | OS-Series PA66V0 BK, NA, WH, GY Length 100–385 mm | 68 | SpeedyTie PA66HIR(S), BK Length 752 mm | 83 |
| LK-Series PA66, BK, NA Length 270–535 mm | 54 | PE-Series PA66, BU, YE, GN, RD Length 400 mm | 71 | TEXTIE-Series PA66 and PP, BK, RD, YE, GN, BU, WH Length 150–25,000 mm | 84 |
| LK-Series PA66HIR(S), BK Length 270–535 mm | 54 | Q-Series PA66, GN, RD, BK, NA, BU, YE Length 105–520 mm | 57 | T-Series PA66, GY, GN, RD, BK, NA, OG, SR, YE, BU, BN Length 83–1,325 mm | 42 |
| LPH-Series PA66, BK Length 175 mm | 72 | REL-Series PA66, BK, NA Length 180–250 mm | 79 | T-Series PA66HIR(S), BK Length 200–760 mm | 48 |
| LPH-Series PA66HIR(S), BK Length 265–355 mm | 72 | RELK-Series to 200N PA66, NA, BK Length 200–350 mm | 77 | T-Series PA66V0, WH Length 100–387 mm | 49 |
| LR55-Series PA66, GN, RD, BK, NA, BU, YE Length 195 mm | 80 | REZ-Series PA66, BK, FLPK, GN, OG Length 200–305 mm | 82 | X-Series PA66HIR(S) BK Length 100-715 mm | 61 |
| MCT-Series PA66MP, BU Length 100–387 mm | 65 | RLT-Series to 670N PA66, NA, BK Length 340–770 mm | 77 | | |

| Heat stabilised up to +105 °C | | | | | |
|--|------|--|------|--|--|
| Cable tie series and length | Page | Cable tie series and length | Page | | |
| CTT-Series PA66HS, BK Length 101.6–205 mm | 62 | OS-Series PA66HS, NA, BK Length 100–385 mm | 68 | | |
| DH-Series PA66HS, BK Length 210–395 mm | 63 | Q-Series PA66HS, NA, BK Length 105–520 mm | 60 | | |
| KR-Series PA66HS, NA, BK Length 210–426 mm | 74 | RLT-Series bis 670 N PA66HS, NA Length 770 mm | 77 | | |
| LK-Series PA66HS, BK, NA Length 270–535 mm | 54 | T-Series PA66HS, NA, BK Length 100–1,095 mm | 47 | | |
| LR55-Series PA66HS, BK Length 195 mm | 80 | V-Series PA66HS, NA Length 102.5–150 mm | 70 | | |

| High temperature +150 °C and higher | | | | |
|--|------|--|--|--|
| Cable tie series and length | Page | | | |
| DH-Series PA46, GY Length 210 mm | 63 | | | |
| T-Series PA46, NA, GY Length 100–390 mm | 50 | | | |
| V-Series PA46, GY Length 102.5–150 mm | 70 | | | |

Colours guide: Beige (BGE), Black (BK), Blue (BU), Brown (BN), Fluorescent Pink (FLPK), Green (GN), Grey (GY), Mint Green (MGN), Metal (ML), Mustard (MST), Natural (NA), Orange (OG), Red (RD), Russet (RUS), Silver (SR), White (WH), Yellow (YE)

Outdoor applications

| Standard temperature up to +85 °C | |
|--|------|
| Cable tie series and length | Page |
| EL-TY-Series POM, BK Length 15.8–53.3 mm | 76 |
| Robusto-Series PA11, BK Length 123–355 mm | 73 |
| RT250 PA66W, BK Length: 565.3 mm | 78 |
| T-Series PA11, BK Length 100–200 mm | 53 |

| High temperature +150 °C and higher | |
|--|------|
| Cable tie series and length | Page |
| MBT-FC-Series SS316, BK Length 362–1,245 mm | 90 |
| MBT-Series SS304, ML Length 127–838 mm | 86 |
| MBT-Series SS316, ML Length 127–838 mm | 87 |
| MBTXHD-/MBTUHD-Series SS316, ML Length 681–1,524 mm | 89 |
| MBTXHDFC-/MBTUHDFC-Series SS316, ML Length 681–1,524 mm | 92 |
| MLT-Series, MLTC-Series SS316, ML, BK Length 230–630 mm | 94 |
| MST-Series SS304, ML Length 207–700 mm | 93 |
| T-Series E/TFE, BU Length 100–387 mm | 51 |





| Standard temperature up to +85 °C | |
|--|------|
| Cable tie series and length | Page |
| DH-Series PA66W, BK Length 210–305 mm | 63 |
| KR-Series PA66W, BK Length 210–360 mm | 74 |
| LK-Series PA66W, BK Length 270–535 mm | 54 |
| Q-Series PA66W, BK Length 105–520 mm | 59 |
| REL-Series PA66W, BK Length 250 mm | 79 |
| RLT-Series to 670 N PA66W, BK Length 770 mm | 77 |
| T-Series PA66W, BK Length 100–1,325 mm | 44 |
| X-Series PA66W, BK Length 100–715 mm | 61 |

| Heat stabilised up to +105 °C | | | | | | |
|---|------|--|--|--|--|--|
| Cable tie series and length | Page | | | | | |
| RPE-Series PA66HSW , BK Length 275–350 mm | 71 | | | | | |

Colours Guide: Beige (BGE), Black (BK), Blue (BU), Brown (BN), Fluorescent Pink (FLPK), Green (GN), Grey (GY), Mint Green (MGN), Metal (ML), Mustard (MST), Natural (NA), Orange (OG), Red (RD), Russet (RUS), Silver (SR), White (WH), Yellow (YE)

Materials guide for cable ties series



Properties of Polyamide PA66

Polyamides are among the most important thermoplastic synthetic materials. Thermoplastics can be reshaped by heating as often as required without undergoing chemical decomposition or other negative changes. This makes polyamide ideal for processing via injection moulding into high quality products. About 90 % of cable ties and fixings from HellermannTyton are made from this material. Polyamide is also known under the brand name of Nylon[®], which was introduced by the Dupont company.

The inner structure of polyamide displays a partial order of polymer chains, i.e. polyamides are partially crystalline. Due to the tighter packing of the individual molecular chains polyamide only has limited transparency to light. The plastic is therefore described as translucent.

Each base unit contains 6 carbon atoms (C). Hence the name PA66.

The polyamide PA66 has many properties which are highly advantageous for HellermannTyton cable ties and fixings, such as:

- High strength, rigidity and hardness
- · High dimensional stability, even under the effect of heat
- High abrasion resistance

Having a wide range of polyamides and additives allows for an optimum adaptation of the properties of the finished product to suit the respective requirements.

The following PA66 variants are used for HellermannTyton products:

- Polyamide 6.6 standard (PA66) for temperature conditions of up to +85 $^{\circ}\mathrm{C}$
- Polyamide 6.6 Heat Stabilised (PA66HS) for temperature conditions of up to +105 $^{\circ}\mathrm{C}$
- Polyamide 6.6 UV Stabilised (PA66W) for exterior use
- Polyamide 6.6 Heat Stabilised and UV Stabilised (PA66HSW) for exterior use up to +105 $^\circ\mathrm{C}$
- Polyamide 6.6 Impact Resistant (PA66HIR) for high elasticity requirements
- Polyamide 6.6 Impact Resistant and Heat Stabilised (PA66HIRHS) for high elasticity requirements and temperatures up to +105 $^{\circ}{\rm C}$
- Polyamide 6.6 V0 for high standards of fire protection

Water content in polyamide

Polyamide is a hygroscopic material - this means that it absorbs and releases water. The mechanical properties are significantly affected by the water content – especially flexibility and minimum tensile strength.

In a standard atmosphere of 23 °C and 50 % relative humidity, the degree of water saturation of polyamide is around 2.5 %. For optimal processing of cable ties it is therefore important that the polyamide has a water content of approximately 2.5 % in a state of equilibrium.

The quality and functionality of the products are thus affected by the water content, therefore the correct storage of our products is crucial. Please read our separate instructions on storage.

Since humidity is so critical to the quality of the tie, the question arises: What happens if the tie is installed and the water content in the tie alters?

The water content determines the flexibility and strength of a tie. At a water content of approximately 2.5 % the tie has the ideal flexibility for installation. When the strap is being threaded through the head of the tie, the pawl must be flexible enough to "see-saw" over the serration of the strap without breaking. On the other hand, there must also be adequate material rigidity for the serrations of the pawl to engage with the serrations of the strap during the tying process so that a 'positive locking' action is achieved. After achieving the positive locking action the tie is in a static condition. Changes in the mechanical properties of the tie as a function of water content are insignificant during this status.

Properties of UV-stabilised Polyamide PA66W

The question constantly arises as to whether a black cable tie is suitable for use outside. This is dependant on the application of the tie, but in general the following statements can be made:

A black cable tie made of polyamide 6.6 standard (PA66) is only coloured black with a low proportion of carbon black. This is not sufficient to protect the material from damage caused by UV-radiation in the long term.

Products made from UV-stabilised polyamide PA66W are produced in accordance with ASTM standard D6779 with a higher carbon black percentage of approx. 2 %. So they resist UV-radiation in the European area for a considerably longer period than standard PA66.

This is clearly illustrated by the comparison of the two images:

After 500 hours of UV-radiation exposure

Polyamide 6.6 standard (PA66) dyed black:



The joint has been damaged throughout by UV-radiation.

Polyamide 6.6 UV-stabilised (PA66W) with approx. 2 % carbon black:



The joint has only been altered at isolated points by the UV-radiation.

For outdoor use we recommend our range of products made from UV-stabilised polyamide (PA66W).

A simple practical test: "the hammer test"

You can quickly determine whether or not a cable tie is UV stabilised. Strike with a hammer the tail of the strap on the tie. Hold up this flattened end to the light. Cable ties with a carbon black content of about 2 % allow no light through and look black throughout. Standard black ties, however, are transparent on the flattened end.

Properties of Polyamide PA11/PA12

Apart from PA66, there are polyamides which are less hygroscopic. These include PA11/PA12.

PA11/PA12 have the following advantages over PA66:

- Less hygroscopic saturation at 23 °C and 50 % relative humidity is approximately 1 %
- Better impact performance
- · Good weather resistance, even without a special additive

These three properties make PA11/PA12 ideal for use outdoors, in particularly when requirements may include impact resistance.

The water absorption of PA11/PA12 is not only less than that of PA66 but also slower. This is the requirement where the mechanical properties need to remain relatively unaffected by changing environmental conditions.

Properties of Polyamide PA46

Polyamide PA66, despite the use of additives, is not suitable for long-term use in temperatures of +105 °C. Due to considerably better heat resistance, polyamide PA46 is more suitable for temperatures of up to and exceeding 150 °C (depending on the length of time of operation).

Advantages of PA46 over PA66:

- · Greater rigidity, even at higher temperatures
- Higher operating temperature ranges of up to +150 °C (5,000 hours)
- Greater form stability at higher temperatures
- Excellent chemical resistance

Properties of Polyetheretherketone PEEK

PEEK, a linear aromatic polymer is semi-crystalline and is widely regarded as the highest performance thermoplastic material currently available. A summary of key physical properties is as follows:

High temperature performance

- Melting temperature of +343 °C
- Continuous use temperature of +240 °C (UL 746B)

Wear resistance

 Outstanding wear resistance over wide ranges of pressure, velocity, temperature and counter facial roughness

Chemical resistance

- Excellent resistance to a wide range of chemical environments, even at elevated temperatures
- The only common environment that dissolves it is concentrated sulfuric acid

Fire, smoke and toxicity

- Highly stable and requires no flame-retardant additives to achieve a UL94 V0 rating at 1.45 mm thickness
- The composition and inherent purity of the material results in extremely low smoke and toxic gas emission in fire situations

Hydrolysis resistance

- PEEK is not attacked by water or pressurized steam
- Components that are constructed from these materials retain a high level of mechanical properties when continuously conditioned in water at elevated temperatures and pressures

Radiation resistance

• Excellent radiation resistance due to the energetically stable chemical structure of PEEK

Purity

- PEEK materials are inherently pure with exceptionally low levels of ionic extractables
- Excellent out gassing characteristics

This makes PEEK the right choice for any high performance application in any industry with a clearly outstanding continuous use temperature of +240 °C.

Properties of Ethylene Tetrafluoroethylene (E/TFE) - Tefzel $^{\circ}$

E/TFE can be best described as a rugged thermoplastic with an outstanding balance of properties.

Mechanically, it is tough, has medium stiffness, impact and abrasion resistance.

E/TFE can perform successfully in applications where other materials are lacking in mechanical toughness, broad thermal capability, ability to meet severe environmental conditions.

Tefzel[®] is a registered trademark of DuPont.

Summary of key properties:

- No load continuous use temperature of +170 °C
- Weather resistant
- Inert to most solvents and chemicals
- Hydrolytically stable
- Substantially better resistance to radiation than other plastic materials

Chemical resistance of various plastics

These values are only rough guides. They should not be regarded as a material specification and are no substitute for a suitability test. Please see our technical datasheets for further details.

| O = not resistant | = partly resistant = not resistant substitute for a suitability test. Please see our technical datasheets for further details. | | | | | | | | | | |
|--|---|---------------|-------------|------------------|-------------|-------------|------------------|-------------|---------------------------------|-------------|-------------|
| | Conc. (%) | Temp. (°C) | PA66 | PA46 | PA12 | PA11 | POM | PP | E/TFE (Tefzel [®]) | TPU | PEEK |
| Acetaldehyde, liquid | 100 | 23 °C | | 0 | | | | \triangle | . ▲ . | 0 | |
| Acetowne | 100 | 23 °C | | | | | | | | 0 | |
| Allyl chloride | 100 | 23 °C | | | | | | | | 0 | |
| Aniline | 100 | 23 °C | | \triangle | \triangle | | \bigtriangleup | | | 0 | |
| Aromatic compounds | | | | | | | | 0 | | \triangle | |
| Benzaldehyde | | 23 °C | | \bigtriangleup | | | | | | 0 | |
| Benzine/Benzol mix | | 23 °C | | | | | | \triangle | | \triangle | |
| Benzol | 100 | 23 °C | | | | | \triangle | \triangle | | \triangle | |
| Bromine | | 23 °C | | 0 | 0 | 0 | | 0 | | 0 | |
| Carbon bisulphide | 100 | 23 °C | | 0 | | 0 | | 0 | | 0 | |
| Carbon tetrachloride | 100 | 23 °C | | | \triangle | 0 | | \triangle | | 0 | |
| CFC | | | | | | | | \triangle | | | |
| Chlorine, gaesous | 100 | 23 °C | 0 | | | 0 | | 0 | | \triangle | |
| Chlorine, liquefied | 100 | 23 °C | 0 | 0 | | 0 | | 0 | | | |
| Chlorobenzene | 100 | 23 °C | | | 0 | \triangle | \triangle | | | | |
| Chloroform | 100 | 23 °C | | 0 | 0 | | 0 | \triangle | | 0 | |
| Chromic acid 10 % | 10 | 23 °C | 0 | 0 | J | 0 | 0 | | | 0 | |
| Chromic acid 20 % | 20 | 20 °C | 0 | 0 | | 0 | 0 | | | 0 | |
| Chromic acid 50 % | 50 | 20 °C | 0 | 0 | | 0 | 0 | | | 0 | |
| Cyclohexane | 100 | 20°C | | 5 | | | | | | | |
| Cyclohexanone | 100 | 23 °C | | | | | | | | - | |
| Decahydronaphthlene | 100 | 23 °C | | | | | | | | | |
| Diethyl ether | 100 | 23 °C | | | | | | | | | |
| Di-isopropyl ether | 100 | 23 °C | | | | | | | - | | |
| | 100 | 23°C | | | | | | | • | | |
| Dimethyl formamide | 100 | | | | | | | | | 0 | |
| Dioctyl phthalate | 100 | 23 °C | | | | | | | | 0 | |
| Engine oil | 100 | 23 °C | 0 | | | | | | | | |
| Ethanonic acid 10 % | 10 | 20 °C | 0 | \triangle | \triangle | | | | | | |
| Ethanonic acid 100 % | 100 | 23 °C | 0 | 0 | | | \triangle | | | | |
| Ethanonic acid 25 % | 25 | 20 °C | 0 | | | | \triangle | | | | |
| Ethanonic acid 50 % | 50 | 20 °C | 0 | | | | \triangle | | | | |
| Ethyl acetate | 100 | 23 °C | | | | | \triangle | \triangle | | \triangle | |
| Formic acid | 98 | 23 °C | 0 | | 0 | | 0 | | | 0 | \triangle |
| Freon | | 23 °C | | | | | | | | | |
| Heptane | 100 | 23 °C | | | | | | | | | |
| Hydrogen peroxide 10 % | 10 | 20 °C | \triangle | | | | | | | \triangle | |
| Hydrogen peroxide 30 % | 30 | 23 °C | 0 | 0 | | | | | | \triangle | |
| Ketone | | | | | | | | | | | |
| Methyisobutylketone | 100 | 23 °C | | | | | | | | | |
| Methylethylketone | 100 | 23 °C | | | | | \triangle | | | 0 | |
| Nitric acid 10 % | 10 | 20 °C | 0 | | 0 | 0 | 0 | | | 0 | |
| Nitric acid 50 % | 50 | 23 °C | 0 | | 0 | 0 | 0 | 0 | | 0 | 0 |
| Nitrobenzene | 100 | 23 °C | | \bigtriangleup | | | | | | 0 | |
| Ordinary petrol | | 23 °C | | | | | | | | | |
| Paraffin oil | | 23 °C | | | | | | | | | |
| Perchloroethylene | | 23 °C | | | | \triangle | | \triangle | | 0 | |
| Petroleum | | 23 °C | | | | | | | | | |
| Phenol | 65 | 23 °C | 0 | 0 | 0 | 0 | 0 | | | 0 | |
| Potass. Permanganate | 6 | 23 °C | 0 | 0 | 0 | 0 | | | | \triangle | |
| Salad oil | | 23 °C | | \triangle | | | | | | | |
| Silicon oil | | 23 °C | | | | | | | | | |
| Sulphuric acid 10 % | 10 | 20 °C | 0 | _ | \triangle | | 0 | | | 0 | \triangle |
| Sulphuric acid 50 % | 50 | 20 °C | 0 | | | _ | 0 | | | 0 | 0 |
| Sulphuric acid 96 % | 96 | 23 °C | 0 | 0 | | | 0 | 0 | | 0 | 0 |
| Toluol | 100 | 23 °C | | J | | | | | | 0 | |
| Trichlorethylene | 100 | 23 °C | | \triangle | \triangle | \triangle | \triangle | \triangle | | 0 | |
| Water, cold | 100 | 25 C | | | | | | | - | | |
| Water, hot | | | | | - | | | | | | |
| Xylene | 100 | 23 °C | | | | | | | | 0 | |
| Tefzel [®] is a registered trademark of DuPont. | 100 | 23 C | | - | - | | | | _ | 0 | |

Tefzel[®] is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel[®]-Tie. In additon to Tefzel[®] from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers.

What does flammability UL94 mean?

UL is the shortcut for Underwriters Laboratories. This is an independent organisation in the United States to control and certificate product safety. Beside a lot of product standards UL also specified the flammability test UL94 for plastic materials. UL94 is a material burning test done on defined specimen of the raw material but not a test on final products. UL94 differs between a horizontal burning test UL94 HB (picture 1) and a vertical burning test UL94 V (picture 2). For the vertical test UL94 V there are three flame ratings defined: UL94 V0, UL94 V1 and UL94 V2.

In all these burning tests an open flame is applied for a certain time to the specimen. As the burning behaviour also depends on the thickness of the material it is important to classify the material not only according to HB, V0, V1 or V2 but also to mention the thickness of specimen.



• according to V0, V1 or V2

Following table is a summary of test procedures and requirements of the UL94 classification.

| | Horizontal | Test UL94 | v | ertical Test UL94 | 4 |
|--|----------------|----------------|--------------|-------------------|---------------|
| Classification | H | IB | V0 | V1 | V2 |
| Number of specimen | 3 | 3 | 5 | 5 | 5 |
| Thickness of specimen | < 3 mm | 3 to 13 mm | | up to max. 13 mm | |
| 1st flame application | 30 sec. | 30 sec. | 10 sec. | 10 sec. | 10 sec. |
| 2nd flame application | - | - | 10 sec. | 10 sec. | 10 sec. |
| Burning rate | max. 75 mm/min | max. 40 mm/min | - | - | - |
| Afterflame time after 1st flame application for each individual specimen | - | - | max. 10 sec. | max. 30 sec. | max. 30 sec. |
| Afterflame time after 2nd flame application for each individual specimen | - | - | max. 30 sec. | max. 60 sec. | max. 60 sec. |
| Total afterflame time for all 5 specimen after 1st and 2nd flame application | - | - | max. 50 sec. | max. 250 sec. | max. 250 sec. |
| Afterflame or afterglow of any specimen up to its end allowed | yes | yes | no | no | no |
| Cotton indicator ignited by flaming particles or drops allowed | - | - | no | no | yes |

Flammability behaviour on the following product pages are always related to the raw material burning rate according to UL94. Most commonly used raw materials for cable ties and fixing elements are Polyamide 6.6 standard, Polyamide 6.6 weather resistant and Polyamide 6.6 heat stabilised. These materials normally fulfill UL94 V2 requirement.

HellermannTyton cable ties conform to IEC62275 standard

HellermannTyton is a global manufacturer of cable management products who specialise in high performance fastening, connecting, routing, protecting and identifying solutions to diverse markets. The extensive product portfolio reflects our long-standing industry expertise. HellermannTyton has provided outstanding product quality and has met the high requirements of various industries for 80 years.

Cable ties from the inside serrated (T-Series, Q-Series), the outside serrated (OS-Series) as well as our metal cable ties (MBT-Series and MST-Series) have been tested in accordance with the international cable tie standard IEC 62275 (Cable management systems - Cable ties for electrical installations).

Cable ties manufactured from the standard material Polyamide 6.6 (PA66), heat-stabilised Polyamide 6.6 (PA66HS), UV-stabilised Polyamide 6.6 (PA66W) and Stainless Steel grades SS304 and SS316 have been successfully tested and approved.

The standard includes the following tests:

- Installation test on minimum and maximum specified bundle diameters
- · Installation test at minimum specified installation temperature
- · Impact test at minimum specified operating temperature
- Minimum tensile strength (in the standard this is described as the loop test)
- Loop tensile test after heat ageing at the specified operating temperature
- Loop tensile test after heat cycling at the minimum and maximum operating temperatures
- Loop tensile test after humidity and heat cycling at the minimum and maximum operating temperatures
- Contribution to the spread of fire on both the actual product and test (tissue paper) substrate
- Loop tensile and visual tests after exposure to ultraviolet light radiation for PA66W ties
- · Resistance to corrosion (dependent on material)
- · Loop tensile test after vibration test for metallic cable ties

The following cable ties have been tested and certified

- T-Series inside-serrated in PA66-NA, PA66-BK, PA66HS-NA, PA66HS-BK, PA66W
- OS-Series outside-serrated in PA66-NA, PA66-BK, PA66HS-NA, PA66HS-BK, PA66W
- Q-Series inside-serrated in PA66-NA, PA66-BK, coloured PA66, PA66HS-NA, PA66HS-BK
- MBT-Series, uncoated in SS316 material grade
- MST-Seres, uncoated in SS304 material grade



Material specification please see page 26.



Profit from the knowledge and experience of HellermannTyton and the high-quality of our cable management solutions for your particular industry and market.

Determination of minimum tensile strength

The minimum tensile strength is a critical selection criteria for cable ties. It expresses how much loading a cable tie can bear.

The test procedure to determine minimum tensile strength:

- · Stabilisation to achieve equilibrium moisture content
- Set-up of the tensile test fixture
- · Application of the tie on a split mandrel fixture
- Test speed

Explanation of minimum tensile strengths

What does a minimum tensile strength of 225 N (50 lbs) mean? To explain what this value means, the mass with which the tie can be loaded is calculated. The unit of measurement of the mass is stated in kg. To do so, the unit Newton (N) is shown in the following way:



The formula for calculating the mass is:

Mass = minimum tensile strength/acceleration due to gravity

The acceleration due to gravity is 9.81 m/s²

Mass = minimum tensile strength/[kg * m/s²]/9.81 [m/s²]

At a minimum tensile strength of 225 N (50 lbs) the mass is:

Mass = 225 [kg * m/s²]/9.81 [m/s²]

The units $\ensuremath{\mathsf{m}}\xspace{\mathsf{s}}\x$

Mass = 225/9.81 kg = 22.9 kg

Therefore, a T50R cable tie with a minimum tensile strength of 225 N (50 lbs) can be loaded with 22.9 kg.

Conversely, with the required loading capacity the minimum tensile strength can be calculated by a mass:

Min. tensile strength = mass * 9.81[m/s²]

If the tie is to be loaded with, for example, 53 kg this produces:

Minimum tensile strength = [53 kg] * 9.81 [m/s²] = 520 N

In order to withstand a load of 53 kg, the tie must therefore have a minimum tensile strength of 520 N. In this case, select our T120R with a minimum tensile strength of 535 N (120 lbs).







The cable tie is fixed onto a split

mandrel fixture with the suitable cable tie application tool.



a defined speed.

The mandrel is opened at

The loading at which the cable tie fails is determined. This value is stated in Newtons (N) and is recorded through a computer programme reading the tests. This programme produces graphs as outlined below.

300 900 100 0 5 10 15 20 201 test samples

Typical measurement protocol of a T50R made of PA66 with a minimum tensile strength of 225 N.

Introduction to the main locking technologies used for cable ties

HellermannTyton offers a wide range of cable ties for use in different applications. By constantly refining our products and satisfying the ever-changing demands of the market, various locking technologies have been developed. Below you will find a brief overview of three most common locking technologies and their characteristics.

Cable ties with plastic pawls

This technology is used in 90% of all polyamide (PA) cable ties applied by HellermannTyton. In order to cover a variety of applications, there are different variants of this system, for example: releasable versions, in-line versions, open head versions.

These are one-piece cable ties, the pawl is moulded as an integral part of the cable tie, thereby building in inherent strengths.

Locking technology

Positive locking is achieved by engaging the pawl with the strap serrations. This allows the cable tie to perform to the published minimum tensile strength, that is the loading that the cable tie can hold under application.

KR series cable ties

This cable tie is distinguished by its smooth strap and unique locking mechanism. With the KR series the chamfered head achieves an especially firm fit around the bundled material.

Locking technology

This locking technology takes advantage of the excellent deformation properties of polyamide (PA). Here, the glass fibre-reinforced locking pin (yellow) is forced into the strap by the use of an application tool - either the KR6/8 or KR8PNSE. The strap is deformed into the head of the tie by the application of the pin, thereby locking the cable tie in position and allowing the bundling of heavy loads.

MBT series of cable ties

Made of stainless steel grade 304 or 316, the MBT range of cable ties have no serrations on the strap and are threaded parallel through the head, gliding under a metal ball-bearing locking mechanism. By using an appropriate application tool like our MK9SST the cable tie is tensioned and the strap cut to a flush finish.

Locking technology

The strap is locked into the head by means of the small ball-bearing. The ball locks into the small end of the wedged shaped housing, forming a positive locking with the strap.

This cable tie is not suitable for rigid objects. Retraction of the ball-bearing (see drawing) is required into the small end of the wedged shaped housing to allow for a positive locking of the strap and also having a flush cut off at the end of the strap. This retraction cannot be ensured when bundling around inflexible materials such as metal pipes. The force by cutting the cable tie might end up in a rebound that could allow the ball moving back slightly. For rigid objects we therefore recommend a protective channel (LFPC) to be laid between strap and bundled object in order to compensate the rebound. The MBT locking technology allows for minimum tensile strengths of up to 7,000 Newton.



Locking technology of an outside serrated tie.





The unlocked head of a KR-tie.

The cable tie (red) is locked into place with the pin.





Introduction to the main locking technologies used for cable ties

MST series cable ties

MST cable ties are made of stainless steel 304. They offer similar features to MBT products but with a different head design and closure. Where space is tight the flat head allows for space savings. MST cable ties are not only weather-resistant but also highly resistant to heat, fire, and radiation. It can be used in challenging environments including indoor, outdoor and underground installations.

Locking technology

The punch-locking mechanism keeps the lock tight even in challenging areas with very high vibration such as on trains. Our MST application tools (MST6/MST9) have been specifically developed for tightening and cutting MST cable ties. This tool is mandatory to apply and lock these stainless steel cable ties properly.



Punch-locking mechanism of the MST-Series.

Optimum storage conditions for cable ties made of Polyamide (PA)

HellermannTyton cable ties, fastenings and fixings are manufactured from high-quality polyamide (PA). This industrial synthetic material is mainly processed using injection moulding, but can also be extruded.

Polyamide is a hygroscopic material. This means that the material absorbs and loses moisture. For optimum handling of cable ties it is



- 1. Once opened you should use the ties as quickly as possible.
- 2. Always store ties in the sealed plastic bag.

important that the material is in a condition of equilibrium with a water content of approximately 2.5%.

The packaging used by HellermannTyton ensures that the water content in the material remains constant. Therefore, it is important to store the products in their original packaging to preserve the quality of the ties.



°C

- 5. Store the product away from direct sources of heat.
- 6. Avoid contact with heat: for example, do not place on the radiators.



- Do not expose the product to direct sunlight.
- Do not store the product in sunlight; for example, on the windowsill.

 7. The ideal storage conditions are those of the central European standard climate:
 23 °C



T-Series in PA66 natural and black

T-Series cable ties for bundling and securing of cables, pipes and hoses. These cable ties can be used for nearly all kind of applications.

Features and benefits

- Available in a wide range of materials and sizes
- · High tensile strength with very low insertion force
- Only high quality plastic is used meeting recycling targets
- Inside serrated cable ties for a strong hold onto bundles
- Ergonomic bent tail offers quick and simple installation
- Easy application either manually or with an application tool

L

Standard T-Series cable ties - for almost any type of application (PA66).

T-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------|-------------|
| T18S | 2.3 | 83.0 | 16.0 | 80 | PA66 | Natural (NA) | 1,000 pcs. | 2;4-6 | 111-02809 |
| 7400 | 2.5 | 100.0 | 22.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 111-01919 |
| T18R | 2.5 | 100.0 | 22.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 111-01910 |
| 7401 | 2.5 | 145.0 | 35.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 111-02370 |
| T18I | 2.5 | 145.0 | 35.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 111-02319 |
| T 401 | 2.5 | 205.0 | 55.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 111-02119 |
| T18L | 2.5 | 205.0 | 55.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 111-02110 |
| TOP | 2.8 | 240.0 | 65.0 | 110 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 111-02500 |
| T25L | 2.8 | 240.0 | 65.0 | 110 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 111-02519 |
| T25LL | 2.8 | 330.0 | 95.0 | 110 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 111-02619 |
| - | 3.5 | 150.0 | 35.0 | 135 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 111-03219 |
| T30R | 3.5 | 150.0 | 35.0 | 135 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 111-03210 |
| | 3.5 | 198.0 | 50.0 | 135 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 111-03419 |
| T30L | 3.5 | 198.0 | 50.0 | 135 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 111-03410 |
| | 3.5 | 290.0 | 80.0 | 135 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 111-03500 |
| T30LL | 3.5 | 290.0 | 80.0 | 135 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 111-03529 |
| T40R | 4.0 | 175.0 | 40.0 | 180 | PA66 | Natural (NA) | 100 pcs. | 2;4-8 | 111-01626 |
| TEOC | 4.6 | 150.0 | 35.0 | 225 | PA66 | Black (BK) | 100 pcs. | 2-10 | 111-05810 |
| T50S | 4.6 | 150.0 | 35.0 | 225 | PA66 | Natural (NA) | 100 pcs. | 2-10 | 111-05819 |
| TEAD | 4.6 | 200.0 | 50.0 | 225 | PA66 | Black (BK) | 100 pcs. | 2-10 | 111-05000 |
| T50R | 4.6 | 200.0 | 50.0 | 225 | PA66 | Natural (NA) | 100 pcs. | 2-10 | 111-05013 |
| | 4.6 | 245.0 | 65.0 | 225 | PA66 | Natural (NA) | 100 pcs. | 2-10 | 111-06201 |
| T50M | 4.6 | 245.0 | 65.0 | 225 | PA66 | Black (BK) | 100 pcs. | 2-10 | 111-06200 |
| TEOL | 4.6 | 300.0 | 85.0 | 225 | PA66 | Black (BK) | 100 pcs. | 2-10 | 111-05210 |
| T50I | 4.6 | 300.0 | 85.0 | 225 | PA66 | Natural (NA) | 100 pcs. | 2-10 | 111-05219 |
| | 4.6 | 390.0 | 110.0 | 225 | PA66 | Natural (NA) | 100 pcs. | 2-10 | 111-05409 |
| T50L | 4.6 | 390.0 | 110.0 | 225 | PA66 | Black (BK) | 100 pcs. | 2-10 | 111-05400 |
| T50LL | 4.6 | 445.0 | 130.0 | 225 | PA66 | Black (BK) | 500 pcs. | 2-10 | 111-06002 |
| - | 4.7 | 210.0 | 55.0 | 355 | PA66 | Natural (NA) | 100 pcs. | 2-12 | 111-05019 |
| T80R | 4.7 | 210.0 | 55.0 | 355 | PA66 | Black (BK) | 100 pcs. | 2-12 | 111-08010 |

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All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



For product specific approvals and specifications please refer to the Appendix.

T-Series in PA66 natural and black

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | У N | Material | Colour | Pack Cont. | Tools |
|----------|--------------|---------------|------------------|--------|----------|--------------|---------------|--------|
| | 4.7 | 300.0 | 85.0 | 355 | PA66 | Natural (NA) | 100 pcs. | 2-12 |
| T80I | 4.7 | 300.0 | 85.0 | 355 | PA66 | Black (BK) | 100 pcs. | 2-12 |
| | 4.7 | 390.0 | 110.0 | 355 | PA66 | Black (BK) | 100 pcs. | 2-12 |
| T80L | 4.7 | 390.0 | 110.0 | 355 | PA66 | Natural (NA) | 100 pcs. | 2-12 |
| T120S | 7.6 | 225.0 | 55.0 | 535 | PA66 | Natural (NA) | 50 pcs. | 3;9-12 |
| | 7.6 | 300.0 | 80.0 | 535 | PA66 | Black (BK) | 100 pcs. | 3;9-12 |
| T120I | 7.6 | 300.0 | 80.0 | 535 | PA66 | Natural (NA) | 100 pcs. | 3;9-12 |
| | 7.6 | 365.0 | 100.0 | 670 | PA66 | Black (BK) | 100 pcs. | 3;9-12 |
| T150R | 7.6 | 365.0 | 100.0 | 670 | PA66 | Natural (NA) | 100 pcs. | 3;9-12 |
| | 7.6 | 387.0 | 100.0 | 535 | PA66 | Black (BK) | 100 pcs. | 3;9-12 |
| T120R(E) | 7.6 | 387.0 | 100.0 | 535 | PA66 | Natural (NA) | 100 pcs. | 3;9-12 |
| | 7.6 | 460.0 | 125.0 | 535 | PA66 | Black (BK) | 100 pcs. | 3;9-12 |
| T120M | 7.6 | 460.0 | 125.0 | 535 | PA66 | Natural (NA) | 100 pcs. | 3;9-12 |
| | 7.6 | 600.0 | 175.0 | 535 | PA66 | Black (BK) | 50 pcs. | 3;9-12 |
| T120XM | 7.6 | 600.0 | 175.0 | 535 | PA66 | Natural (NA) | 50 pcs. | 3;9-12 |
| | 7.6 | 760.0 | 225.0 | 535 | PA66 | Black (BK) | 50 pcs. | 3;9-12 |
| T120L | 7.6 | 760.0 | 225.0 | 535 | PA66 | Natural (NA) | 50 pcs. | 3;9-12 |
| | 8.8 | 820.0 | 245.0 | 780 | PA66 | Black (BK) | 25 pcs. | 9-12 |
| T150L | 8.8 | 820.0 | 245.0 | 780 | PA66 | Natural (NA) | 25 pcs. | 9-12 |
| | 8.9 | 530.0 | 150.0 | 780 | PA66 | Black (BK) | 25 pcs. | 9-12 |
| T150M | 8.9 | 530.0 | 150.0 | 780 | PA66 | Natural (NA) | 25 pcs. | 9-12 |
| | 8.9 | 1,095.0 | 330.0 | 780 | PA66 | Black (BK) | 25 pcs. | 9-12 |
| T150XL | 8.9 | 1,095.0 | 330.0 | 780 | PA66 | Natural (NA) | 25 pcs. | 9-12 |
| | 8.9 | 1,325.0 | 405.0 | 780 | PA66 | Black (BK) | 25 pcs. | 9-12 |
| T150XLL | 8.9 | 1,325.0 | 405.0 | 780 | PA66 | Natural (NA) | 25 pcs. | 9-12 |
| T250S | 12.5 | 225.0 | 55.0 | 1,115 | PA66 | Natural (NA) | 100 pcs. | 11-12 |
| T250X | 12.5 | 370.0 | 100.0 | 1,115 | PA66 | Black (BK) | 100 pcs. | 11-12 |
| T250R | 12.5 | 515.0 | 125.0 | 1,115 | PA66 | Natural (NA) | 25 pcs. | 11-12 |
| | 12.5 | 565.3 | 150.0 | 1,115 | PA66 | Black (BK) | 25 pcs. | 11-12 |
| T250M | 12.5 | 565.3 | 150.0 | 1,115 | PA66 | Natural (NA) | 25 pcs. | 11-12 |
| T250I | 12.5 | 730.0 | 203.0 | 1,115 | PA66 | Natural (NA) | 25 pcs. | 11-12 |
| T250L | 12.5 | 880.0 | 254.0 | 1,115 | PA66 | Black (BK) | 25 pcs. | 11-12 |
| | 12.5 | 1,030.0 | 305.0 | 1,115 | PA66 | Black (BK) | 25 pcs. | 11-12 |
| T250XL | 12.5 | 1,030.0 | 305.0 | 1,115 | PA66 | Natural (NA) | 25 pcs. | 11-12 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | | |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.

Article-No. 111-08229 111-08210 111-05410 111-05419 111-12829 111-12210 111-12219 111-14810 111-14819 111-12010 111-12019 111-12610 111-12619 111-12701 111-12704 111-12403 111-12429 111-15405 111-15419 111-00124 111-15619 111-15500 111-15519 111-15300 111-15304 111-24705 111-25102 111-24803 111-25001 111-25002 111-25219 111-24601 111-25200 111-00466

T-Series in PA66 coloured

Coloured T-Series cable ties are ideally suited for marking purposes. They can be used to secure and/or identify different kind of bundles at the same time.

Features and benefits

- Avaliable in a wide range of colours and sizes
- Strong cable tie to permanently mark or identify bundles
- Easy application either manually or with a processing tool
- Coloured T-Series cable ties provide an inside serration



T-Series cable ties - ideally suited for colour coding.

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T-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Я N | Material | Colour | Pack Cont. | Tools | Article-No. |
|------|--------------|---------------|------------------|--------|----------|-------------|---------------|-------|-------------|
| | 2.5 | 100.0 | 22.0 | 80 | PA66 | Blue (BU) | 100 pcs. | 2;4-6 | 116-01816 |
| T10D | 2.5 | 100.0 | 22.0 | 80 | PA66 | Green (GN) | 100 pcs. | 2;4-6 | 116-01815 |
| T18R | 2.5 | 100.0 | 22.0 | 80 | PA66 | Red (RD) | 100 pcs. | 2;4-6 | 116-01812 |
| | 2.5 | 100.0 | 22.0 | 80 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6 | 116-01814 |
| | 3.5 | 150.0 | 35.0 | 135 | PA66 | Blue (BU) | 100 pcs. | 2;4-6 | 111-03008 |
| TOOD | 3.5 | 150.0 | 35.0 | 135 | PA66 | Green (GN) | 100 pcs. | 2;4-6 | 111-03014 |
| T30R | 3.5 | 150.0 | 35.0 | 135 | PA66 | Red (RD) | 100 pcs. | 2;4-6 | 111-03004 |
| | 3.5 | 150.0 | 35.0 | 135 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6 | 111-03006 |
| | 4.6 | 200.0 | 50.0 | 225 | PA66 | Blue (BU) | 100 pcs. | 2-10 | 111-04800 |
| TEAD | 4.6 | 200.0 | 50.0 | 225 | PA66 | Green (GN) | 100 pcs. | 2-10 | 111-04801 |
| T50R | 4.6 | 200.0 | 50.0 | 225 | PA66 | Red (RD) | 100 pcs. | 2-10 | 111-04804 |
| | 4.6 | 200.0 | 50.0 | 225 | PA66 | Yellow (YE) | 100 pcs. | 2-10 | 111-04805 |
| | 4.6 | 390.0 | 110.0 | 225 | PA66 | Blue (BU) | 100 pcs. | 2-10 | 111-05404 |
| T50L | 4.6 | 390.0 | 110.0 | 225 | PA66 | Green (GN) | 100 pcs. | 2-10 | 111-05402 |
| ISUL | 4.6 | 390.0 | 110.0 | 225 | PA66 | Red (RD) | 100 pcs. | 2-10 | 111-05406 |
| | 4.6 | 390.0 | 110.0 | 225 | PA66 | Yellow (YE) | 100 pcs. | 2-10 | 111-05428 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



T-Series in PA66 coloured

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Material specification please see page 26.

T-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ר ווא ווא | Material | Colour | Pack Cont. | Tools | Article-No. |
|----------|--------------|---------------|------------------|-----------------|----------|-------------|---------------|--------|-------------|
| | 4.7 | 210.0 | 55.0 | 355 | PA66 | Blue (BU) | 100 pcs. | 2-12 | 116-08016 |
| TOOD | 4.7 | 210.0 | 55.0 | 355 | PA66 | Green (GN) | 100 pcs. | 2-12 | 116-08015 |
| T80R | 4.7 | 210.0 | 55.0 | 355 | PA66 | Red (RD) | 100 pcs. | 2-12 | 116-08012 |
| | 4.7 | 210.0 | 55.0 | 355 | PA66 | Yellow (YE) | 100 pcs. | 2-12 | 116-08014 |
| | 4.7 | 390.0 | 110.0 | 355 | PA66 | Blue (BU) | 100 pcs. | 2-12 | 116-05416 |
| T80L | 4.7 | 390.0 | 110.0 | 355 | PA66 | Green (GN) | 100 pcs. | 2-12 | 116-05415 |
| TOUL | 4.7 | 390.0 | 110.0 | 355 | PA66 | Red (RD) | 100 pcs. | 2-12 | 116-05412 |
| | 4.7 | 390.0 | 110.0 | 355 | PA66 | Yellow (YE) | 100 pcs. | 2-12 | 116-05414 |
| | 7.6 | 365.0 | 100.0 | 670 | PA66 | Blue (BU) | 100 pcs. | 3;9-12 | 116-15016 |
| T150R(H) | 7.6 | 365.0 | 100.0 | 670 | PA66 | Red (RD) | 100 pcs. | 3;9-12 | 116-15012 |
| | 7.6 | 365.0 | 100.0 | 670 | PA66 | Yellow (YE) | 100 pcs. | 3;9-12 | 116-15014 |
| T120B(E) | 7.6 | 387.0 | 100.0 | 535 | PA66 | Green (GN) | 100 pcs. | 3;9-12 | 111-12001 |
| T120R(E) | 7.6 | 387.0 | 100.0 | 535 | PA66 | Red (RD) | 100 pcs. | 3;9-12 | 111-12002 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.





Cable Ties for outdoor use (UV-resistant) T-Series in PA66W black

These inside serrated cable ties are made of UV resistant Polyamide 6.6 (PA66W) and thus suitable for outdoor applications. UV stabilised cable ties resist UV radiation for a considerably longer period compared to standard PA66 cable ties. They can easily be used for bundling and securing cables, pipes and hoses especially in outdoor areas.

Features and benefits

- UV resistant black cable tie available in a wide range of sizes
- Made from 100 % high quality plastic, allows for good recycling
- Inside serration for a strong hold onto bundles
- Easy application either manually or with a processing tool
- · Simply to insert due to bent tail



UV-resistant T-Series cable ties (PA66W).



T250-series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N | Material | Colour | Pack Cont. | Tools | Article-No. |
|----------|--------------|---------------|------------------|--------|----------|------------|---------------|--------|-------------|
| T18R | 2.5 | 100.0 | 22.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 111-01960 |
| T18I | 2.5 | 145.0 | 35.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 111-02360 |
| T18L | 2.5 | 205.0 | 55.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 111-02160 |
| T25LL | 2.8 | 330.0 | 95.0 | 110 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 111-02660 |
| T30R | 3.5 | 150.0 | 35.0 | 135 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 111-03260 |
| T30L | 3.5 | 198.0 | 50.0 | 135 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 111-03460 |
| T30LL | 3.5 | 290.0 | 80.0 | 135 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 111-03570 |
| T40R | 4.0 | 175.0 | 40.0 | 180 | PA66W | Black (BK) | 100 pcs. | 2;4-8 | 111-01625 |
| T50S | 4.6 | 150.0 | 35.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2-10 | 111-05860 |
| T50R | 4.6 | 200.0 | 50.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2-10 | 111-04889 |
| T50M | 4.6 | 245.0 | 65.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2-10 | 111-06206 |
| T50I | 4.6 | 300.0 | 85.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2-10 | 111-05260 |
| T50L | 4.6 | 390.0 | 110.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2-10 | 111-05440 |
| T50LL | 4.6 | 445.0 | 130.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2-10 | 111-06000 |
| T80R | 4.7 | 210.0 | 55.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 111-05060 |
| T80I | 4.7 | 300.0 | 85.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 111-08290 |
| T80L | 4.7 | 390.0 | 110.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 111-05460 |
| T1205 | 7.6 | 225.0 | 55.0 | 535 | PA66W | Black (BK) | 50 pcs. | 3;9-12 | 111-12830 |
| T120I | 7.6 | 300.0 | 80.0 | 535 | PA66W | Black (BK) | 100 pcs. | 3;9-12 | 111-12230 |
| T150R(H) | 7.6 | 365.0 | 100.0 | 670 | PA66W | Black (BK) | 100 pcs. | 3;9-12 | 111-14860 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



For product specific approvals and specifications please refer to the Appendix.

Date of issue: 10/2017

Cable Ties for outdoor use (UV-resistant)



T250-series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Tools | Article-No. |
|----------|--------------|---------------|------------------|--------|-------------|------------|---------------|--------|-------------|
| T120R(E) | 7.6 | 387.0 | 100.0 | 535 | PA66W | Black (BK) | 100 pcs. | 3;9-12 | 111-12060 |
| T120M | 7.6 | 460.0 | 125.0 | 535 | PA66W | Black (BK) | 100 pcs. | 3;9-12 | 111-12660 |
| T120L | 7.6 | 760.0 | 225.0 | 535 | PA66W | Black (BK) | 50 pcs. | 3;9-12 | 111-12430 |
| T150L | 8.8 | 820.0 | 245.0 | 780 | PA66W | Black (BK) | 25 pcs. | 9-12 | 111-15460 |
| T150M | 8.9 | 530.0 | 150.0 | 780 | PA66W | Black (BK) | 25 pcs. | 9-12 | 111-15660 |
| T150XL | 8.9 | 1,095.0 | 330.0 | 780 | PA66W | Black (BK) | 25 pcs. | 9-12 | 111-15502 |
| T150XLL | 8.9 | 1,325.0 | 405.0 | 780 | PA66W | Black (BK) | 25 pcs. | 9-12 | 111-15305 |
| T250R | 12.5 | 515.0 | 125.0 | 1,115 | PA66HIRHSUV | Black (BK) | 25 pcs. | 11-12 | 111-24805 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.





Cable Ties for temperatures up to +105 °C (heat stabilised)

T-Series in PA66HS natural and black

These inside serrated cable ties are made from heat stabilised Polyamide 6.6 (PA66HS). They can be applied in environments with continuous temperatures up to +105 °C. T-Series cable ties can be easily installed by hand or using an application tool to ensure consistency of installation.

Features and benefits

on request

- Heat stabilised cable ties (PA66HS) for temperatures up to +105 °C
- · Available in a wide range of sizes to cover almost every application
- Inside serration provides a strong hold onto bundles
- Manual and/or pneumatic tools available for greater process reliability
- Commonly offered in natural and black, other colours available



Heat stabilised T-Series cable ties up to +105 °C.

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T-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر الا | Material | Colour | Pack Cont. | Tools | Article-No. |
|---------------|--------------|---------------|------------------|----------|----------|--------------|---------------|-------|-------------|
| T18R | 2.5 | 100.0 | 22.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-01950 |
| TIOK | 2.5 | 100.0 | 22.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-01959 |
| T 401 | 2.5 | 145.0 | 35.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-02358 |
| T18I | 2.5 | 145.0 | 35.0 | 80 | PA66HS | Natural (NA) | 1,000 pcs. | 2;4-6 | 111-02359 |
| T 401 | 2.5 | 205.0 | 55.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-02049 |
| T18L | 2.5 | 205.0 | 55.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-02159 |
| T 200 | 3.5 | 150.0 | 35.0 | 135 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-03259 |
| T30R | 3.5 | 150.0 | 35.0 | 135 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-03050 |
| T 201 | 3.5 | 198.0 | 50.0 | 135 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 111-03450 |
| T30L | 3.5 | 198.0 | 50.0 | 135 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-03459 |
| T 2011 | 3.5 | 290.0 | 80.0 | 135 | PA66HS | Black (BK) | 1,000 pcs. | 2;4-6 | 111-03660 |
| T30LL | 3.5 | 290.0 | 80.0 | 135 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 111-03569 |
| T40R | 4.0 | 175.0 | 40.0 | 180 | PA66HS | Black (BK) | 100 pcs. | 2;4-8 | 111-01623 |
| 140K | 4.0 | 175.0 | 40.0 | 180 | PA66HS | Natural (NA) | 100 pcs. | 2;4-8 | 111-01627 |
| TFOC | 4.6 | 150.0 | 35.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2-10 | 111-05859 |
| T50S | 4.6 | 150.0 | 35.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-05850 |
| T50R | 4.6 | 200.0 | 50.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-04950 |
| TEOL | 4.6 | 300.0 | 85.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-05250 |
| T50I | 4.6 | 300.0 | 85.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2-10 | 111-05259 |
| T50L | 4.6 | 390.0 | 110.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-05450 |
| 150L | 4.6 | 390.0 | 110.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2-10 | 111-05436 |
| TOOD | 4.7 | 210.0 | 55.0 | 355 | PA66HS | Black (BK) | 1,000 pcs. | 2-12 | 117-08070 |
| T80R | 4.7 | 210.0 | 55.0 | 355 | PA66HS | Natural (NA) | 100 pcs. | 2-12 | 111-05059 |
| T 001 | 4.7 | 300.0 | 85.0 | 355 | PA66HS | Black (BK) | 100 pcs. | 2-12 | 111-08250 |
| T80I | 4.7 | 300.0 | 85.0 | 355 | PA66HS | Natural (NA) | 100 pcs. | 2-12 | 111-08259 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



For product specific approvals and specifications please refer to the Appendix.

Material specification

please see page 26.

Cable Ties for temperatures up to +105 °C (heat stabilised)

T-Series in PA66HS natural and black

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T-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Я N | Material | Colour | Pack Cont. | Tools | Article-No. |
|---------------|--------------|---------------|------------------|--------|----------|--------------|---------------|--------|-------------|
| TOOL | 4.7 | 390.0 | 110.0 | 355 | PA66HS | Black (BK) | 100 pcs. | 2-12 | 111-00388 |
| T80L | 4.7 | 390.0 | 110.0 | 355 | PA66HS | Natural (NA) | 100 pcs. | 2-12 | 111-05459 |
| T1205 | 7.6 | 225.0 | 55.0 | 535 | PA66HS | Black (BK) | 50 pcs. | 3;9-12 | 111-12850 |
| 11205 | 7.6 | 225.0 | 55.0 | 535 | PA66HS | Natural (NA) | 50 pcs. | 3;9-12 | 111-12824 |
| | 7.6 | 365.0 | 100.0 | 670 | PA66HS | Black (BK) | 100 pcs. | 3;9-12 | 111-15050 |
| T150R(H) | 7.6 | 365.0 | 100.0 | 670 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12 | 111-15069 |
| T420D(E) | 7.6 | 387.0 | 100.0 | 535 | PA66HS | Black (BK) | 100 pcs. | 3;9-12 | 111-12050 |
| T120R(E) | 7.6 | 387.0 | 100.0 | 535 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12 | 111-12059 |
| T120M | 7.6 | 460.0 | 125.0 | 535 | PA66HS | Black (BK) | 100 pcs. | 3;9-12 | 111-00153 |
| T420VM | 7.6 | 600.0 | 175.0 | 535 | PA66HS | Black (BK) | 50 pcs. | 3;9-12 | 111-12700 |
| T120XM | 7.6 | 600.0 | 175.0 | 535 | PA66HS | Natural (NA) | 50 pcs. | 3;9-12 | 111-12719 |
| T 4201 | 7.6 | 760.0 | 225.0 | 535 | PA66HS | Black (BK) | 50 pcs. | 3;9-12 | 111-12440 |
| T120L | 7.6 | 760.0 | 225.0 | 535 | PA66HS | Natural (NA) | 50 pcs. | 3;9-12 | 111-12449 |
| T150L | 8.8 | 820.0 | 245.0 | 780 | PA66HS | Black (BK) | 25 pcs. | 9-12 | 111-15410 |
| T150M | 8.9 | 530.0 | 150.0 | 780 | PA66HS | Black (BK) | 25 pcs. | 9-12 | 111-15609 |
| T150XL | 8.9 | 1,095.0 | 330.0 | 780 | PA66HS | Black (BK) | 25 pcs. | 9-12 | 111-15510 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Cable Ties for higher impact resistant Polyamide 6.6 ScanBlack

T-Series in PA66HIR(S) black

Impact resistance T-Series cable ties are manufactured from PA66HIR(S) - an impact modified material formulation. This high performance material offers limited brittleness sensitivity and a higher flexibility even at low temperatures. PA66HIR(S) cable ties meet increasing requirements like in the chemical, medical and/or automotive industry.

Features and benefits

- · Impact resistant cable tie in black colour
- · For bundling and securing cables, pipes and hoses
- · Available in different sizes
- Higher flexibility especially in cold environments
- · Limited brittleness sensitivity



T-Series



Impact resistant T-Series cable tie (PA66HIR(S)).



Material specification please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Tools | Article-No. |
|----------|--------------|---------------|------------------|--------|------------|------------|---------------|--------|-------------|
| T50R | 4.6 | 200.0 | 50.0 | 225 | PA66HIR(S) | Black (BK) | 100 pcs. | 2-10 | 111-04890 |
| T50I | 4.6 | 300.0 | 85.0 | 225 | PA66HIR(S) | Black (BK) | 100 pcs. | 2-10 | 111-00222 |
| T50L | 4.6 | 390.0 | 110.0 | 225 | PA66HIR(S) | Black (BK) | 100 pcs. | 2-10 | 111-05441 |
| T120I | 7.6 | 300.0 | 80.0 | 535 | PA66HIR(S) | Black (BK) | 100 pcs. | 3;9-12 | 111-12203 |
| T120R(E) | 7.6 | 387.0 | 100.0 | 535 | PA66HIR(S) | Black (BK) | 100 pcs. | 3;9-12 | 111-12032 |
| T120L | 7.6 | 760.0 | 225.0 | 535 | PA66HIR(S) | Black (BK) | 50 pcs. | 3;9-12 | 111-12402 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| Ê | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.



Cable Ties for higher fire-protection

T-Series in PA66V0 white

T-Series cable ties for bundling and securing cables, pipes and hoses. These cable ties can be used for almost any type of application especially where safety regulations are high and the reduction of smoke and dangerous gases is required. PA66V0 products are most critically used within public sector areas – particularly in the rail, construction and defence industry.

Features and benefits

- White cable tie for higher fire-protection
- Conform to low smoke generation requirements (UL94 V0)
- Low evolution of toxic gases and corrosive acids in event of a fire
- PA66V0 cable ties are available in different sizes
- High safety rating due to low fire hazard



White T-Series cable ties for higher fire protection (PA66V0).

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T-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N | Material | Colour | Pack Cont. | Tools | Article-No. |
|----------|--------------|---------------|------------------|--------|----------|------------|---------------|--------|-------------|
| T18R | 2.5 | 100.0 | 22.0 | 80 | PA66V0 | White (WH) | 100 pcs. | 2;4-6 | 111-91819 |
| T18L | 2.5 | 205.0 | 55.0 | 80 | PA66V0 | White (WH) | 1,000 pcs. | 2;4-6 | 111-02043 |
| T30R | 3.5 | 150.0 | 35.0 | 135 | PA66V0 | White (WH) | 100 pcs. | 2;4-6 | 111-93019 |
| T50R | 4.6 | 200.0 | 50.0 | 225 | PA66V0 | White (WH) | 100 pcs. | 2-10 | 111-95019 |
| T50I | 4.6 | 300.0 | 85.0 | 225 | PA66V0 | White (WH) | 100 pcs. | 2-10 | 111-00317 |
| T50L | 4.7 | 390.0 | 110.0 | 225 | PA66V0 | White (WH) | 100 pcs. | 2-10 | 111-05438 |
| T120R(E) | 7.6 | 387.0 | 100.0 | 535 | PA66V0 | White (WH) | 100 pcs. | 3;9-12 | 111-91210 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.





Cable Ties for temperatures up to +150 °C in Polyamide 4.6

T-Series in PA46 natural and grey

These inside serrated cable ties are made from Polyamide 4.6 (PA46). They can be applied in environments with continuous temperatures up to +150 °C which makes them suitable for applications where a broader temperature range is required. Polyamide 4.6 is a well known material in the automotive, railway or white goods area. An application tool is recommended to ensure greater process reliability while installing cable ties.

Features and benefits

- Cable tie for high temperature applications up to +150 $^{\circ}\text{C}$
- Available in different sizes to cover various bundle diameters
- Low smoke generation in the event of a fire
- PA46 is a moisture sensitive material
- Inside serrated cable tie offers strong hold around bundles
- Easy application either manually or with an application tool

L



T-Series cable ties - higher temperature resistance up to +150 °C (PA46).



Material specification please see page 26.

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| T-Series | |

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Tools | Article-No. |
|----------|--------------|---------------|------------------|--------|----------|--------------|---------------|--------|-------------|
| T18R | 2.5 | 100.0 | 22.0 | 80 | PA46 | Natural (NA) | 1,000 pcs. | 2;4-6 | 114-01879 |
| T30R | 3.5 | 150.0 | 35.0 | 135 | PA46 | Natural (NA) | 100 pcs. | 2;4-6 | 114-03079 |
| T50R | 4.6 | 200.0 | 50.0 | 225 | PA46 | Grey (GY) | 100 pcs. | 2-10 | 111-00824 |
| ISUK | 4.6 | 200.0 | 50.0 | 225 | PA46 | Natural (NA) | 100 pcs. | 2-10 | 111-00525 |
| T50I | 4.6 | 300.0 | 85.0 | 225 | PA46 | Natural (NA) | 100 pcs. | 2-10 | 111-05220 |
| T50L | 4.6 | 390.0 | 110.0 | 225 | PA46 | Natural (NA) | 100 pcs. | 2-10 | 111-00526 |
| T120R(E) | 7.6 | 387.0 | 100.0 | 535 | PA46 | Natural (NA) | 100 pcs. | 3;9-12 | 114-12179 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.



Cable Ties and Fixings

Cable Ties Inside Serrated

Cable Ties for higher chemical resistance and temperatures up to +170 °C T-Series in E/TFE (Tefzel[®]) blue

E/TFE or Tefzel[®] cable ties are used when higher chemical resistance and/or temperatures up to +170 °C are required. These ties are most likely chosen for challenging applications in industries like food and beverage, aerospace, automotive or railway.

Features and benefits

- Blue cable tie offering high chemical resistance
- Suitable for applications with temperatures up to 170 °C
- Resistant to radioactivity and UV light
- E/TFE is a non hydroscopic material, no moisture absorption
- Complying with UL94 V0 requirements



T-Series E/TFE cable ties – for higher chemical resistance up to +170 °C.

For more information on E/TFE mounts

please refer to KR-Series on page 148.



T-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ۲ | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|--------------|---------------|------------------|--------|----------|-----------|---------------|--------|-------------|
| T18R | 2.5 | 100.0 | 22.0 | 80 | E/TFE | Blue (BU) | 100 pcs. | 2;4-6 | 111-00659 |
| T30R | 3.5 | 150.0 | 36.0 | 133 | E/TFE | Blue (BU) | 100 pcs. | 2;4-6 | 111-00698 |
| T50R | 4.7 | 201.0 | 50.0 | 222 | E/TFE | Blue (BU) | 100 pcs. | 2-10 | 111-00732 |
| T50L | 4.7 | 382.0 | 105.0 | 222 | E/TFE | Blue (BU) | 100 pcs. | 2-10 | 111-00718 |
| T120R | 7.4 | 387.0 | 105.0 | 535 | E/TFE | Blue (BU) | 50 pcs. | 3;9-12 | 111-01125 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. General linguistic usage for cable ties made from raw material E/TFE is Tefzel[®]-Tie. In additon to Tefzel[®] from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.





Polypropylene Cable Ties for higher chemical resistance and temperatures up to +115 °C T-Series in PP natural and black

T-Series cable ties made from Polypropylene (PP) are less hydroscopic and offer a higher chemical resistance and temperature range compared to a standard Polyamide 6.6 (PA66) material. Cable ties from Polypropylene can withstand continuous operating temperatures up to +115 °C. These cable ties are used to bundle and secure cables, pipes and/or hoses.

Features and benefits

- Polypropylene cable ties for higher chemical reistance
- Can withstand continuous operating temperatures up to 115 °C
- Different sizes available in black and natural colour
- Due to its low density PP cable ties can float on water
- Less hydroscopic material, almost no water absorbtion





All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.

HellermannTyton 52 Further information at www.HellermannTyton.com/fixings



T-Series cable ties for higher chemical resistance and temperatures up to +115 °C (PP).



Material specification please see page 26.

Cable Ties made from sustainable bioplastic T-Series in PA11 black

T-Series cable ties manufactured from PA11 have many technical features making them suitable for use in a variety of applications to fix and support cables, pipes and other elements. They offer an excellent resistance to chemicals in most challenging environments like offshore or on oil rigs and construction vehicles. In addition the very good UV resistance makes it a perfect choice for solar panel cable installations.

Features and benefits

- Made of Polyamide 11 a sustainable bioplastic from vegetable oil
- Very good UV resistance and durability in outdoor applications
- Stable technical performance even at very low temperatures
- High resistance to chemicals including chlorides
- Low water absorption rate offers consistent technical performance



A sustainable T-Series cable tie with high resistance to chemicals and UV light.

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T-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ≺≥ | Material | Colour | Pack Cont. | Tools | Article-No. |
|------|--------------|---------------|------------------|-----|----------|------------|---------------|-------|-------------|
| T18R | 2.5 | 100.0 | 22.0 | 80 | PA11 | Black (BK) | 100 pcs. | 2;4-6 | 111-01718 |
| T30R | 3.5 | 150.0 | 35.0 | 130 | PA11 | Black (BK) | 100 pcs. | 2;4-6 | 111-01719 |
| T50S | 4.6 | 150.0 | 35.0 | 170 | PA11 | Black (BK) | 100 pcs. | 2-10 | 111-01720 |
| T50R | 4.6 | 200.0 | 50.0 | 170 | PA11 | Black (BK) | 100 pcs. | 2-10 | 111-01721 |
| T50M | 4.6 | 245.0 | 65.0 | 225 | PA11 | Black (BK) | 100 pcs. | 2-10 | 111-02218 |
| T50I | 4.6 | 300.0 | 85.0 | 225 | PA11 | Black (BK) | 100 pcs. | 2-10 | 111-02217 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

For more information on toolings please refer to the Application Tooling chapter.





Cable Ties in-between size to T-Series

LK-Series natural and black

For bundling and securing cables, pipes, hoses and other elements. These cable ties can be used for a countless number of applications. The LK-Series is similar to T-Series but offers in-between sizes to fit individual customer needs.

Features and benefits

- Inside serrated cable ties for a strong hold around bundles
- Various materials and sizes are available
- High tensile strength with very low insertion force
- Easy application either manually or with an application tool



LK-Series - in-between size to T-Series.

| <u>-</u> | Material specification please see page 26. |
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| | please see page 26. |

L

LK-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Я N | Material | Colour | Pack Cont. | Tools | Article-No. |
|------|--------------|---------------|------------------|--------|------------|--------------|---------------|-------|-------------|
| 1424 | 4.6 | 270.0 | 73.0 | 225 | PA66 | Black (BK) | 100 pcs. | 2-10 | 111-60110 |
| | 4.6 | 270.0 | 73.0 | 225 | PA66 | Natural (NA) | 100 pcs. | 2-10 | 111-60119 |
| | 4.6 | 270.0 | 73.0 | 225 | PA66HIR(S) | Black (BK) | 100 pcs. | 2-10 | 111-00127 |
| LK2A | 4.6 | 270.0 | 73.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2-10 | 111-60150 |
| | 4.6 | 270.0 | 73.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2-10 | 111-60159 |
| | 4.6 | 270.0 | 73.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2-10 | 111-60160 |
| LK2 | 4.8 | 120.0 | 28.0 | 135 | PA66 | Natural (NA) | 200 pcs. | 2;4-8 | 111-60219 |
| | 13.2 | 535.0 | 150.0 | 1,115 | PA66 | Black (BK) | 50 pcs. | 11-12 | 111-60510 |
| | 13.2 | 535.0 | 150.0 | 1,115 | PA66 | Natural (NA) | 50 pcs. | 11-12 | 111-60519 |
| LK5 | 13.2 | 535.0 | 150.0 | 1,115 | PA66HIR(S) | Black (BK) | 50 pcs. | 11-12 | 111-60501 |
| | 13.2 | 535.0 | 150.0 | 1,115 | PA66HS | Natural (NA) | 50 pcs. | 11-12 | 111-60559 |
| | 13.2 | 535.0 | 150.0 | 1,115 | PA66W | Black (BK) | 50 pcs. | 11-12 | 111-60560 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Recommended Tools | | | | | | | | | | | |
|-------------------|------|------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.



Cable Ties and Fixings

Q-ties

Innovative – Effective – Safe!

The new Q-tie has not only innovative, but also has a revolutionary new design. The open head of the cable tie enables a simple and quick installation. Simply insert the ergonomically bent tail into the open side of the head and tighten the cable tie. With Q-ties you can save time and money!

Easy Application for every Situation!

Q-tie provides the perfect solution for applications in difficult working conditions. It is ideal for use in applications when working with gloves is necessary or for blind applications with a limited view of the work. The new Q-tie allowing for a quick and simple installation, even with work gloves and restricted view.

Features for quick and easy application:

- Large curved tail with easy-grip ribs
- Open head with easy detectable slot
- This saves time and trouble!

Integrated Pre-locking Functionality!

Due to several simultaneous working processes, it is not always possible to install all cables and conduits in one single step. Working with standard cable ties means either removing the cable tie of the first installation or applying additional cable ties. The integrated pre-locking function of the Q-tie offers both a temporary and final cable fastening solution.

This saves material and time!



Q-Series

Pre-locking Function of the Q-tie:



1. Insert tail into lock head and push tail partly in the head.



2. To release the tie push the tail slightly out of the head.



Even under difficult circumstances the Q-tie cable tie is very fast and easy to apply.



Please find more Q-Series products for your system solution on page 137, 147 and 492.

Application Method:



1. Insert the thin part of the cable tie into the open lock head.



2. Pull the tie through the head until the bundle is fixed.

3. Cut off the remaining part of the tie with an application tool.



3. If installation is finished, Q-tie can be tightened and cut off - either manually or with an application tool.
Cable Ties with open head Polyamide 6.6 standard

Q-Series in PA66 natural and black

Q-Series cable ties for bundling and securing cables, pipes and hoses. These innovative and effective cable ties enable a simple and quick installation, even in difficult applications.

Features and benefits

- Open lock head for quick and easy insertion
- Integrated pre-locking function
- More than 25 % faster to apply than a standard cable tie
- Inside serration for a strong hold around bundles

• Easy application either manually or with a processing tool

L



Q-tie cable ties: choose from a wide product range in different sizes.

Q-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|--------|----------|--------------|---------------|-----------|-------------|
| 0400 | 2.6 | 105.0 | 24.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 109-00030 |
| Q18R | 2.6 | 105.0 | 24.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 109-00001 |
| 0101 | 2.6 | 155.0 | 40.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 109-00033 |
| Q18I | 2.6 | 155.0 | 40.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 109-00004 |
| 0401 | 2.6 | 195.0 | 50.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 109-00036 |
| Q18L | 2.6 | 195.0 | 50.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 109-00007 |
| 0205 | 3.6 | 160.0 | 38.0 | 130 | PA66 | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00039 |
| Q30R | 3.6 | 160.0 | 38.0 | 130 | PA66 | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00010 |
| 0.201 | 3.6 | 200.0 | 50.0 | 130 | PA66 | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00041 |
| Q30L | 3.6 | 200.0 | 50.0 | 130 | PA66 | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00012 |
| 02010 | 3.6 | 250.0 | 65.0 | 130 | PA66 | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00043 |
| Q30LR | 3.6 | 250.0 | 65.0 | 130 | PA66 | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00014 |
| 0505 | 4.7 | 210.0 | 50.0 | 220 | PA66 | Black (BK) | 100 pcs. | 2-12;15 | 109-00047 |
| Q50R | 4.7 | 210.0 | 50.0 | 220 | PA66 | Natural (NA) | 100 pcs. | 2-12;15 | 109-00018 |
| 0501 | 4.7 | 290.0 | 75.0 | 220 | PA66 | Black (BK) | 100 pcs. | 2-12;15 | 109-00049 |
| Q50I | 4.7 | 290.0 | 75.0 | 220 | PA66 | Natural (NA) | 100 pcs. | 2-12;15 | 109-00020 |
| 0501 | 4.7 | 410.0 | 110.0 | 220 | PA66 | Black (BK) | 100 pcs. | 2-12;15 | 109-00051 |
| Q50L | 4.7 | 410.0 | 110.0 | 220 | PA66 | Natural (NA) | 100 pcs. | 2-12;15 | 109-00022 |
| 04201 | 7.7 | 300.0 | 70.0 | 530 | PA66 | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00053 |
| Q120I | 7.7 | 300.0 | 70.0 | 530 | PA66 | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00024 |
| 04202 | 7.7 | 420.0 | 110.0 | 530 | PA66 | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00055 |
| Q120R | 7.7 | 420.0 | 110.0 | 530 | PA66 | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00026 |
| 042014 | 7.7 | 520.0 | 130.0 | 530 | PA66 | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00057 |
| Q120M | 7.7 | 520.0 | 130.0 | 530 | PA66 | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00028 |

MD Iw

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|--------|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 | | |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.

Cable Ties with open head Polyamide 6.6 standard Q-Series in PA66 coloured

Q-Series cable ties for bundling and securing cables, pipes and hoses. These innovative and effective cable ties enable a simple and quick installation, even in difficult applications.

Features and benefits

- Coloured cable ties available in a wide range of sizes
- Open lock head for quick and easy insertion
- Integrated pre-locking function
- More than 25 % faster to apply than a standard cable tie
- Inside serration for a strong hold around bundles
- Easy application either manually or with a processing tool



Application video Q-Series

L



Q-ties in different colours are ideal for marking and bundling in one step.



Material specification please see page 26.

P

Please find more Q-Series products for your system solution on page 137, 147 and 492.

|--|--|

Q-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Tools | Article-No. |
|------|--------------|---------------|------------------|--------|----------|---------------------------|---------------|-------|-------------|
| | 2.6 | 105.0 | 24.0 | 80 | PA66 | Blue (BU) | 100 pcs. | 2;4-6 | 109-00147 |
| Q18R | 2.6 | 105.0 | 24.0 | 80 | PA66 | Green (GN) 100 pcs. 2;4-6 | 109-00148 | | |
| VION | 2.6 | 105.0 | 24.0 | 80 | PA66 | Red (RD) | 100 pcs. | 2;4-6 | 109-00149 |
| | 2.6 | 105.0 | 24.0 | 80 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6 | 109-00150 |
| | 2.6 | 155.0 | 40.0 | 80 | PA66 | Blue (BU) | 100 pcs. | 2;4-6 | 109-00152 |
| 0191 | 2.6 | 155.0 | 40.0 | 80 | PA66 | Green (GN) | 100 pcs. | 2;4-6 | 109-00153 |
| Q18I | 2.6 | 155.0 | 40.0 | 80 | PA66 | Red (RD) | 100 pcs. | 2;4-6 | 109-00154 |
| | 2.6 | 155.0 | 40.0 | 80 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6 | 109-00155 |
| | 2.6 | 195.0 | 50.0 | 80 | PA66 | Blue (BU) | 100 pcs. | 2;4-6 | 109-00157 |
| 0191 | 2.6 | 195.0 | 50.0 | 80 | PA66 | Green (GN) | 100 pcs. | 2;4-6 | 109-00158 |
| Q18L | 2.6 | 195.0 | 50.0 | 80 | PA66 | Red (RD) | 100 pcs. | 2;4-6 | 109-00159 |
| | 2.6 | 195.0 | 50.0 | 80 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6 | 109-00160 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|--------|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 | | |





Cable Ties with open head Polyamide 6.6 standard

Q-Series in PA66 coloured

Ð MD Iw <u>..../</u>....//

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Q-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ך ₪ | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|--------|----------|-------------|---------------|-----------|-------------|
| | 3.6 | 160.0 | 38.0 | 130 | PA66 | Blue (BU) | 100 pcs. | 2;4-6;8 | 109-00162 |
| 0200 | 3.6 | 160.0 | 38.0 | 130 | PA66 | Green (GN) | 100 pcs. | 2;4-6;8 | 109-00163 |
| Q30R | 3.6 | 160.0 | 38.0 | 130 | PA66 | Red (RD) | 100 pcs. | 2;4-6;8 | 109-00164 |
| | 3.6 | 160.0 | 38.0 | 130 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6;8 | 109-00165 |
| | 3.6 | 200.0 | 50.0 | 130 | PA66 | Blue (BU) | 100 pcs. | 2;4-6;8 | 109-00167 |
| 0201 | 3.6 | 200.0 | 50.0 | 130 | PA66 | Green (GN) | 100 pcs. | 2;4-6;8 | 109-00168 |
| Q30L | 3.6 | 200.0 | 50.0 | 130 | PA66 | Red (RD) | 100 pcs. | 2;4-6;8 | 109-00169 |
| | 3.6 | 200.0 | 50.0 | 130 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6;8 | 109-00170 |
| | 3.6 | 250.0 | 65.0 | 130 | PA66 | Blue (BU) | 100 pcs. | 2;4-6;8 | 109-00172 |
| | 3.6 | 250.0 | 65.0 | 130 | PA66 | Green (GN) | 100 pcs. | 2;4-6;8 | 109-00173 |
| Q30LR | 3.6 | 250.0 | 65.0 | 130 | PA66 | Red (RD) | 100 pcs. | 2;4-6;8 | 109-00174 |
| | 3.6 | 250.0 | 65.0 | 130 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6;8 | 109-00175 |
| | 4.7 | 210.0 | 50.0 | 220 | PA66 | Blue (BU) | 100 pcs. | 2-12;15 | 109-00182 |
| | 4.7 | 210.0 | 50.0 | 220 | PA66 | Green (GN) | 100 pcs. | 2-12;15 | 109-00183 |
| Q50R | 4.7 | 210.0 | 50.0 | 220 | PA66 | Red (RD) | 100 pcs. | 2-12;15 | 109-00184 |
| | 4.7 | 210.0 | 50.0 | 220 | PA66 | Yellow (YE) | 100 pcs. | 2-12;15 | 109-00185 |
| | 4.7 | 290.0 | 75.0 | 220 | PA66 | Blue (BU) | 100 pcs. | 2-12;15 | 109-00187 |
| 0.501 | 4.7 | 290.0 | 75.0 | 220 | PA66 | Green (GN) | 100 pcs. | 2-12;15 | 109-00188 |
| Q50I | 4.7 | 290.0 | 75.0 | 220 | PA66 | Red (RD) | 100 pcs. | 2-12;15 | 109-00189 |
| | 4.7 | 290.0 | 75.0 | 220 | PA66 | Yellow (YE) | 100 pcs. | 2-12;15 | 109-00190 |
| | 4.7 | 410.0 | 110.0 | 220 | PA66 | Blue (BU) | 100 pcs. | 2-12;15 | 109-00192 |
| 0501 | 4.7 | 410.0 | 110.0 | 220 | PA66 | Green (GN) | 100 pcs. | 2-12;15 | 109-00193 |
| Q50L | 4.7 | 410.0 | 110.0 | 220 | PA66 | Red (RD) | 100 pcs. | 2-12;15 | 109-00194 |
| | 4.7 | 410.0 | 110.0 | 220 | PA66 | Yellow (YE) | 100 pcs. | 2-12;15 | 109-00195 |
| | 7.7 | 300.0 | 70.0 | 530 | PA66 | Blue (BU) | 100 pcs. | 3;9-12;15 | 109-00197 |
| 04201 | 7.7 | 300.0 | 70.0 | 530 | PA66 | Green (GN) | 100 pcs. | 3;9-12;15 | 109-00198 |
| Q120I | 7.7 | 300.0 | 70.0 | 530 | PA66 | Red (RD) | 100 pcs. | 3;9-12;15 | 109-00199 |
| | 7.7 | 300.0 | 70.0 | 530 | PA66 | Yellow (YE) | 100 pcs. | 3;9-12;15 | 109-00200 |
| | 7.7 | 420.0 | 110.0 | 530 | PA66 | Blue (BU) | 100 pcs. | 3;9-12;15 | 109-00202 |
| 04305 | 7.7 | 420.0 | 110.0 | 530 | PA66 | Green (GN) | 100 pcs. | 3;9-12;15 | 109-00203 |
| Q120R | 7.7 | 420.0 | 110.0 | 530 | PA66 | Red (RD) | 100 pcs. | 3;9-12;15 | 109-00204 |
| | 7.7 | 420.0 | 110.0 | 530 | PA66 | Yellow (YE) | 100 pcs. | 3;9-12;15 | 109-00205 |
| | 7.7 | 520.0 | 130.0 | 530 | PA66 | Blue (BU) | 100 pcs. | 3;9-12;15 | 109-00207 |
| 042014 | 7.7 | 520.0 | 130.0 | 530 | PA66 | Green (GN) | 100 pcs. | 3;9-12;15 | 109-00208 |
| Q120M | 7.7 | 520.0 | 130.0 | 530 | PA66 | Red (RD) | 100 pcs. | 3;9-12;15 | 109-00209 |
| | 7.7 | 520.0 | 130.0 | 530 | PA66 | Yellow (YE) | 100 pcs. | 3;9-12;15 | 109-00210 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



For product specific approvals and specifications please refer to the Appendix.

Cable Ties with open head for outdoor use (UV-resistant)

Q-Series in PA66W black

Q-Series cable ties for bundling and securing cables, pipes and hoses. These innovative and effective cable ties enable a simple and quick installation, even in difficult applications.

Features and benefits

- · Weather-resistant black cable ties available in a wide range of sizes
- Open lock head for quick and easy insertion
- Integrated pre-locking function
- More than 25 % faster to apply than a standard cable tie
- Inside serration for a strong hold around bundles
- Easy application either manually or with a processing tool
- UV-resistant



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Please find more Q-Series products for your system solution on page 137, 147 and 492.

Q-tie cable ties: choose from a wide product range in different sizes.

Material specification

please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ך ₪ | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|--------------|---------------|------------------|--------|----------|------------|---------------|-----------|-------------|
| Q18R | 2.6 | 105.0 | 24.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 109-00059 |
| Q18I | 2.6 | 155.0 | 40.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 109-00062 |
| Q18L | 2.6 | 195.0 | 50.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 109-00065 |
| Q30R | 3.6 | 160.0 | 38.0 | 130 | PA66W | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00068 |
| Q30L | 3.6 | 200.0 | 50.0 | 130 | PA66W | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00070 |
| Q30LR | 3.6 | 250.0 | 65.0 | 130 | PA66W | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00072 |
| Q50R | 4.7 | 210.0 | 50.0 | 220 | PA66W | Black (BK) | 100 pcs. | 2-12;15 | 109-00076 |
| Q50I | 4.7 | 290.0 | 75.0 | 220 | PA66W | Black (BK) | 100 pcs. | 2-12;15 | 109-00078 |
| Q50L | 4.7 | 410.0 | 110.0 | 220 | PA66W | Black (BK) | 100 pcs. | 2-12;15 | 109-00080 |
| Q120I | 7.7 | 300.0 | 70.0 | 530 | PA66W | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00082 |
| Q120R | 7.7 | 420.0 | 110.0 | 530 | PA66W | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00084 |
| Q120M | 7.7 | 520.0 | 130.0 | 530 | PA66W | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00086 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | ommende | d Tools | | | | | | | | | | |
|-----|---------|---------|-------|----------|------|-------|------|-----|------|--------|------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 |

Cable Ties with open head for temperatures up to +105 °C (heat stabilised)

Q-Series in PA66HS natural and black

Q-Series cable ties for bundling and securing cables, pipes and hoses. These innovative and effective cable ties enable a simple and quick installation, even in difficult applications.

Features and benefits

- Heat stabilised cable ties available in a wide range of sizes
- Open lock head for quick and easy insertion
- Integrated pre-locking function
- More than 25 % faster to apply than a standard cable tie
- Inside serration for a strong hold around bundles
- Easy application either manually or with a processing tool
- Higher temperature resistance up to +105 °C



Q-tie cable ties: choose from a wide product range in different sizes.

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Q-Series

| TYPE | Width (W) | Length (L) | Bundle Ø max. | کر ا | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|--------------|---------------|------------------|---------|----------|--------------|---------------|-----------|-------------|
| 0100 | 2.6 | 105.0 | 24.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 109-00088 |
| Q18R | 2.6 | 105.0 | 24.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 109-00117 |
| 0101 | 2.6 | 155.0 | 40.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 109-00091 |
| Q18I | 2.6 | 155.0 | 40.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 109-00120 |
| 0401 | 2.6 | 195.0 | 50.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 109-00094 |
| Q18L | 2.6 | 195.0 | 50.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 109-00123 |
| 0200 | 3.6 | 160.0 | 38.0 | 130 | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00097 |
| Q30R | 3.6 | 160.0 | 38.0 | 130 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00126 |
| 0201 | 3.6 | 200.0 | 50.0 | 130 | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00099 |
| Q30L | 3.6 | 200.0 | 50.0 | 130 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00128 |
| 02010 | 3.6 | 250.0 | 65.0 | 130 | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00101 |
| Q30LR | 3.6 | 250.0 | 65.0 | 130 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00130 |
| 0500 | 4.7 | 210.0 | 50.0 | 220 | PA66HS | Black (BK) | 100 pcs. | 2-12;15 | 109-00105 |
| Q50R | 4.7 | 210.0 | 50.0 | 220 | PA66HS | Natural (NA) | 100 pcs. | 2-12;15 | 109-00134 |
| 0501 | 4.7 | 290.0 | 75.0 | 220 | PA66HS | Black (BK) | 100 pcs. | 2-12;15 | 109-00107 |
| Q50I | 4.7 | 290.0 | 75.0 | 220 | PA66HS | Natural (NA) | 100 pcs. | 2-12;15 | 109-00136 |
| 0501 | 4.7 | 410.0 | 110.0 | 220 | PA66HS | Black (BK) | 100 pcs. | 2-12;15 | 109-00109 |
| Q50L | 4.7 | 410.0 | 110.0 | 220 | PA66HS | Natural (NA) | 100 pcs. | 2-12;15 | 109-00138 |
| 04201 | 7.7 | 300.0 | 70.0 | 530 | PA66HS | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00111 |
| Q120I | 7.7 | 300.0 | 70.0 | 530 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00140 |
| | 7.7 | 420.0 | 110.0 | 530 | PA66HS | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00113 |
| Q120R | 7.7 | 420.0 | 110.0 | 530 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00142 |
| | 7.7 | 520.0 | 130.0 | 530 | PA66HS | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00115 |
| Q120M | 7.7 | 520.0 | 130.0 | 530 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00144 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|--------|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 | | |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.

Cable Ties and Fixings Cable Ties Inside Serrated

Cable Ties with smart design

X-Series

The X-series range of cable ties provides a new and improved design compared with standard cable ties, delivering a range of benefits and enhanced performance. With a new streamlined design and smaller head, the X-Series cable ties provide a superior fixing solution for tight applications, whilst also benefiting from a better grip around the bundle. This professional cable tie range is available in weather resistant and high impact / heat stabilised materials, ensuring these fixings consistently perform well at both high temperatures and in cold environments.

Features and benefits

- Inside serrated cable tie
- High tensile strength around cable bundles
- Smooth, rounded head design
- Space saving solution
- Improved ergonomic design
- Provides a secure fastening with no lateral movement





X-series

| | Width | Length | Bundle Ø | ر الا | | | Pack | | |
|-------|-------|--------|----------|----------|-----------|------------|----------|--------|-------------|
| TYPE | (W) | (L) | max. | | Material | Colour | Cont. | Tools | Article-No. |
| X20R | 2.5 | 100.0 | 20.0 | 90 | PA66HIRHS | Black (BK) | 100 pcs. | 2;4-6 | 108-00066 |
| AZUK | 2.5 | 100.0 | 20.0 | 90 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 108-00072 |
| X80S | 4.7 | 150.0 | 35.0 | 355 | PA66HIRHS | Black (BK) | 100 pcs. | 2-12 | 108-00001 |
| 7902 | 4.7 | 150.0 | 35.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 108-00003 |
| VOOD | 4.7 | 200.0 | 50.0 | 355 | PA66HIRHS | Black (BK) | 100 pcs. | 2-12 | 108-00004 |
| X80R | 4.7 | 200.0 | 50.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 108-00010 |
| | 4.7 | 300.0 | 84.0 | 355 | PA66HIRHS | Black (BK) | 100 pcs. | 2-12 | 108-00018 |
| X80I | 4.7 | 300.0 | 84.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 108-00024 |
| X80L | 4.7 | 385.0 | 110.0 | 355 | PA66HIRHS | Black (BK) | 100 pcs. | 2-12 | 108-00028 |
| XOUL | 4.7 | 385.0 | 110.0 | 355 | PA66W | Black (BK) | 100 pcs. | 2-12 | 108-00034 |
| V1200 | 7.7 | 369.0 | 100.0 | 535 | PA66HIRHS | Black (BK) | 100 pcs. | 3;9-12 | 108-00040 |
| X120R | 7.7 | 369.0 | 100.0 | 535 | PA66W | Black (BK) | 100 pcs. | 3;9-12 | 108-00042 |
| VALOD | 13.0 | 535.0 | 150.0 | 1,115 | PA66HIRHS | Black (BK) | 50 pcs. | 11-12 | 108-00050 |
| X250R | 13.0 | 535.0 | 150.0 | 1,115 | PA66W | Black (BK) | 50 pcs. | 11-12 | 108-00052 |
| VALOI | 13.0 | 715.0 | 205.0 | 1,115 | PA66HIRHS | Black (BK) | 50 pcs. | 11-12 | 108-00045 |
| X250I | 13.0 | 715.0 | 205.0 | 1,115 | PA66W | Black (BK) | 50 pcs. | 11-12 | 108-00047 |

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools 2 3 4 5 6 7 8 9 10 11 12 MK20 MK21 MK3SP MK3PNSP2 EVO7 MK7HT MK7P MK6 EVO9 EVO9HT MK9P Þ 551 551 552 554 555 556 557 554 554 558 552

For more information on toolings please refer to the Application Tooling chapter.



X-series provides a superior fixing solution for tight applications.



Material specification please see page 26.

61

Cable Ties for hose and gaiter

CTT-Series natural and black

CTT is designed to secure pipes, hoses and gaiters where low pressures are being secured. These ties can be used in many different industries including automotive, white goods manufacturing, medical, medical industry and construction.

Features and benefits

- Curved head design offers a good fit to the bundle
- Inside serration for a strong hold onto bundles

Material specification

please see page 26.

• Easy application either manually or with a processing tool



CTT ties installed on flexible gaiters.



For secure fixing of round and solid shapes.



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CTT series

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| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------|-------------|
| CTTOOP | 2.5 | 101.6 | 13.0 | 90 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 112-51919 |
| CTT20R | 2.5 | 101.6 | 13.0 | 90 | PA66HS | Black (BK) | 1,000 pcs. | 2;4-6 | 112-51960 |
| CTT60R | 4.7 | 205.0 | 45.0 | 265 | PA66 | Black (BK) | 100 pcs. | 2-12 | 112-56019 |
| CITOUR | 4.7 | 205.0 | 45.0 | 265 | PA66HS | Black (BK) | 100 pcs. | 2-12 | 112-52112 |

CTT Hose Ties

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | | |



Cable Ties for parallel routing

DH-Series

Double loop head ties are ideal for separation of two cable runs without the need for additional cable ties. Additionally these ties are widely used within the packaging industry. The first loop closes and secures the bag whilst the second loop can be made into a carrying handle (subject to weight).

Features and benefits

- Possibility to separate bundles with only one cable tie
- Cable tie with two heads creating an inside and outside serrated loop
- Available in a wide range of materials
- Bundles can be of different diameter
- Maximum bundle diameter is a maximum combined bundle
- Easy application either manually or with a processing tool

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DH-Series



DH-Series cable ties for parallel routing.

DH-Series maximum combined bundle diameter

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | کر ا | Min. Tensile Strength 2nd loop | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|---------|--------------------------------------|----------|--------------|---------------|---------|-------------|
| | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA46 | Grey (GY) | 100 pcs. | 2;4-6;8 | 117-05168 |
| | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA66 | Black (BK) | 100 pcs. | 2;4-6;8 | 117-05000 |
| T50RDH | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA66 | Natural (NA) | 100 pcs. | 2;4-6;8 | 117-05002 |
| | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 117-05050 |
| | 4.7 | 210.0 | 38.0 | 225 | 180 N | PA66W | Black (BK) | 500 pcs. | 2;4-6;8 | 117-05060 |
| | 4.7 | 305.0 | 76.0 | 225 | 180 N | PA66 | Natural (NA) | 1,000 pcs. | 2;4-6;8 | 117-05303 |
| T50IDH | 4.7 | 305.0 | 76.0 | 225 | 180 N | PA66HS | Black (BK) | 1,000 pcs. | 2;4-6;8 | 117-05350 |
| | 4.7 | 305.0 | 76.0 | 225 | 180 N | PA66W | Black (BK) | 100 pcs. | 2;4-6;8 | 117-05360 |
| | 4.7 | 395.0 | 100.0 | 225 | 180 N | PA66 | Natural (NA) | 1,000 pcs. | 2;4-6;8 | 117-05461 |
| T50LDH | 4.7 | 395.0 | 100.0 | 225 | 180 N | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 117-00008 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | ommended T | ools | | | |
|-----|------------|-------|----------|------|------|
| | 2 | 4 | 5 | 6 | 8 |
| | MK20 | MK3SP | MK3PNSP2 | EVO7 | MK7P |
| | 551 | 552 | 552 | 554 | 556 |





We brought the first detectable metal content tie onto the market



Today we are leading the next generation of solutions for a highly automated, highly competitive food and beverage industry.

Find out more about our detectable products for food processing in our brochure.



Order now!

Cable ties for food industry, detectable

The Metal Content Tie is a cable tie specifically designed for use in the food and pharmaceutical processing industries. A unique manufacturing process, involving the inclusion of a metallic pigment, enables even small 'cut-off' sections of the tie to be detected by standard metaldetecting equipment. Ideally suited for the installaton of cabling in and around the manufacturing process.

Features and benefits

- · Total metal dispersion throughout the tie
- · Can support quality assurance in the production of food stuffs, for example HACCP
- Blue colour for easy visual detection
- · Greatly reduces risk of contamination
- Magnetic and X-Ray detectable (detection level depending on specific application and equipment)



Material specification please see page 26.



Our detectable MCT(S) cable ties used in the food and pharmaceutical industry.



One Step to the Web!

Can support quality assurance

MCT-Series, PA66MP



i I in the production of food stuffs, for example HACCP.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N | Material | Colour | Pack Cont. | Tools | Article-No. |
|---------|--------------|---------------|------------------|--------|----------|-----------|---------------|--------|-------------|
| MCT18R | 2.5 | 100.0 | 22.0 | 80 | PA66MP | Blue (BU) | 100 pcs. | 2;4-6 | 111-01225 |
| MCT30R | 3.5 | 150.0 | 35.0 | 135 | PA66MP | Blue (BU) | 100 pcs. | 2;4-6 | 111-00829 |
| MCT50R | 4.6 | 202.0 | 50.0 | 225 | PA66MP | Blue (BU) | 100 pcs. | 2-10 | 111-00830 |
| MCT50L | 4.7 | 380.0 | 110.0 | 225 | PA66MP | Blue (BU) | 100 pcs. | 2-12 | 111-00831 |
| MCT120R | 7.6 | 387.0 | 100.0 | 535 | PA66MP | Blue (BU) | 100 pcs. | 3;9-12 | 111-01136 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | | |

For more information on toolings please refer to the Application Tooling chapter

MCT-Series releasable, PA66MP

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Article-No. |
|-----------|--------------|---------------|------------------|--------|----------|-----------|---------------|-------------|
| MCTRELK2M | 4.6 | 250.0 | 65.0 | 225 | PA66MP | Blue (BU) | 100 pcs. | 111-00937 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable ties for food industry, detectable, corrosion resistant MCTS-Series, PA66MP+

Our MCTS cable ties have been specifically developed to be used in the food and beverage as well as in the pharmaceutical industry. A unique manufacturing process in combination with a unique material formulation is offering outstanding perfomance in line with high corrosion resistance. This makes the MCTS an ideal product even for very humid environments. In addition the MCTS ties manufactured from a polypropylene base material are offering very good chemical resistance.

Features and benefits

MCT(S)

- Total metal dispersion throughout the tie
- Can support quality assurance in the production of food stuffs, for example HACCP
- Blue colour for easy visual detection
- Greatly reduces risk of contamination
- Magnetic and X-Ray detectable (detection level depending on specific application and equipment)

• MCTS ties have very good corrosion resistance

Our detectable MCT(S) cable ties used in the food and pharmaceutical industry.



Can support quality assurance in the production of food stuffs, for example HACCP.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Я N | Material | Colour | Pack Cont. | Tools | Article-No. |
|-----------|--------------|---------------|------------------|--------|----------|------------------|---------------|-------|-------------|
| | 2.5 | 100.0 | 22.0 | 60 | PA66MP+ | Blue (BU) | 100 pcs. | 2;4-6 | 111-01341 |
| MCTS100 | 2.5 | 100.0 | 22.0 | 60 | PA66MP+ | Mint Green (MGN) | 100 pcs. | 2;4-6 | 111-01377 |
| IVICISIOU | 2.5 | 100.0 | 22.0 | 60 | PA66MP+ | Mustard (MST) | 100 pcs. | 2;4-6 | 111-01380 |
| | 2.5 | 100.0 | 22.0 | 60 | PA66MP+ | Russet (RUS) | 100 pcs. | 2;4-6 | 111-01383 |
| | 3.5 | 153.0 | 36.0 | 110 | PA66MP+ | Blue (BU) | 100 pcs. | 2;4-6 | 111-01342 |
| MCTS150 | 3.5 | 153.0 | 36.0 | 110 | PA66MP+ | Mint Green (MGN) | 100 pcs. | 2;4-6 | 111-01378 |
| IVICISISU | 3.5 | 153.0 | 36.0 | 110 | PA66MP+ | Mustard (MST) | 100 pcs. | 2;4-6 | 111-01381 |
| | 3.5 | 153.0 | 36.0 | 110 | PA66MP+ | Russet (RUS) | 100 pcs. | 2;4-6 | 111-01384 |
| | 4.7 | 203.0 | 50.0 | 150 | PA66MP+ | Blue (BU) | 100 pcs. | 2-10 | 111-01343 |
| MCTS200 | 4.7 | 203.0 | 50.0 | 150 | PA66MP+ | Mint Green (MGN) | 100 pcs. | 2-10 | 111-01379 |
| IVIC13200 | 4.7 | 203.0 | 50.0 | 150 | PA66MP+ | Mustard (MST) | 100 pcs. | 2-10 | 111-01382 |
| | 4.7 | 203.0 | 50.0 | 150 | PA66MP+ | Russet (RUS) | 100 pcs. | 2-10 | 111-01385 |
| | 4.8 | 301.0 | 80.0 | 150 | PA66MP+ | Blue (BU) | 100 pcs. | 2-10 | 111-01399 |
| MCTS300 | 4.8 | 301.0 | 80.0 | 150 | PA66MP+ | Mint Green (MGN) | 100 pcs. | 2-10 | 111-01400 |
| 101013300 | 4.8 | 301.0 | 80.0 | 150 | PA66MP+ | Mustard (MST) | 100 pcs. | 2-10 | 111-01401 |
| | 4.8 | 301.0 | 80.0 | 150 | PA66MP+ | Russet (RUS) | 100 pcs. | 2-10 | 111-01402 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | | | |

Cable ties for food industry, detectable

The Metal Content Tie is a cable tie specifically designed for use in the food and pharmaceutical processing industries. A unique manufacturing process, involving the inclusion of a metallic pigment, enables even small 'cut-off' sections of the tie to be detected by standard metal-detecting equipment. Ideally suited for the installaton of cabling in and around the manufacturing process.

Features and benefits

- Manufactured from metal content Polypropylene
- High chemical and temperature resistance
- Blue color for easy visual detection
- Greatly reduces risk of contamination
- Magnetic and X-Ray detectable (detection level depending on specific application and equipment)
- MCTS ties have very good corrosion resistance
- Can support quality assurance in the production of food stuffs, for example HACCP

| L | | |
|--------|---|---|
| | I | w |
| MCT(S) | | |



MCTPP ties have a high chemical and temperature resistance.



The MCT ties made of PA66MP are the ideal complement for MCMB mounts on page 146.



Can support quality assurance in the production of food stuffs, for example HACCP.

MCT-Series / MCTS-Series PPMP

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ₹ N | Material | Colour | Pack Cont. | Tools | Article-No. |
|-----------|--------------|---------------|------------------|--------|----------|-----------|---------------|--------|-------------|
| MCTPP18R | 2.5 | 100.0 | 22.0 | 85 | PPMP | Blue (BU) | 100 pcs. | 2;4-6 | 111-01664 |
| MCTPP30R | 3.5 | 150.0 | 35.0 | 130 | PPMP | Blue (BU) | 100 pcs. | 2;4-6 | 111-01665 |
| MCTPP50R | 4.6 | 200.0 | 50.0 | 150 | PPMP | Blue (BU) | 100 pcs. | 2-10 | 111-01666 |
| MCTPP50L | 4.6 | 390.0 | 110.0 | 150 | PPMP | Blue (BU) | 100 pcs. | 2-12 | 111-01667 |
| MCTPP120R | 7.6 | 387.0 | 100.0 | 380 | PPMP | Blue (BU) | 100 pcs. | 3;9-12 | 111-01668 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

MCTS-Series, PPMP+

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S S S | Material | Colour | Pack Cont. | Tools | Article-No. |
|---------|--------------|---------------|------------------|-------------|----------|-----------|---------------|-------|-------------|
| MCTS200 | 4.7 | 201.0 | 50.0 | 140 | PPMP+ | Blue (BU) | 100 pcs. | 2-10 | 111-01386 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools

| Rec | ommended | TOOIS | | | | | | | | | |
|-----|----------|-------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

Cable Ties for thin-walled bundles

OS-Series

OS-Series cable ties are used in many areas where thin-walled or soft insulation wires and cable are being installed, for instance automotive and aircraft industry. OS ties manufactured from PA66V0 material are suitable for applications where safety regulations require reduction of smoke and dangerous gases.

Features and benefits

- Outside serrated cable tie with smooth surface to the bundle
- Tie follows the contours of the cable bundle perfectly
- Takes up less space due to curved head design
- Easy insertion combined with high tensile strength
- PA46 material for higher temperatures up to +150 °C
- PA66V0 cable ties fulfill Limited Fire Hazard requirements
- Easy application either manually or with a processing tool



Outside serrated OS-Series cable tie with smooth surface to the bundle.

The curved head design of the OS-Series

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Material specification

please see page 26.

| L | |
|---|--|
| | |

OS-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ر الا | Material | Colour | Pack Cont. | Tools | Article-No. |
|---------|--------------|---------------|------------------|------------------|----------|----------|--------------|---------------|--------|-------------|
| | 2.5 | 100.0 | 1.6 | 20.0 | 80 | PA66HS | Black (BK) | 500 pcs. | 2;4-6 | 118-04701 |
| - | 2.5 | 100.0 | 1.6 | 20.0 | 80 | PA66HS | Natural (NA) | 1,000 pcs. | 2;4-6 | 118-00035 |
| T18ROS | 2.5 | 100.0 | 1.6 | 20.0 | 80 | PA66V0 | White (WH) | 100 pcs. | 2;4-6 | 118-00079 |
| | 2.5 | 100.0 | 1.6 | 20.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 118-00125 |
| TOODOC | 3.4 | 145.0 | 1.6 | 35.0 | 135 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 118-00064 |
| T30ROS | 3.4 | 145.0 | 1.6 | 35.0 | 135 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 118-04800 |
| | 3.4 | 200.0 | 1.6 | 50.0 | 135 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 118-00044 |
| T201.05 | 3.4 | 200.0 | 1.6 | 50.0 | 135 | PA66V0 | White (WH) | 100 pcs. | 2;4-6 | 118-00080 |
| T30LOS | 3.4 | 200.0 | 1.6 | 50.0 | 135 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 118-00126 |
| | 3.4 | 200.0 | 1.6 | 50.0 | 135 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 118-04900 |
| T50SOS | 4.6 | 150.0 | 1.6 | 35.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2;4-8 | 118-05850 |
| | 4.6 | 200.0 | 1.6 | 50.0 | 225 | PA46 | Grey (GY) | 500 pcs. | 2;4-8 | 118-05078 |
| | 4.6 | 200.0 | 1.6 | 50.0 | 225 | PA66HS | Black (BK) | 500 pcs. | 2;4-8 | 118-05040 |
| T50ROS | 4.6 | 200.0 | 1.6 | 50.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2;4-8 | 118-05059 |
| | 4.6 | 200.0 | 1.6 | 50.0 | 225 | PA66V0 | White (WH) | 100 pcs. | 2;4-8 | 118-00065 |
| | 4.6 | 200.0 | 1.6 | 50.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2;4-8 | 118-00127 |
| | 4.6 | 245.0 | 1.6 | 66.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2;4-8 | 118-00018 |
| TEOMOC | 4.6 | 245.0 | 1.6 | 66.0 | 225 | PA66HS | Natural (NA) | 100 pcs. | 2;4-8 | 118-00055 |
| T50MOS | 4.6 | 245.0 | 1.6 | 66.0 | 225 | PA66V0 | White (WH) | 100 pcs. | 2;4-8 | 118-00081 |
| | 4.6 | 245.0 | 1.6 | 66.0 | 225 | PA66W | Black (BK) | 100 pcs. | 2;4-8 | 118-00128 |
| T50LOS | 4.6 | 384.0 | 1.6 | 110.0 | 225 | PA66HS | Black (BK) | 100 pcs. | 2;4-8 | 118-05900 |
| | 7.6 | 385.0 | 5.0 | 105.0 | 535 | PA66HS | Black (BK) | 100 pcs. | 3;9-12 | 118-00066 |
| T120D0C | 7.6 | 385.0 | 5.0 | 105.0 | 535 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12 | 118-00067 |
| T120ROS | 7.6 | 385.0 | 5.0 | 105.0 | 535 | PA66V0 | White (WH) | 100 pcs. | 3;9-12 | 118-00082 |
| | 7.6 | 385.0 | 5.0 | 105.0 | 535 | PA66W | Black (BK) | 100 pcs. | 3;9-12 | 118-00130 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



For product specific approvals and specifications please refer to the Appendix.

Cable Ties for high temperature applications up to +240 °C

PEEK Ties have been designed for the use in hazardous environment. Their suitablility for high temperature applications makes them ideal for use in the drilling industry, railway, offshore or automotive industry. The excellent chemical and radium ray resistance is predestined for applications in medical engineering, chemical industry and power stations. Within the aerospace industry, PEEK ties are suitable due to their good ratio weight to tensile strength. Because of this combination of different properties, PEEK ties can replace metal solutions.

Features and benefits

- For high temperature applications from -55 °C up to +240 °C
- Outside serrated cable tie with smooth surface to the bundle
- Close fit to the cable bundle due to the deepening head shape
- · Easy insertion combined with high tensile strength
- Takes up less space due to curved head design
- · Combines the performance of a metal tie with the ease of use of a polyamide cable tie
- · Manual and/or pneumatic tools available for greater process reliability



The contoured head takes up less space, gives a low insertion force and offers high strength.



One Step to the Web!

Please find more PEEK products for your



PEEK-Series

PEEK Ties, outside serrated

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ς ≥ | Colour | Material | Pack Cont. | Tools | Article-No. |
|------|--------------|---------------|------------------|------------------|--------|-------------|----------|---------------|-------|-------------|
| PT2A | 3.4 | 145.0 | 4.0 | 35.0 | 230 | Beige (BGE) | PEEK | 100 pcs. | 6-8 | 118-00032 |
| РТЗВ | 4.7 | 250.0 | 4.0 | 65.0 | 300 | Beige (BGE) | PEEK | 100 pcs. | 6-8 | 118-00116 |

All dimensions in mm. Subject to technical changes

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

PEEK Ties, inside serrated

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | S ≥ | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|--------------|---------------|------------------|------------------|--------|----------|-------------|---------------|---------|-------------|
| PT220 | 4.7 | 220.0 | 8.0 | 56.0 | 380 | PEEK | Beige (BGE) | 100 pcs. | 8;12;15 | 111-01235 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Teols

| Reco | ommende | | | | | | | | | | | |
|------|---------|------|-------|----------|------|-------|------|-----|------|--------|------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST |
| Â | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Cable Ties with 90° angled head

V-Series

Due to its low profile head, V-Series outside serrated cable ties are perfectly suited for applications with restricted space, such as camera, alarm and automation systems (Remote I/O Systems). Where bundles are fed through a grommet or ductwork, V-Series provides a practical solution due to its unique rounded design.

Features and benefits

- Outside serrated cable tie with smooth surface to the bundle
- The 90° angled head perfectly fits onto the bundle
- Rounded head design minimises the risk of damage to insulation, especially of parallel routed bundles
- Low profile head takes up less space above the bundle
- Easy insertion and high tensile strength
- Easy application either manually or with a processing tool



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V-Series is perfect for parallel bundles.



V-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | K ≥ | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|--------------|---------------|------------------|--------|----------|--------------|---------------|---------|-------------|
| V100R | 2.5 | 102.5 | 20.0 | 100 | PA46 | Grey (GY) | 1,000 pcs. | 2;4-6 | 118-00109 |
| VIUUK | 2.5 | 102.5 | 20.0 | 100 | PA66HS | Natural (NA) | 1,000 pcs. | 2;4-6 | 118-00074 |
| V150R | 3.3 | 150.0 | 35.0 | 150 | PA46 | Grey (GY) | 100 pcs. | 2;4-6;8 | 118-00107 |
| VISUK | 3.3 | 150.0 | 35.0 | 150 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6;8 | 118-00089 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | |
|-----|-------------------|-------|----------|------|------|--|--|--|--|--|--|--|
| | 2 | 4 | 5 | 6 | 8 | | | | | | | |
| | MK20 | MK3SP | MK3PNSP2 | EVO7 | MK7P | | | | | | | |
| | 551 | 552 | 552 | 554 | 556 | | | | | | | |



Designed primarily for use within the electrical supply industry these ties are particularly useful in areas with limited space. In addition the low profile head ensures there are no sharp edges. Coloured low profile cable ties are ideal for securing foam padding to playgroud equipment or for any identification purpose.

Features and benefits

- · Outside serrated cable tie with a smooth surface to bundle
- · Coloured cable ties can be used for identification
- · Broad contact area with cable, minimising risk of damage
- · Low profile head for use in restricted area
- · Parallel entry for enhanced fit around circular bundles



Low profile cable ties, RPE- and PE-Series.



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PE-Series coloured

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | K≥ | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|--------------|---------------|------------------|-----|----------|-------------|---------------|----------|-------------|
| PE180 | 9.0 | 180.0 | 42.0 | 445 | PA66HSW | Black (BK) | 100 pcs. | 1;3;9-12 | 112-18060 |
| | 9.0 | 400.0 | 116.0 | 445 | PA66 | Blue (BU) | 100 pcs. | 1;3;9-12 | 112-18101 |
| PE400 | 9.0 | 400.0 | 116.0 | 445 | PA66 | Green (GN) | 100 pcs. | 1;3;9-12 | 112-18100 |
| PE400 | 9.0 | 400.0 | 116.0 | 445 | PA66 | Red (RD) | 100 pcs. | 1;3;9-12 | 112-18102 |
| | 9.0 | 400.0 | 116.0 | 445 | PA66 | Yellow (YE) | 100 pcs. | 1;3;9-12 | 112-18103 |
| PE530 | 9.0 | 535.0 | 146.0 | 445 | PA66HSW | Black (BK) | 100 pcs. | 1;3;9-12 | 112-53060 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

RPE-Series releasable

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Z | Material | Colour | Pack Cont. | Article-No. |
|--------|--------------|---------------|------------------|-----|----------|------------|---------------|-------------|
| RPE275 | 9.0 | 275.0 | 69.0 | 445 | PA66HSW | Black (BK) | 100 pcs. | 112-27560 |
| RPE350 | 9.0 | 350.0 | 92.0 | 445 | PA66HSW | Black (BK) | 100 pcs. | 112-35060 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | | |
|-----|-------------------|------|-----|------|--------|------|--|--|--|--|--|--|
| | 1 | 3 | 9 | 10 | 11 | 12 | | | | | | |
| | MK10-SB | MK21 | MK6 | EVO9 | EVO9HT | MK9P | | | | | | |
| | 551 | 551 | 557 | 554 | 554 | 558 | | | | | | |





Cable ties with low profile head LPH-Series

LPH cable ties are made of Polyamide 6.6 materials. The design with its serration on the outside provides a smooth surface to the cable bundle. Any damage to the insulation can be avoided. The flat head design offers additional benefit in areas with restricted space. They are mainly used within the electrical supply industry but perfectly suited for construction, heavy duty applications or the automotive industry.

Features and benefits

- For more flexibility high impact modifed cable ties are available
- Good tensile strength with a single or a double bridged head
- Outside serration allows for a smooth surface to bundle
- Design protects against damage to cable insulation

Material specification please see page 26.

- Low profile head for optimized use especially in restricted areas
- Strap is threaded parallel through the low profile head



Low profile cable tie, LPH-Series.





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LPH175

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ς≥ | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|-----|------------|------------|---------------|----------|-------------|
| LPH175 | 9.0 | 175.0 | 40.0 | 310 | PA66 | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00203 |
| LPH275 | 9.0 | 265.0 | 62.0 | 480 | PA66HIR(S) | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00303 |
| LPH350 | 9.0 | 355.0 | 92.0 | 480 | PA66HIR(S) | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00403 |
| LPH500 | 9.0 | 505.0 | 140.0 | 540 | PA66HIR(S) | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00033 |
| LPH750 | 9.0 | 752.0 | 220.0 | 540 | PA66HIR(S) | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00034 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|------|-----|------|--------|------|--|--|--|--|--|
| | 1 | 3 | 9 | 10 | 11 | 12 | | | | | |
| | MK10-SB | MK21 | MK6 | EVO9 | evo9ht | MK9P | | | | | |
| | 551 | 551 | 557 | 554 | 554 | 558 | | | | | |

Cable ties with low profile head

Robusto-Series

Robusto cable ties manufactured from PA11 have many technical features making them suitable for use in a variety of applications to fix and support cables, pipes and other elements. They offer an excellent resistance to chemicals in most challenging environments like offshore or on oil rigs and construction vehicles. In addition the very good UV resistance makes it a perfect choice for solar panel cable installations.

Features and benefits

- Made of Polyamide 11 a sustainable bioplastic from vegetable oil
- Outside serrated cable tie with an innovative rounded head design
- Low insertion force for tool-free application
- High tensile strength with a single or a double bridged head
- Soft material for easy handling without damaging cables
- Very good UV resistance and durability in outdoor applications
- Stable technical performance even at very low temperatures
- High resistance to chemicals including chlorides
- · Low water absorption rate for consistent technical performance and high durability
- Prelocking function by simply pushing the strap through the eyelet provided





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Robusto (LPH962, LPH992)

Robusto (LPH942)

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Tools | Article-No. |
|------------------|--------------|---------------|------------------|--------|----------|------------|---------------|----------|-------------|
| Robusto (LPH922) | 9.0 | 123.0 | 22.0 | 310 | PA11 | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00025 |
| Robusto (LPH942) | 9.0 | 180.0 | 42.0 | 360 | PA11 | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00011 |
| Robusto (LPH962) | 9.0 | 260.0 | 62.0 | 530 | PA11 | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00012 |
| Robusto (LPH992) | 9.0 | 355.0 | 92.0 | 530 | PA11 | Black (BK) | 100 pcs. | 1;3;9-12 | 112-00013 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | ommended T | ools | | | | |
|-----|------------|------|-----|------|--------|------|
| | 1 | 3 | 9 | 10 | 11 | 12 |
| | MK10-SB | MK21 | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter



Flat head cable tie from sustainable bioplastic, Robusto-Series.



Application video. Robusto

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HellermannTyton 73

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Cable Tie locked by glass fibre pin

This cable tie is distinguished by its smooth strap and unique locking mechanism. The chamfered head of the KR-Series allows for a firm fit around the bundled element. Due to its special design KR-Series cable ties can be used as a safety method to bundle any cable and to also secure bellows on steering racks, water hoses or vacuum lines. The endless strap version is fairly flexible and can be cut to any length required. Separate heads are available to fix the strap.

Features and benefits

- Cable tie without serration to avoid any damage to cables
- Strap is locked into place with a glass-fibre reinforced pin
- · Very secure and vibration resistant fixing
- Available in various materials, colours and almost every length
- Cable ties from PA12 are highly resistant to chemicals, impact and UV light
- KR-ties up to 426 mm are made as one piece
- For assembly a special KR-tool is needed







The KR-Series has been repeatedly proven in high vibration applications.





The unlocked head of a KR-tie.

The cable tie (red) is locked into place with the pin.

KR-Series, 1-Piece



Cable tie KR-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S S | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------|-------------|
| | 6.1 | 360.0 | 93.0 | 490 | PA66 | Natural (NA) | 50 pcs. | 13 | 121-63519 |
| KR6/35 | 6.1 | 360.0 | 93.0 | 490 | PA66HS | Natural (NA) | 50 pcs. | 13 | 121-63555 |
| | 6.1 | 360.0 | 93.0 | 490 | PA66W | Black (BK) | 50 pcs. | 13 | 121-63560 |
| | 8.0 | 210.0 | 47.0 | 785 | PA66HS | Natural (NA) | 50 pcs. | 13-14 | 121-82155 |
| KR8/21 | 8.0 | 210.0 | 47.0 | 785 | PA66 | Natural (NA) | 50 pcs. | 13-14 | 121-82119 |
| | 8.0 | 210.0 | 47.0 | 785 | PA66W | Black (BK) | 50 pcs. | 13-14 | 121-82160 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|---------|--|--|--|--|--|--|--|--|--|
| | 13 14 | | | | | | | | | | |
| | KR6/8 | KR8PNSE | | | | | | | | | |
| | 559 | 559 | | | | | | | | | |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.

Date of issue: 10/2017

Cable Tie locked by glass fibre pin

KR-Series, 1-Piece



Cable tie KR-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------|-------------|
| | 8.0 | 337.0 | 86.0 | 390 | PA12 | Black (BK) | 50 pcs. | 13-14 | 121-83380 |
| | 8.0 | 337.0 | 86.0 | 785 | PA66 | Natural (NA) | 50 pcs. | 13-14 | 121-83319 |
| KR8/33 | 8.0 | 337.0 | 86.0 | 785 | PA46 | Grey (GY) | 50 pcs. | 13-14 | 121-83378 |
| | 8.0 | 337.0 | 86.0 | 785 | PA66HS | Natural (NA) | 50 pcs. | 13-14 | 121-83355 |
| | 8.0 | 337.0 | 86.0 | 785 | PA66W | Black (BK) | 50 pcs. | 13-14 | 121-83360 |
| KR8/43 | 8.0 | 426.0 | 105.0 | 785 | PA66HS | Black (BK) | 50 pcs. | 13-14 | 121-74360 |
| KN0/45 | 8.0 | 426.0 | 105.0 | 785 | PA66HS | Natural (NA) | 50 pcs. | 13-14 | 121-74359 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

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For product specific approvals and specifications please refer to the Appendix.

KR-Series, ultrasonic welded



Other dimensions are available on request.

Cable tie KR-Series, ultrasonic welded

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N | Material | Colour | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------|-------------|
| KR8/50 | 8.0 | 500.0 | 152.0 | 785 | PA66 | Natural (NA) | 50 pcs. | 13-14 | 121-05019 |
| KR8/60 | 8.0 | 600.0 | 184.0 | 785 | PA66W | Black (BK) | 50 pcs. | 13-14 | 121-06060 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

KR-Series, endless





Width R N Length Pack TYPE (W) (L) Material Colour Cont. Tools Article-No. 50.0 m 8.0 785 PA66HS Natural (NA) 50.0 m 13-14 121-98151 KR8/S1 8.0 50.0 m 785 PA66W Black (BK) 50.0 m 13-14 121-98160 11.7 38.0 PA66HS Natural (NA) _ 200 pcs. 13-14 121-58551 KR8/C5 PA66W Black (BK) 200 pcs. 13-14 121-58560 11.7 38.0 _

All dimensions in mm. Subject to technical changes

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Endless cable ties with separate head and spacer EL-TY-Series

These robust cable ties are particularly suitable for use with larger diameter cables, pipes and hoses. Designed originally for securing overhead, catenary and cables they are now used in many industries from the building sector, through to the chemical industry, to the installation of signs for traffic management. Separate spacers allow for a defined distance when bundling in parallel.

Features and benefits

- Made of very strong Polyacetal (POM)
- System consists of endless strap, spacers and heads
- Head includes stainless steel pawls for a proper fixation
- Very secure fixing and good resistance to ageing and UV light
- Suits any bundle diameter and reduces inventory



The EL-TY strap can be cut to suit any bundle.



| lload | (Front | View |
|-------|--------|------|
| | | |

Head (Plain View)

Head (Side View)

Strap

| ТҮРЕ | Width (W) | Length (L) | Height (H) | K ≥ | Strap Width max. (G) | Material | Colour | Content | Tools | Article-No. |
|-------------------|--------------|---------------|---------------|--------|----------------------------|----------|------------|---------------------|-------|-------------|
| EL-TY (TELS1) | 12.7 | 15.2 m | - | 1,112 | - | POM | Black (BK) | 15m Strap, 30 Heads | 11 | 111-30000 |
| EL-TY (TELSH) | 20.3 | 15.8 | 12.4 | - | 12.7 | POM | Black (BK) | 25 Heads | - | 111-31000 |
| EL-TY (TELS-SPK2) | 53.3 | 30.5 | 17.0 | - | 12.7 | PP | Black (BK) | 50 Spacer | - | 111-32000 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | |
|-----|-------------------|--|--|--|--|--|--|--|--|--|
| | 11 | | | | | | | | | |
| | evo9ht | | | | | | | | | |
| | 554 | | | | | | | | | |



Cable Ties inside serrated

Used in a wide range of industries these releasable and reusable ties are ideal where changes are anticipated. This includes temporary installation and the addition or removal of elements. These releasable cable ties are commonly used to fix stage equipment, for cable management at outdoor events or prototype harnessing work. The extended pawl is simply pushed down with a finger to release the strap.

Features and benefits

- Releasable and reusable cable tie
- Multiple grades of PA66 for indoors, outdoors or at high temperatures
- · Available in black and natural colour
- Extended trigger for simple and quick release of ties
- Inside serrated cable tie
- Different lengths available



Application video RELK

RELK releasable cable ties for temporary bundling.



RELK-, RLT-Series

RELK-Series up to 200 N loop tensile strength

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Я N | Material | Colour | Pack Cont. | Article-No. |
|----------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------------|
| RELK2R | 4.6 | 200.0 | 50.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 115-02202 |
| RELK2M | 4.6 | 250.0 | 65.0 | 200 | PA66 | Black (BK) | 100 pcs. | 115-02000 |
| RELNZIVI | 4.6 | 250.0 | 65.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 115-06729 |
| | 4.6 | 300.0 | 81.0 | 200 | PA66 | Black (BK) | 100 pcs. | 115-06760 |
| RELK2I | 4.6 | 300.0 | 81.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 115-02101 |
| | 4.6 | 350.0 | 95.0 | 200 | PA66 | Black (BK) | 100 pcs. | 115-02300 |
| RELK2L | 4.6 | 350.0 | 95.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 115-06919 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

RLT-Series up to 670 N loop tensile strength

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Article-No. |
|---------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------------|
| RLT120 | 7.6 | 340.0 | 90.0 | 535 | PA66 | Black (BK) | 100 pcs. | 111-70361 |
| KLI IZU | 7.6 | 340.0 | 90.0 | 535 | PA66 | Natural (NA) | 100 pcs. | 111-70319 |
| | 8.9 | 770.0 | 225.0 | 670 | PA66 | Black (BK) | 50 pcs. | 111-70110 |
| RLT150 | 8.9 | 770.0 | 225.0 | 670 | PA66 | Natural (NA) | 50 pcs. | 111-70119 |
| KLI ISU | 8.9 | 770.0 | 225.0 | 670 | PA66HS | Natural (NA) | 50 pcs. | 111-70159 |
| | 8.9 | 770.0 | 225.0 | 670 | PA66W | Black (BK) | 50 pcs. | 111-70160 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.







Cable Ties inside serrated with tuckaway

The RT250 is a releasable cable tie. Due to its minimum loop tensile strength of 1,115 N the cable tie is perfectly suited to fix larger and/ or heavier bundles. RT250 can be opened and re-used. UV resistant cable ties manufactured from PA66W are recommended for outdoor applications. For shorter lengths REL250-Series can be offered.

Features and benefits

- Releasable and reusable cable tie
- Suitable for larger and/or heavier bundles
- Eyelet allows excess tail to be tucked neatly away
- · Available in black and natural colour
- Extended trigger for simple and quick release of ties
- Protected trigger to avoid accidental release
- RT250 cable ties are inside serrated



Ideal for larger or heavier bundles these ties can be opened and reused.



RT250-Series

RT250-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Article-No. |
|---------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------------|
| | 12.5 | 565.3 | 150.0 | 1,115 | PA66 | Black (BK) | 25 pcs. | 131-75610 |
| RT250M | 12.5 | 565.3 | 150.0 | 1,115 | PA66 | Natural (NA) | 25 pcs. | 131-75619 |
| | 12.5 | 565.3 | 150.0 | 1,115 | PA66W | Black (BK) | 25 pcs. | 131-75620 |
| RT250XL | 12.5 | 1,030.0 | 305.0 | 1,115 | PA66 | Black (BK) | 25 pcs. | 131-75510 |
| RIZOUAL | 12.5 | 1,030.0 | 305.0 | 1,115 | PA66 | Natural (NA) | 25 pcs. | 131-75519 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Releasable cable tie REL250-Series

REL250-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | کر ا | Material | Colour | Pack Cont. | Article-No. |
|---------|--------------|---------------|------------------|---------|------------|------------|---------------|-------------|
| REL250S | 12.2 | 230.0 | 50.0 | 1,115 | PA66HIR(S) | Black (BK) | 50 pcs. | 111-00074 |
| REL250X | 12.2 | 385.0 | 100.0 | 1,115 | PA66HIR(S) | Black (BK) | 50 pcs. | 111-00075 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.





Cable Ties inside serrated with kickdown lever **REL-Series**

The REL-Series is ideally used in applications where changes are anticipated and a tie need to be opened and closed repeatedly. The release mechanism of an REL cable tie allows simple and quick opening with only one hand. UV resistant cable ties manufactured from PA66W are recommended for outdoor applications.

Features and benefits

- Releasable and reusable cable tie for medium-weight loads
- Extremely easy-to-operate release mechanism
- Opens simply and quickly with only one hand
- Also available in PA66W for outdoor applications
- REL cable ties have their serration on the inside





Releasable and reusable cable tie, REL-Series.

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| | Tw |

REL-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Article-No. |
|---------|--------------|---------------|------------------|--------|----------|--------------|---------------|-------------|
| REL180 | 6.5 | 180.0 | 46.0 | 150 | PA66 | Black (BK) | 100 pcs. | 115-00027 |
| REL100 | 6.7 | 100.0 | 21.0 | 180 | PA66 | Black (BK) | 100 pcs. | 131-21010 |
| RELIUU | 6.7 | 100.0 | 21.0 | 180 | PA66 | Natural (NA) | 100 pcs. | 131-21019 |
| REL140 | 7.6 | 150.0 | 35.0 | 200 | PA66 | Black (BK) | 100 pcs. | 131-21410 |
| REL 140 | 7.6 | 150.0 | 35.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 131-21419 |
| | 7.6 | 250.0 | 68.0 | 200 | PA66 | Black (BK) | 100 pcs. | 131-22510 |
| REL250 | 7.6 | 250.0 | 68.0 | 200 | PA66 | Natural (NA) | 100 pcs. | 131-22519 |
| | 7.6 | 250.0 | 68.0 | 200 | PA66W | Black (BK) | 100 pcs. | 131-22560 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.





Cable Ties outside serrated for marking LR55-Series

Releasable cable ties of our LR55-Series offer some extra benefits. Their serration is on the outside of the cable tie. This will minimise the risk of damage to cables or other elements. Additionally LR55 cable ties are available in different colours – optimally suited for temporary identification within logistic, packaging, cable harness production or for testing purposes. The strap is released when pushing the extended pawl upwards. The risk of opening the cable tie accidentally is minimised.

Features and benefits

- Releasable and reusable cable tie
- Various colours for applications needing colour coding
- Extended trigger for simple and quick release of ties
- Risk of accidental release is minimised
- · Outside serration prevents damage to cable insulation



Application video LR55



Releasable and outside serrated LR55 cable ties are ideal suited for colour coding.







LR55-Series

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | κz | Material | Colour | Pack Cont. | Article-No. |
|-------|--------------|---------------|------------------|-----|----------|--------------|---------------|-------------|
| | 4.7 | 195.0 | 50.0 | 245 | PA66 | Blue (BU) | 25 pcs. | 115-00006 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66 | Green (GN) | 25 pcs. | 115-00005 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66 | Natural (NA) | 25 pcs. | 115-00008 |
| LR55R | 4.7 | 195.0 | 50.0 | 245 | PA66 | Red (RD) | 25 pcs. | 115-00003 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66 | Yellow (YE) | 25 pcs. | 115-00004 |
| | 4.7 | 195.0 | 50.0 | 245 | PA66HS | Black (BK) | 25 pcs. | 115-00002 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Cable Ties without serration in flexible TPU

The soft, flexible material makes these ties particulary suitable for use on sensible wires for instance fibre-optic cables. Additionally they are suitable for moving elements and vibrating applications. The double slotted head allows for parallel bundling.

Features and benefits

- Elastic and flexible cable ties with rounded and smooth edges
- · Releasable and reusable
- Double slotted head with fixation pawl
- · Flexibility ensures steady and evenly distributed pressure
- · Tight fixation even in vertical position: prevent sliding down or loosing bundle
- · Suitable for moving elements and vibrating applications like windmills, machines, robotics, pulsating tubing and conduits
- · Ideal use for temporarily fixation for presentations, concerts, theatres, exhibitions
- · Long lifetime when used indoor
- Remains flexible even at cold temperatures (-20°C)





Application video SOFTFIX

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SRT- and SOFTFIX-Series

SRT-Series for industry quantities



The elasticity of the SOFTIX ties makes them suitable for use in many applications.



SOFTFIX ties available in small packaging units.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر الا | Material | Colour | Pack Cont. | Article-No. |
|----------|--------------|---------------|------------------|----------|----------|------------|---------------|-------------|
| SRT1807 | 7.0 | 180.0 | 45.0 | 57 | TPU | Black (BK) | 50 pcs. | 115-07189 |
| SRT2607 | 7.0 | 260.0 | 79.0 | 57 | TPU | Black (BK) | 50 pcs. | 115-07269 |
| SRT26011 | 11.0 | 260.0 | 55.0 | 123 | TPU | Black (BK) | 50 pcs. | 115-11269 |
| SRT34011 | 11.0 | 340.0 | 90.0 | 123 | TPU | Black (BK) | 50 pcs. | 115-11349 |
| SRT58028 | 28.0 | 580.0 | 150.0 | 360 | TPU | Black (BK) | 10 pcs. | 115-28589 |
| SRT88028 | 28.0 | 880.0 | 240.0 | 360 | TPU | Black (BK) | 180 pcs. | 115-28889 |

All dimensions in mm. Subject to technical changes

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

SOFTFIX-Family

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N | Material | Colour | Pack Cont. | Article-No. |
|-------------|--------------|---------------|------------------|--------|----------|------------|---------------|-------------|
| SOFTFIX XS | 7.0 | 180.0 | 45.0 | 57 | TPU | Black (BK) | 16 pcs. | 115-07190 |
| SOFTFIX S | 7.0 | 260.0 | 79.0 | 57 | TPU | Black (BK) | 12 pcs. | 115-07270 |
| SOFTFIX M | 11.0 | 260.0 | 55.0 | 123 | TPU | Black (BK) | 8 pcs. | 115-11270 |
| SOFTFIX L | 11.0 | 340.0 | 90.0 | 123 | TPU | Black (BK) | 6 pcs. | 115-11350 |
| SOFTFIX XL | 28.0 | 580.0 | 150.0 | 360 | TPU | Black (BK) | 3 pcs. | 115-28590 |
| SOFTFIX XXL | 28.0 | 880.0 | 240.0 | 360 | TPU | Black (BK) | 3 pcs. | 115-28898 |

All dimensions in mm. Subject to technical changes

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable Ties inside serrated with one-hand release mechanism

REZ-Series

Perfect for use in the packaging industry as a bag closure where access to part of the bag content may be needed but the bag need to be resealed later. Something that often occurs for instance in the catering or service industry. In addition the cable tie can be opened easily with only two fingers by simply pushing the wings of the unique head.

Features and benefits

REZ-Series

- REZ-Series can be released and reused
- Unique head design for simple and rapid use
- Quick-release mechanism for one-hand operation
- Cable tie can be opened even when under tension
- Can still be released when working with gloves

Material specification



The REZ ties have a one-hand, simple release mechanism.





Application video REZ

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Material | Colour | Pack Cont. | Article-No. |
|--------|--------------|---------------|------------------|--------|----------|-------------------------|---------------|-------------|
| | 4.7 | 200.0 | 50.0 | 135 | PA66 | Black (BK) | 100 pcs. | 115-40200 |
| REZ200 | 4.7 | 200.0 | 50.0 | 135 | PA66 | Fluorescent Pink (FLPK) | 100 pcs. | 115-00147 |
| REZZUU | 4.7 | 200.0 | 50.0 | 135 | PA66 | Green (GN) | 100 pcs. | 115-00106 |
| | 4.7 | 200.0 | 50.0 | 135 | PA66 | Orange (OG) | 100 pcs. | 115-00132 |
| REZ300 | 4.7 | 305.0 | 80.0 | 135 | PA66 | Black (BK) | 100 pcs. | 115-40300 |
| REZSUU | 4.7 | 305.0 | 80.0 | 135 | PA66 | Fluorescent Pink (FLPK) | 100 pcs. | 115-00138 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable Tie with quick release mechanism

SpeedyTie

The versatility of the SpeedyTie means that it is suitable for a multitude of applications like electro installations, heating and ventilation, construction, exhibitions and trade fairs. Whether it is used for permanent or temporarily solutions the SpeedyTie is a very strong helping hand in every situation.

Features and benefits

- Releasable and reusable cable tie
- Bears loads of up to 888 N (approx. 90 kg)
- 750 mm long for use in a wide variety of applications
- Can be used for parallel bundling
- Easy to handle when wearing work gloves
- Available in signal yellow and in black



Application video. SpeedyTie

Excess tails can be neatly tucked away.



SpeedyTie

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ς≥ | Material | Colour | Pack Cont. | Article-No. |
|----------------------|--------------|---------------|------------------|-----|------------|-----------------------|---------------|-------------|
| | 13.0 | 752.0 | 210.0 | 888 | PA66 | Yellow (YE), Red (RD) | 5 pcs. | 115-00001 |
| SpeedyTie (RTT750HR) | 13.0 | 752.0 | 210.0 | 888 | PA66 | Yellow (YE), Red (RD) | 25 pcs. | 115-00000 |
| | 13.0 | 752.0 | 210.0 | 888 | PA66HIR(S) | Black (BK) | 5 pcs. | 115-00030 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

83



Hook and Loop Ties

TEXTIE-Series

The TEXTIE-Series offers a soft bundling method and is ideal for use on telephone cables, optical fibre and network cables. These cable ties can be reopened and reused up to 400 times. A perfect solution for temporary installations and cable management for stage equipment, at outdoor events or for prototype harnessing. Maybe it is simply used in private or office applications. TEXTIE cable ties are available in various colours and can be used to colour-code cables and/or wires.

Features and benefits

- Quick and simple to use without tools
- Re-usable up to 400 times

TEXTIE-Series

- Various colours for easy identification
- · For indoor and outdoor use
- Can be attached to the bundle permanently
- Resistant to ageing, no corrosion



L



Due to the functional cable tie design the TEXTIE is fixed on the cable and cannot get lost.



. The TEXTIE-Series is available in different colours and lengths.





| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Material Loop | Material Hook | Colour | Pack Cont. | Article-No. |
|-------------------|--------------|---------------|------------------|----------------------|--------------------|-------------|---------------|-------------|
| TEXTIE S | 12.5 | 150.0 | 45.0 | Polyamide 6.6 (PA66) | Polypropylene (PP) | Black (BK) | 10 pcs. | 130-00012 |
| | 12.5 | 200.0 | 60.0 | Polyamide 6.6 (PA66) | Polypropylene (PP) | Black (BK) | 10 pcs. | 130-00013 |
| | 12.5 | 200.0 | 60.0 | Polyamide 6.6 (PA66) | Polypropylene (PP) | Blue (BU) | 10 pcs. | 130-00018 |
| TEXTIE M | 12.5 | 200.0 | 60.0 | Polyamide 6.6 (PA66) | Polypropylene (PP) | Green (GN) | 10 pcs. | 130-00017 |
| | 12.5 | 200.0 | 60.0 | Polyamide 6.6 (PA66) | Polypropylene (PP) | Red (RD) | 10 pcs. | 130-00014 |
| | 12.5 | 200.0 | 60.0 | Polyamide 6.6 (PA66) | Polypropylene (PP) | White (WH) | 10 pcs. | 130-00021 |
| | 12.5 | 200.0 | 60.0 | Polyamide 6.6 (PA66) | Polypropylene (PP) | Yellow (YE) | 10 pcs. | 130-00016 |
| TEXTIE L | 12.5 | 330.0 | 100.0 | Polyamide 6.6 (PA66) | Polypropylene (PP) | Black (BK) | 10 pcs. | 130-00019 |
| TEXTIE 5M | 12.5 | 5,000.0 | - | Polyamide 6.6 (PA66) | Polypropylene (PP) | Black (BK) | 1 pc. | 130-00020 |
| TEXTIE 25M | 13.0 | 25,000.0 | - | Polyamide 6.6 (PA66) | Polypropylene (PP) | Black (BK) | 1 pc. | 130-00022 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Cable Ties and Fixings

Technical Information

Short Circuit Test (SCT) The alternative to cable cleats

HellermannTyton's single and double wrap Metal Ball (MBT) and Buckle Ties (AMT) fully withstand the maximum force of short circuits in trefoil formation according to the results of laboratory tests performed using the parameters outlined in the IEC 61914:2009 cable cleat standard.

The tests conducted by the NEFI High Power Laboratory in Norway – a member of the Scandinavian Association for Testing of Electric Power Equipment (SATS) – demonstrated that our MBT and AMT stainless steel cable ties resist the huge forces unleashed by power cables in the event of a short circuit, even when they are installed in a 'worst case' trefoil formation scenario (see drawing below).

Construction of the HellermannTyton SCT

The MBT and AMT metal ties were insulated from the cable jackets with LFPC polyolefin protective channels as an added layer of protection. Two different cable sizes, Ø 36 mm (300 mm²) and Ø 13 mm (50 mm²), each with 3 cables 8 m in length in trefoil formation, were tested with short circuit times between 0.2 and 0.5 seconds at various current levels.

Advantages of using HellermannTyton stainless steel cable ties over cable cleats:

- Suitable for indoor and outdoor environments
- Very good heat and chemical resistance
- Due to the range of strap lengths and widths it is easy to choose a solution for every application
- · Only one cable tie for many different cable diameters
- Lower installation costs
- · Low inventory value

Conclusion

• With the SCT we have proven that our MBT and AMT cable ties are suitable for low and medium voltage cable and withstand a certain level of short circuit currents.

The stainless steel cable ties from HellermannTyton are a time saving solution with a low price and low installation cost.



Double wrap stainless steel cable ties, uncoated, MBT_UHD.



AMT Ties with and without protective profile.





Best practice for installation in trefoil formation. Ties should be bundled as closely as possible to the cables for a smooth loop and to avoid sharp edges.

Please note that the information provided here is no substitute for a suitability test of your individual application.

Cable ties with ball-lock

MBT-Series, stainless steel 304

Metal ties are ideal for all applications that require high strength, reliability and fire resistance. The MBT range of stainless steel cable ties can be used in chemical industries and on oil platforms as well as in mass transit, shipbuilding and mining industries. MBT ties are also suitable for machine building, construction and in the outside area of radio technology. Additionally MBT ties are ideal for securing lighting in theatres and exhibition halls.

Features and benefits

- Cable ties MBT, made from stainless steel 304
- Non-releasable locking feature
- Corrosion resistant
- Weather resistant
- Outstanding chemical resistance
- High temperature resistant
- Non-burning





Stainless steel cable ties, uncoated, MBT_SS, MBT_HS.

Stainless Steel Cable Ties, uncoated, MBT_XHS.



I The MBT-Series (up to 7.9 mm) can be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution. Please see page 160.





L.

| MBT-Series i | 12.3 | тт | width |
|--------------|------|----|-------|
|--------------|------|----|-------|

| T)/DF | Width | Length | Bundle Ø | Bundle Ø | ر الا | | Pack | | |
|----------|-------|--------|----------|----------|----------|----------|----------|-------|-------------|
| TYPE | (W) | (L) | min. | max. | Ċ | Material | Cont. | Tools | Article-No. |
| MBT5SS | 4.6 | 127.0 | 12.0 | 25.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93058 |
| MBT8SS | 4.6 | 201.0 | 17.0 | 50.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93088 |
| MBT14SS | 4.6 | 362.0 | 17.0 | 102.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93148 |
| MBT20SS | 4.6 | 521.0 | 17.0 | 152.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93208 |
| MBT27SS | 4.6 | 685.0 | 17.0 | 203.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93278 |
| MBT33SS | 4.6 | 838.0 | 17.0 | 254.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93338 |
| MBT8HS | 7.9 | 201.0 | 17.0 | 50.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94088 |
| MBT14HS | 7.9 | 362.0 | 17.0 | 102.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94148 |
| MBT20HS | 7.9 | 521.0 | 17.0 | 152.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94208 |
| MBT27HS | 7.9 | 685.0 | 17.0 | 203.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94278 |
| MBT33HS | 7.9 | 838.0 | 17.0 | 254.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94338 |
| MBT14XHS | 12.3 | 362.0 | 17.0 | 102.0 | 2,700 | SS304 | 50 pcs. | 15-18 | 111-95148 |
| MBT20XHS | 12.3 | 521.0 | 17.0 | 152.0 | 2,700 | SS304 | 50 pcs. | 15-18 | 111-95208 |
| MBT27XHS | 12.3 | 681.0 | 17.0 | 203.0 | 2,700 | SS304 | 50 pcs. | 15-18 | 111-95278 |
| MBT33XHS | 12.3 | 838.0 | 17.0 | 254.0 | 2,700 | SS304 | 50 pcs. | 15-18 | 111-95338 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | |
|-----|-------------------|---------|-------|------------|--|--|--|--|--|--|
| | 15 | 16 | 17 | 18 | | | | | | |
| | MK9SST | MK9PSST | HDT16 | KST-STG200 | | | | | | |
| | 560 | 560 | 561 | 561 | | | | | | |

Cable Ties and Fixings

Cable Ties, Stainless Steel

Cable ties with ball-lock

MBT-Series, stainless steel 316

Metal ties are predestined for all areas with requirements for high holding force, reliability and fire resistance. The MBT range of stainless steel cable ties can be used in chemical industry and on oil platform as well as in mass transit, shipbuilding and mining industry. MBT ties are also suitable for machine building, apparatus construction and in the outside area of radio technology. Additionally MBT ties are a good solution to fix lighting in theatres and exhibition halls.

Features and benefits

- MBT cable ties made from stainless steel 316
- Non-releasable locking feature
- Corrosion resistant
- Weather resistant
- Outstanding chemical resistance
- Antimagnetic
- High temperature resistant
- Non-burning

Material specification please see page 26.



MBT-Series 4.6 mm and 7.9 mm width

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ر الا | Material | Pack Cont. | Tools | Article-No. |
|--------|--------------|---------------|------------------|------------------|----------|----------|---------------|-------|-------------|
| MBT5S | 4.6 | 127.0 | 12.0 | 25.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93059 |
| MBT8S | 4.6 | 201.0 | 12.0 | 50.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93089 |
| MBT14S | 4.6 | 362.0 | 12.0 | 102.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93149 |
| MBT20S | 4.6 | 521.0 | 12.0 | 152.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93209 |
| MBT27S | 4.6 | 685.0 | 12.0 | 203.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93279 |
| MBT33S | 4.6 | 838.0 | 12.0 | 254.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93339 |
| MBT8H | 7.9 | 201.0 | 12.0 | 50.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94089 |
| MBT14H | 7.9 | 362.0 | 12.0 | 102.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94149 |
| MBT20H | 7.9 | 521.0 | 12.0 | 152.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94209 |
| MBT27H | 7.9 | 685.0 | 12.0 | 203.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94279 |
| МВТЗЗН | 7.9 | 838.0 | 12.0 | 254.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94339 |

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All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | commended Tools | | | | | | | | | |
|-----|-----------------|---------|-------|------------|--|--|--|--|--|--|
| | 15 | 16 | 17 | 18 | | | | | | |
| | MK9SST | MK9PSST | HDT16 | KST-STG200 | | | | | | |
| | 560 | 560 | 561 | 561 | | | | | | |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



unness steer cable ties, uncoatea, wib1_5, wib1_

Can support quality assurance

The MBT-Series (up to 7.9 mm) can be

used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable

in the production of food

stuffs, for example HACCP.

fixing solution. Please see page 160.

Cable ties with ball-lock MBT-Series, stainless steel 316





MBT-Series 12.3 mm width

Я [N] Width Length Bundle Ø Bundle Ø Pack TYPE (W) (L) min. max. Material Cont. Tools Article-No. 12.3 MBT14XH 362.0 12.0 102.0 SS316 111-95149 2,700 50 pcs. 15-18 MBT20XH 521.0 152.0 2,700 12.3 12.0 SS316 50 pcs. 15-18 111-95209 15-18 MBT27XH 12.3 681.0 12.0 203.0 2,700 SS316 111-95279 50 pcs. **МВТЗЗХН** 12.3 838.0 12.0 254.0 2,700 SS316 50 pcs. 15-18 111-95339 MBT14UH 16.0 362.0 12.0 102.0 4,100 SS316 50 pcs. 15;17 111-01301 MBT20UH 12.0 16.0 521.0 152.0 4,100 SS316 50 pcs. 15;17 111-01302 MBT27UH 16.0 681.0 12.0 203.0 4,100 SS316 50 pcs. 15;17 111-01303 MBT33UH 16.0 838.0 12.0 254.0 4,100 SS316 50 pcs. 15;17 111-01304 MBT43UH 16.0 1,092.0 12.0 330.0 4,100 SS316 25 pcs. 15;17 111-01305 MBT49UH 111-01306 16.0 1,245.0 12.0 380.0 4,100 SS316 25 pcs. 15;17

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | |
|-----|-------------------|---------|-------|------------|--|--|--|--|--|
| | 15 | 16 | 17 | 18 | | | | | |
| | MK9SST | MK9PSST | HDT16 | KST-STG200 | | | | | |
| | 560 | 560 | 561 | 561 | | | | | |



Cable Ties and Fixings

Cable Ties, Stainless Steel

Double wrap cable ties with ball-lock

MBTXHD- / MBTUHD-Series, stainless steel 316

The double wrap ties of the MBT-series are used in applications where a fixing requires an extraordinary high tensile strength.

Features and benefits

- Stainless steel MBT ties with double wrap operation
- Wraps around the bundle and passes through the head twice
- Very high tensile strength to carry enormous applied loads
- Head with two locking balls
- Resistant to arduous conditions and environments

stuffs, for example HACCP.

Material specification please see page 26.

Can support quality assurance in the production of food



Double wrap stainless steel cable ties, uncoated, MBT_UHD.



| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ر ا | Material | Pack Cont. | Tools | Article-No. |
|----------|--------------|---------------|------------------|------------------|--------|----------|---------------|-------|-------------|
| MBT27XHD | 12.3 | 681.0 | 17.0 | 100.0 | 5,000 | SS316 | 50 pcs. | 15-18 | 111-01307 |
| MBT33XHD | 12.3 | 838.0 | 17.0 | 120.0 | 5,000 | SS316 | 50 pcs. | 15-18 | 111-01308 |
| MBT43XHD | 12.3 | 1,092.0 | 17.0 | 160.0 | 5,000 | SS316 | 25 pcs. | 15-18 | 111-01309 |
| MBT49XHD | 12.3 | 1,245.0 | 17.0 | 180.0 | 5,000 | SS316 | 25 pcs. | 15-18 | 111-01310 |
| MBT60XHD | 12.3 | 1,524.0 | 17.0 | 230.0 | 5,000 | SS316 | 25 pcs. | 15-18 | 111-01311 |
| MBT27UHD | 16.0 | 681.0 | 25.0 | 100.0 | 7,000 | SS316 | 50 pcs. | 15;17 | 111-01312 |
| MBT33UHD | 16.0 | 838.0 | 25.0 | 120.0 | 7,000 | SS316 | 50 pcs. | 15;17 | 111-01313 |
| MBT43UHD | 16.0 | 1,092.0 | 25.0 | 160.0 | 7,000 | SS316 | 25 pcs. | 15;17 | 111-01314 |
| MBT49UHD | 16.0 | 1,245.0 | 25.0 | 180.0 | 7,000 | SS316 | 25 pcs. | 15;17 | 111-01315 |
| MBT60UHD | 16.0 | 1,524.0 | 25.0 | 230.0 | 7,000 | SS316 | 25 pcs. | 15;17 | 111-01316 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | |
|-----|-------------------|---------|-------|------------|--|--|--|--|--|--|
| | 15 | 16 | 17 | 18 | | | | | | |
| | MK9SST | MK9PSST | HDT16 | KST-STG200 | | | | | | |
| | 560 | 560 | 561 | 561 | | | | | | |

For more information on toolings please refer to the Application Tooling chapter.

HellermannTyton 89



Cable ties with ball-lock and coating

MBT-FC-Series, stainless steel 316

The MBT range of stainless steel cable ties can be used in the most arduous of conditions or where the additional security, strength and fire resistance of a metal fixing is required. Used in all industries from mass transit, ship building, oil rigs, mining and chemical industry, theatres and exhibition halls. In the event of a fire, cables will remain securely held in place and will not fall to block emergency exits. Fully coated ties can also be used to avoid any reflection. An important consideration for instance in the defence industry.

Features and benefits

- Fully coated MBT, made from type 316 stainless steel with polyester coating
- Non-releasable locking feature
- Coated cable tie with smooth edges
- Comfortable handling and installation
- · Eliminates contact corrosion between dissimilar materials during application

The MBT-Series (up to 7.9 mm) can be i used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution. Please see page 160.

Material specification please see page 26.

| L | L | 1 |
|---|---|---|
| | | |

MBT-Series 4.6 mm and 7.9 mm width

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ر ا | Material | Pack Cont. | Tools | Article-No. |
|----------|--------------|---------------|------------------|------------------|--------|-----------|---------------|-------|-------------|
| MBT5SFC | 4.6 | 127.0 | 15.0 | 25.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00288 |
| MBT8SFC | 4.6 | 201.0 | 17.0 | 50.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00289 |
| MBT14SFC | 4.6 | 362.0 | 17.0 | 102.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00290 |
| MBT20SFC | 4.6 | 521.0 | 17.0 | 152.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00291 |
| MBT27SFC | 4.6 | 681.0 | 17.0 | 203.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00292 |
| MBT33SFC | 4.6 | 838.0 | 17.0 | 254.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00293 |
| MBT8HFC | 7.9 | 201.0 | 17.0 | 50.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00294 |
| MBT14HFC | 7.9 | 362.0 | 17.0 | 102.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00295 |
| MBT20HFC | 7.9 | 521.0 | 17.0 | 152.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00296 |
| MBT27HFC | 7.9 | 681.0 | 17.0 | 203.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00297 |
| MBT33HFC | 7.9 | 838.0 | 17.0 | 254.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00298 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | | |
|-----|-------------------|---------|-------|------------|--|--|--|--|--|--|
| | 15 | 16 | 17 | 18 | | | | | | |
| | MK9SST | MK9PSST | HDT16 | KST-STG200 | | | | | | |
| | 560 | 560 | 561 | 561 | | | | | | |







Stainless steel cable ties, coated, MBT_XHFC.

≥⊺w

Cable ties with ball-lock and coating

MBT-FC-Series, stainless steel 316

| L | L |
|--------------------------|--------------------------|
| [8] | |
| MBT-Series 12.3 mm width | MBT-Series 16.0 mm width |

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ر الا | Material | Pack Cont. | Tools | Article-No. |
|-----------|--------------|---------------|------------------|------------------|----------|-----------|---------------|-------|-------------|
| MBT14XHFC | 12.3 | 362.0 | 17.0 | 102.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-00299 |
| MBT17XHFC | 12.3 | 434.0 | 17.0 | 125.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-01500 |
| MBT20XHFC | 12.3 | 521.0 | 17.0 | 152.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-00300 |
| MBT23XHFC | 12.3 | 575.0 | 17.0 | 168.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-01501 |
| MBT27XHFC | 12.3 | 681.0 | 17.0 | 203.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-00301 |
| MBT30XHFC | 12.3 | 754.0 | 17.0 | 225.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-01502 |
| MBT33XHFC | 12.3 | 838.0 | 17.0 | 254.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-00302 |
| MBT43XHFC | 12.3 | 1,092.0 | 17.0 | 330.0 | 1,620 | SS316, SP | 25 pcs. | 15-18 | 111-01503 |
| MBT49XHFC | 12.3 | 1,245.0 | 17.0 | 380.0 | 1,620 | SS316, SP | 25 pcs. | 15-18 | 111-01504 |
| MBT14UHFC | 16.0 | 362.0 | 25.0 | 102.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01512 |
| MBT17UHFC | 16.0 | 434.0 | 25.0 | 125.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01513 |
| MBT20UHFC | 16.0 | 521.0 | 25.0 | 152.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01514 |
| MBT23UHFC | 16.0 | 575.0 | 25.0 | 168.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01515 |
| MBT27UHFC | 16.0 | 681.0 | 25.0 | 203.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01516 |
| MBT30UHFC | 16.0 | 754.0 | 25.0 | 225.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01517 |
| MBT33UHFC | 16.0 | 838.0 | 25.0 | 254.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01518 |
| MBT43UHFC | 16.0 | 1,092.0 | 25.0 | 330.0 | 2,500 | SS316, SP | 25 pcs. | 15;17 | 111-01519 |
| MBT49UHFC | 16.0 | 1,245.0 | 25.0 | 380.0 | 2,500 | SS316, SP | 25 pcs. | 15;17 | 111-01520 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Recommended Tools | | | | |
|-------------------|--------|---------|-------|------------|
| | 15 | 16 | 17 | 18 |
| | MK9SST | MK9PSST | HDT16 | KST-STG200 |
| | 560 | 560 | 561 | 561 |

For more information on toolings please refer to the Application Tooling chapter.

91
Double wrap cable ties with ball-lock and coating MBTXHDFC- / MBTUHDFC-Series, stainless steel 316

The MBT range of stainless steel cable ties can be used in the most arduous of conditions or where the additional security, strength and fire resistance of a metal fixing is required. Used in all industries from mass transit, ship building, oil rigs, mining and chemical industry, theatres and exhibition halls. In the event of a fire, cables will remain securely held in place and will not fall to block emergency exits. Fully coated ties can also be used to avoid any reflection. An important consideration for instance in the defence industry.

Features and benefits

- MBT cable ties, made from stainless steel SS316 with a polyester coating
- Non-releasable locking feature
- Double wrap operation
- Corrosion resistant
- · Weather resistant
- Outstanding chemical resistance
- Antimagnetic
- High temperature resistant
- Non-burning



Stainless Steel Cable Ties, coated, MBT_UHDFC.





MBT-Series 12.3 mm width

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ر ع | Material | Pack Cont. | Tools | Article-No. |
|------------|--------------|---------------|------------------|------------------|--------|-----------|---------------|-------|-------------|
| MBT27XHDFC | 12.3 | 681.0 | 17.0 | 100.0 | 2,500 | SS316, SP | 50 pcs. | 15-18 | 111-01505 |
| MBT33XHDFC | 12.3 | 838.0 | 17.0 | 120.0 | 2,500 | SS316, SP | 50 pcs. | 15-18 | 111-01506 |
| MBT43XHDFC | 12.3 | 1,092.0 | 17.0 | 160.0 | 2,500 | SS316, SP | 25 pcs. | 15-18 | 111-01507 |
| MBT49XHDFC | 12.3 | 1,245.0 | 17.0 | 180.0 | 2,500 | SS316, SP | 25 pcs. | 15-18 | 111-01508 |
| MBT60XHDFC | 12.3 | 1,524.0 | 17.0 | 230.0 | 2,500 | SS316, SP | 25 pcs. | 15-18 | 111-01509 |
| MBT27UHDFC | 16.0 | 681.0 | 25.0 | 100.0 | 5,000 | SS316, SP | 50 pcs. | 15;17 | 111-01521 |
| MBT33UHDFC | 16.0 | 838.0 | 25.0 | 120.0 | 5,000 | SS316, SP | 50 pcs. | 15;17 | 111-01522 |
| MBT43UHDFC | 16.0 | 1,092.0 | 25.0 | 160.0 | 5,000 | SS316, SP | 25 pcs. | 15;17 | 111-01523 |
| MBT49UHDFC | 16.0 | 1,245.0 | 25.0 | 180.0 | 5,000 | SS316, SP | 25 pcs. | 15;17 | 111-01524 |
| MBT60UHDFC | 16.0 | 1,524.0 | 25.0 | 230.0 | 5,000 | SS316, SP | 25 pcs. | 15;17 | 111-01525 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | ommended T | ools | | |
|-----|------------|---------|-------|------------|
| | 15 | 16 | 17 | 18 |
| | MK9SST | MK9PSST | HDT16 | KST-STG200 |
| £ | 560 | 560 | 561 | 561 |

Cable Ties and Fixings Cable Ties, Stainless Steel

Cable Ties with punch-locking mechanism MST-Series, stainless steel 304

Stainless steel cable ties are designed for fixing loads and cables securely in hazardous industrial environments such as railway carriages, jet engines, inside power plants or on offshore drilling platforms, where exposure to extremes of weather, saltwater and temperature are common. The MST-Series tie with its new punch-locking mechanism is an excellent choice especially for environments which require high resistance to vibrations.

Features and benefits

- MST-Series cable ties are made from stainless steel 304
- No loosening after bundling
- · Corrosion and weather resistant
- · Significantly improved vibration resistance
- Outstanding chemical resistance
- Space saving solution
- Safe cut-off (no sharp edges)
- High temperature resistant
- Non-burning



Application video MST-Series

| L | L | |
|-------|---|------|
| | | ///w |
| 1.10T | | |

MST tie

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ر ا | Material | Pack Cont. | Tools | Article-No. |
|---------|--------------|---------------|------------------|------------------|--------|----------|---------------|-------|-------------|
| MST200S | 5.9 | 207.0 | 5.0 | 50.0 | 900 | SS304 | 100 pcs. | 19 | 111-01549 |
| MST360S | 5.9 | 360.0 | 5.0 | 100.0 | 900 | SS304 | 100 pcs. | 19 | 111-01550 |
| MST500S | 5.9 | 500.0 | 5.0 | 145.0 | 900 | SS304 | 100 pcs. | 19 | 111-01551 |
| MST700S | 5.9 | 700.0 | 5.0 | 205.0 | 900 | SS304 | 100 pcs. | 19 | 111-01552 |
| MST360M | 8.9 | 369.0 | 8.0 | 100.0 | 1,500 | SS304 | 50 pcs. | 20 | 111-01631 |
| MST500M | 8.9 | 509.0 | 8.0 | 145.0 | 1,500 | SS304 | 50 pcs. | 20 | 111-01632 |
| MST700M | 8.9 | 700.0 | 8.0 | 205.0 | 1,500 | SS304 | 50 pcs. | 20 | 111-01633 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | Recommended Tools | | | | | | | | |
|-----|-------------------|------|--|--|--|--|--|--|--|
| | 19 | 20 | | | | | | | |
| | MST6 | MST9 | | | | | | | |
| | 562 | 562 | | | | | | | |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Stainless Steel Cable Ties MST-Series.

The MST-Series (up to 8.9 mm) can be i used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution. Please see page 160.

Can support quality assurance in the production of food stuffs, for example HACCP.

Cable Ties with fold locking

The MLT range of stainless steel cable ties can be used in the most arduous of conditions or where the additional security, strength and fire resistance of a metal fixing is required. Used in all industries from mass transit, ship building, oil rigs, mining and chemical industry, theatres and exhibition halls. In the event of a fire, cables will remain securely held in place and will not fall to block emergency exits.

Features and benefits

- Releasable stainless steel buckle tie
- Heavy duty type in stainless steel 316
- · Can be re-opened and re-used
- · Available also with polyester coating which prevents corrosion between dissimilar materials



MLT tie

MLT-Series, stainless steel 316

The MLT-Series (up to 10 mm) can be Ī used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution.Please see page 160.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | ر ک | Material | Pack Cont. | Tools | Article-No. |
|-----------|--------------|---------------|------------------|------------------|--------|----------|---------------|-------|-------------|
| MLT8SS5 | 5.0 | 230.0 | 20.0 | 60.0 | 420 | SS316 | 100 pcs. | 17;21 | 111-94080 |
| MLT12555 | 5.0 | 330.0 | 20.0 | 90.0 | 420 | SS316 | 100 pcs. | 17;21 | 111-94120 |
| MLT16SS5 | 5.0 | 430.0 | 20.0 | 120.0 | 420 | SS316 | 100 pcs. | 17;21 | 111-94161 |
| MLT24SS5 | 5.0 | 630.0 | 20.0 | 180.0 | 420 | SS316 | 100 pcs. | 17;21 | 111-91400 |
| MLT8SS10 | 10.0 | 230.0 | 25.0 | 60.0 | 850 | SS316 | 100 pcs. | 17;21 | 111-95080 |
| MLT125510 | 10.0 | 330.0 | 25.0 | 90.0 | 850 | SS316 | 100 pcs. | 17;21 | 111-95120 |
| MLT165510 | 10.0 | 430.0 | 25.0 | 120.0 | 850 | SS316 | 100 pcs. | 17;21 | 111-91300 |
| MLT245510 | 10.0 | 630.0 | 25.0 | 180.0 | 850 | SS316 | 100 pcs. | 17;21 | 111-95241 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

MLT-C-Series coated, stainless steel 316

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | S S S | Material | Pack Cont. | Tools | Article-No. |
|------------|--------------|---------------|------------------|------------------|-------------|-----------|---------------|-------|-------------|
| MLT8SSC5 | 5.3 | 230.0 | 20.0 | 60.0 | 420 | SS316, SP | 100 pcs. | 17;21 | 111-91000 |
| MLT12SSC5 | 5.3 | 330.0 | 20.0 | 90.0 | 420 | SS316, SP | 100 pcs. | 17;21 | 111-91121 |
| MLT16SSC5 | 5.3 | 430.0 | 20.0 | 120.0 | 420 | SS316, SP | 100 pcs. | 17;21 | 111-91161 |
| MLT24SSC5 | 5.3 | 630.0 | 20.0 | 180.0 | 420 | SS316, SP | 100 pcs. | 17;21 | 111-91180 |
| MLT8SSC10 | 10.3 | 230.0 | 25.0 | 60.0 | 850 | SS316, SP | 100 pcs. | 17;21 | 111-91001 |
| MLT12SSC10 | 10.3 | 330.0 | 25.0 | 90.0 | 850 | SS316, SP | 100 pcs. | 17;21 | 111-91123 |
| MLT16SSC10 | 10.3 | 430.0 | 25.0 | 120.0 | 850 | SS316, SP | 100 pcs. | 17;21 | 111-91163 |
| MLT24SSC10 | 10.3 | 630.0 | 25.0 | 180.0 | 850 | SS316, SP | 100 pcs. | 17;21 | 111-91181 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Rec | ommended T | ools |
|-----|------------|------|
| | 17 | 21 |
| | HDT16 | MTT4 |
| | 561 | 563 |

For product specific approvals and specifications please refer to the Appendix.



Protective channel for stainless steel ties

LFPC-Series

When used in conjunction with the MBT, MST, MLT and AMT range of stainless steel cable ties this channel gives the cable protection against chafing, vibration and shock. Ideal for use in arduous conditions such as those found on board ships, oil rigs or in nuclear power stations.

Features and benefits

- LFPC channel, manufactured from Polyolefin
- Works with MBT-, MST-, MLT- and AMT-Series
- Smooth surface protects bundle against chafing caused by vibrations and shocks
- Can be cut from roll to any length
- Halogenfree
- Flame retardant

Protective channel LFPC, polyolefin, black.



Material specification please see page 26.

The fire protection properties of the material relate to the test performed on defined test samples. This is a test under laboratory conditions and not directly transferable to the product made from this material.

| I FPC | <u>_</u> |
|-------|----------|

| ТҮРЕ | Width (W) | For Ties | Material | Pack Cont. | Article-No. | |
|---------|--------------|------------|----------|---------------|-------------|--|
| LFPC70 | 7.0 | MBTS | PO | 25 m | 111-93000 | |
| LFPC83 | 8.3 | MBTH | PO | 25 m | 111-00257 | |
| LFPC103 | 10.3 | MBTH | PO | 25 m | 111-94000 | |
| LFPC129 | 12.9 | MBTXH | PO | 50 m | 111-00253 | |
| LFPC132 | 13.2 | MBTXH | PO | 25 m | 111-00254 | |
| LFPC150 | 15.0 | MBTXH | PO | 25 m | 111-95000 | |
| LFPC163 | 16.3 | AMT, MBTUH | PO | 50 m | 111-00255 | |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Selection guide for fixing ties

| Application | Arrowhead | Fir Tree Mount | Rivet Wall Plug | Screw Mount | EdgeClip | Weld Stud Mount |
|---------------|-----------|-------------------|--------------------|----------------|----------|--------------------|
| H max. | • | ٠ | | • | | |
| +W max.+ | | ٠ | • | • | | |
| <u>H</u> max. | | | | | • | |
| H max. | | | | | | • |



Arrowhead

This fixing tie is based on an arrowhead offering high extraction forces. The arrowhead is securely in place when a click can be heard and felt by the user.



Arrowhead with disc

The disc minimises the ingress of dust, dirt and water. Furthermore a safe fixation inside the drill hole is assured that withstands pressure from various directions.





Arrowhead with supporting legs

Arrowhead fixings with supporting legs offer good and stable fixation in drilled holes. The supporting legs generate additional pressure to assure a firm and secure fixing while taking up any variation in panel thickness. These ties are also suitable in high vibration applications.

Arrowhead without supporting legs

The arrowhead design assures good fixation while utilising lowest possible space.



Fir Tree Mount

Fir Tree Mounts can be pushed into pre-punched holes easily in panels or threaded, blind holes based on the low insertion forces. The design is ideally suited for a wide range of sheet thicknesses. The disc on top of the fir tree covers the hole and minimises the ingress of dust, dirt and water.

Cable Ties and Fixings

Product Selection



Weld Stud Mount

Many of the HellermannTyton weld stud mounts can easily be attached by hand ("soft push"). The design offers very low insertion forces that require no tools. The mounts can be removed by twisting to the left.

Weld Stud Fixings with Lateral Adjustment

The special oval shape of these mounts provides a 5 - 6 mm lateral adjustment to cater for any misalignment of the stud or incorrect positioning of ties on the cables. The bundle can therefore be moved when mounted.



The EdgeClips are specifically designed to bundle and guide cable and wires on edges. Cost intensive drill holes for fixing are no longer required. EdgeClips are easily mounted by hand, the integrated metal clamp, securely keeping the clips on the edge.

EdgeClip Twistable

Ideally suited for fixations where bundles need to be flexibly guided. Theses EdgeClips are available with facilities for 90° or 360° rotation.







de la



Cable and Hose Attachment

Excellent solution for subsequent attachment of pipes and wires to installed tubes.

Heavy Duty Application

These sturdy fixing ties can withstand vibrations. They are easy to apply and give a secure alignment to the bundle. There will be high tightening torque through metal bushing.

Two Piece Fixing Ties with Clip Coupler

The Coupler is an article to connect two cable ties for parallel bundling of tubes, harnesses or cables. Its design enables the cable ties to rotate up to 90° and allows flexible installations.

With a diverse range of fixing possibilities these ties are ideal for use in many different industries, including automotive, aerospace, white goods manufacture and panel building.

Features and benefits

- Easy to install without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises access of dust, dirt and water
- · Cable tie head always situated in a defined position
- KSFT-types with specially rounded arrowhead minimise the assembly height



The Disc at the head of the T50SOSSFT6.5E protects the bore against dirt and splashes.



Material specification please see page 26.

1-Piece Fixing Ties with Arrowhead, with Disc, for round holes





T50SOSKSFT5.4E

| Width (W) | Length (L) | Bundle Ø max. | S ∠ | Disc Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|--------------|---|---|---|---|---|---|--|--|--|--|
| 3.4 | 112.7 | 20.0 | 230 | 16.0 | 6.3 - 6.7 | 0.7 - 1.5 | PEEK | Beige (BGE) | 2;4-6 | 126-00183 |
| 3.5 | 126.4 | 25.0 | 200 | 16 | 6.5 - 7.0 | 0.8 - 1.5 | PA66HS | Black (BK) | 2;4-6 | 126-00255 |
| 4.6 | 156.0 | 35.0 | 180 | 16.0 | 4.8 - 5.2 | 0.7 - 1.3 | PA66HS | Natural (NA) | 2-10 | 126-00111 |
| 4.6 | 156.0 | 35.0 | 180 | 16.0 | 4.8 - 5.2 | 0.7 - 1.3 | PA66HS | Black (BK) | 2-10 | 126-00099 |
| 4.6 | 156.0 | 35.0 | 180 | 16.0 | 5.2 - 5.6 | 0.7 - 1.3 | PA66HS | Black (BK) | 2-10 | 126-00075 |
| 4.6 | 156.0 | 35.0 | 180 | 16.0 | 6.3 - 6.7 | 0.7 - 1.3 | PA66HS | Black (BK) | 2-10 | 126-00081 |
| 4.6 | 157.5 | 35.0 | 225 | 16.0 | 6.3 - 6.7 | 1.7 - 2.3 | PA66HS | Black (BK) | 2-10 | 126-00086 |
| 4.6 | 158.8 | 30.0 | 225 | 16.0 | 6.3 - 6.7 | 1.9 - 2.5 | PA66HS | Black (BK) | 2-10 | 126-03102 |
| 4.6 | 165.0 | 35.0 | 225 | 20.0 | 8.0 | 0.8 - 1.5 | PA66 | Black (BK) | 2;4-6;8 | 126-01900 |
| 4.6 | 170.0 | 31.0 | 225 | 16.2 | 6.1 - 6.5 | 0.7 - 1.5 | PA66 | Natural (NA) | 2-10 | 126-02300 |
| 4.6 | 170.0 | 31.0 | 225 | 16.2 | 6.1 - 6.5 | 0.7 - 1.5 | PA66HS | Black (BK) | 2-10 | 126-00017 |
| 5.0 | 160.0 | 31.0 | 200 | 18.0 | 6.3 - 7.5 | 0.6 - 1.8 | PA66HS | Black (BK) | 2-10 | 111-85350 |
| 5.0 | 225.0 | 59.0 | 225 | 16.0 | 6.8 - 7.2 | 0.8 - 2.0 | PA66HS | Black (BK) | 2-10 | 111-85850 |
| | (W) 3.4 3.5 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 5.0 | (W) (L) 3.4 112.7 3.5 126.4 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 156.0 4.6 158.8 4.6 165.0 4.6 170.0 4.6 170.0 5.0 160.0 5.0 225.0 | (W) (L) max. 3.4 112.7 20.0 3.5 126.4 25.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 156.0 35.0 4.6 157.5 35.0 4.6 165.0 35.0 4.6 170.0 31.0 4.6 170.0 31.0 5.0 160.0 31.0 5.0 225.0 59.0 | (W) (L) max. N 3.4 112.7 20.0 230 3.5 126.4 25.0 200 4.6 156.0 35.0 180 4.6 156.0 35.0 180 4.6 156.0 35.0 180 4.6 156.0 35.0 180 4.6 156.0 35.0 180 4.6 156.0 35.0 180 4.6 156.0 35.0 225 4.6 156.0 35.0 225 4.6 156.0 35.0 225 4.6 158.8 30.0 225 4.6 165.0 35.0 225 4.6 170.0 31.0 225 4.6 170.0 31.0 225 5.0 160.0 31.0 200 5.0 225.0 59.0 225 | (W) (L) max. 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Ø (FH) Thickness 3.4 112.7 20.0 230 16.0 6.3 - 6.7 0.7 - 1.5 3.5 126.4 25.0 200 16 6.5 - 7.0 0.8 - 1.5 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 4.6 156.0 35.0 180 16.0 5.2 - 5.6 0.7 - 1.3 4.6 156.0 35.0 180 16.0 6.3 - 6.7 0.7 - 1.3 4.6 156.0 35.0 225 16.0 6.3 - 6.7 1.7 - 2.3 4.6 157.5 35.0 225 16.0 6.3 - 6.7 1.9 - 2.5 4.6 165.0 35.0 225 16.0 6.3 - 6.7 1.9 - 2.5 4.6 165.0 35.0</td><td>(W) (L) max. N Ø (FH) Thickness Material 3.4 112.7 20.0 230 16.0 6.3 - 6.7 0.7 - 1.5 PEEK 3.5 126.4 25.0 200 16 6.5 - 7.0 0.8 - 1.5 PA66HS 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS 4.6 156.0 35.0 180 16.0 5.2 - 5.6 0.7 - 1.3 PA66HS 4.6 156.0 35.0 180 16.0 6.3 - 6.7 1.7 - 2.3 PA66HS 4.6 157.5 35.0 225 16.0 6.3 - 6.7 1.9 - 2.5 PA66HS 4.6 158.8 30.0 225 16.0 6.3 - 6.7 1.9 - 2.5 PA66HS <td>(W) (L) max. 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Ø (FH) Thickness 3.4 112.7 20.0 230 16.0 6.3 - 6.7 0.7 - 1.5 3.5 126.4 25.0 200 16 6.5 - 7.0 0.8 - 1.5 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 4.6 156.0 35.0 180 16.0 5.2 - 5.6 0.7 - 1.3 4.6 156.0 35.0 180 16.0 6.3 - 6.7 0.7 - 1.3 4.6 156.0 35.0 225 16.0 6.3 - 6.7 1.7 - 2.3 4.6 157.5 35.0 225 16.0 6.3 - 6.7 1.9 - 2.5 4.6 165.0 35.0 225 16.0 6.3 - 6.7 1.9 - 2.5 4.6 165.0 35.0 | (W) (L) max. N Ø (FH) Thickness Material 3.4 112.7 20.0 230 16.0 6.3 - 6.7 0.7 - 1.5 PEEK 3.5 126.4 25.0 200 16 6.5 - 7.0 0.8 - 1.5 PA66HS 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS 4.6 156.0 35.0 180 16.0 5.2 - 5.6 0.7 - 1.3 PA66HS 4.6 156.0 35.0 180 16.0 6.3 - 6.7 1.7 - 2.3 PA66HS 4.6 157.5 35.0 225 16.0 6.3 - 6.7 1.9 - 2.5 PA66HS 4.6 158.8 30.0 225 16.0 6.3 - 6.7 1.9 - 2.5 PA66HS <td>(W) (L) max. Ø (FH) Thickness Material Colour 3.4 112.7 20.0 230 16.0 6.3 - 6.7 0.7 - 1.5 PEEK Beige (BGE) 3.5 126.4 25.0 200 16 6.5 - 7.0 0.8 - 1.5 PA66HS Black (BK) 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS Black (BK) 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS Black (BK) 4.6 156.0 35.0 180 16.0 5.2 - 5.6 0.7 - 1.3 PA66HS Black (BK) 4.6 156.0 35.0 180 16.0 5.2 - 5.6 0.7 - 1.3 PA66HS Black (BK) 4.6 156.0 35.0 225 16.0 6.3 - 6.7 1.7 - 2.3 PA6HS Black (BK) 4.6 157.5 35.0 225 16.0 6.3 - 6.7 1.9 - 2.5 PA6HS Bl</td> <td>(W)(L)max.NØ(FH)ThicknessMaterialColourTools3.4112.720.023016.06.3 - 6.70.7 - 1.5PEEKBeige (BGE)2;4-63.5126.425.0200166.5 - 7.00.8 - 1.5PA66HSBlack (BK)2;4-64.6156.035.018016.04.8 - 5.20.7 - 1.3PA66HSBlack (BK)2-104.6156.035.018016.04.8 - 5.20.7 - 1.3PA66HSBlack (BK)2-104.6156.035.018016.05.2 - 5.60.7 - 1.3PA66HSBlack (BK)2-104.6156.035.018016.05.2 - 5.60.7 - 1.3PA66HSBlack (BK)2-104.6156.035.018016.06.3 - 6.71.7 - 2.3PA66HSBlack (BK)2-104.6156.035.022516.06.3 - 6.71.7 - 2.3PA66HSBlack (BK)2-104.6157.535.022516.06.3 - 6.71.9 - 2.5PA66HSBlack (BK)2-104.6157.535.022516.06.3 - 6.71.9 - 2.5PA66HSBlack (BK)2-104.6156.035.022516.06.3 - 6.71.9 - 2.5PA66HSBlack (BK)2-104.6157.535.022516.26.1 - 6.50.7 - 1.5PA66Black (BK)2-104.6170.0<</td> | (W) (L) max. Ø (FH) Thickness Material Colour 3.4 112.7 20.0 230 16.0 6.3 - 6.7 0.7 - 1.5 PEEK Beige (BGE) 3.5 126.4 25.0 200 16 6.5 - 7.0 0.8 - 1.5 PA66HS Black (BK) 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS Black (BK) 4.6 156.0 35.0 180 16.0 4.8 - 5.2 0.7 - 1.3 PA66HS Black (BK) 4.6 156.0 35.0 180 16.0 5.2 - 5.6 0.7 - 1.3 PA66HS Black (BK) 4.6 156.0 35.0 180 16.0 5.2 - 5.6 0.7 - 1.3 PA66HS Black (BK) 4.6 156.0 35.0 225 16.0 6.3 - 6.7 1.7 - 2.3 PA6HS Black (BK) 4.6 157.5 35.0 225 16.0 6.3 - 6.7 1.9 - 2.5 PA6HS Bl | (W)(L)max.NØ(FH)ThicknessMaterialColourTools3.4112.720.023016.06.3 - 6.70.7 - 1.5PEEKBeige (BGE)2;4-63.5126.425.0200166.5 - 7.00.8 - 1.5PA66HSBlack (BK)2;4-64.6156.035.018016.04.8 - 5.20.7 - 1.3PA66HSBlack (BK)2-104.6156.035.018016.04.8 - 5.20.7 - 1.3PA66HSBlack (BK)2-104.6156.035.018016.05.2 - 5.60.7 - 1.3PA66HSBlack (BK)2-104.6156.035.018016.05.2 - 5.60.7 - 1.3PA66HSBlack (BK)2-104.6156.035.018016.06.3 - 6.71.7 - 2.3PA66HSBlack (BK)2-104.6156.035.022516.06.3 - 6.71.7 - 2.3PA66HSBlack (BK)2-104.6157.535.022516.06.3 - 6.71.9 - 2.5PA66HSBlack (BK)2-104.6157.535.022516.06.3 - 6.71.9 - 2.5PA66HSBlack (BK)2-104.6156.035.022516.06.3 - 6.71.9 - 2.5PA66HSBlack (BK)2-104.6157.535.022516.26.1 - 6.50.7 - 1.5PA66Black (BK)2-104.6170.0< |

All dimensions in mm. Subject to technical changes.

| Rec | ommended To | ols | | | | | | | |
|-----|-------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

1-Piece Fixing Tie with Arrowhead, with Disc, releasable



| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ך ₪ | Disc Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|---------|--------------|---------------|------------------|--------|-----------|----------------|--------------------|----------|------------|-------|-------------|
| RT50SD6 | 5.0 | 160.0 | 31.0 | 225 | 18.0 | 6.3 - 7.5 | 0.6 - 1.8 | PA66HS | Black (BK) | 2-10 | 111-85480 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended To | ools | | | | | | | |
|-----|-------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| Ê | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

For more information on toolings please refer to the Application Tooling chapter.

HellermannTyton Further information at www.HellermannTyton.com/fixings 99

6

1-Piece Fixing Ties with Arrowhead, with disc, sealed

The parts are mainly used in the automotive industry, e.g. for door harnesses.

Features and benefits

- One-piece fixing ties with cellular rubber disc
- Especially suitable for door and tailgate harnesses used for car body applications
- Made from PA66 heat-stabilised material
- · Cellular rubber disc minimises access of dust, dirt and water



The additional seal protects against the ingress of moisture.

Fixing Ties, sealed, for Round Holes



One piece fixing tie with arrowhead and disc, standard design



T50SOSSFT6.5E-MDL

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | K Z | Disc Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|---------------------|--------------|---------------|------------------|--------|-----------|--|--------------------|----------|--------------|-------|-------------|
| | 4.6 | 158.8 | 30.0 | 225 | 16.0 | 6.3 - 6.7 | 0.6 - 1.8 | PA66HS | Green (GN) | 2-10 | 126-03100 |
| T50SOSSFT6.5E-MDL | 4.6 | 158.8 | 30.0 | 225 | 16.0 | 6.3 - 6.7 | 0.6 - 1.8 | PA66HS | Black (BK) | 2-10 | 156-00264 |
| | 4.6 | 158.8 | 30.0 | 225 | 16.0 | 6.3 - 6.7 | 0.6 - 1.8 | PA66HS | Natural (NA) | 2-10 | 156-00271 |
| T50SOSSFT6.5E-MS-MD | 4.6 | 163.0 | 35.0 | 180 | 16.0 | 6.25 - 6.75. 6.1 - 6.6 (hexagonal) | 0.7 - 1.6 | PA66HS | Natural (NA) | 2-10 | 126-00065 |
| T50XROSSFT6.5-E-MDL | 4.6 | 200.0 | 45.0 | 200 | 16.0 | 6.25 - 6.75 | 1.2 - 2.1 | PA66HS | Black (BK) | 2-10 | 156-00379 |

All dimensions in mm. Subject to technical changes.

Fixing Ties, sealed, oval holes



T60SOSSFT6.5x130E-MD

| - | Material specification |
|----------|--|
| | Material specification please see page 26. |

| | Width | Length | Bundle Ø | Disc | Hole Ø | Panel | | | | |
|--|-------------|--------|----------|-------------|------------|-----------|----------|--------------|-------|-------------|
| ТҮРЕ | (W) | (L) | max. | Ø | (FH) | Thickness | Material | Colour | Tools | Article-No. |
| T60XSOSSFT62X122EMD | 5.5 | 133.6 | 25.0 | 16.0 x 22.0 | 6.2 x 12.2 | 0.7 - 2.0 | PA66HS | Black (BK) | 2-12 | 126-00256 |
| T60SOSSFT62x122-E-MD | 5.5 | 157.5 | 30.0 | 16.0 x 22.0 | 6.2 x 12.2 | 0.6 - 2.0 | PA66HS | Black (BK) | 2-12 | 126-00080 |
| T60SOSSFT70x120-E-MD | 5.5 | 157.5 | 30.0 | 16.0 x 22.0 | 7.0 x 12.0 | 0.7 - 2.0 | PA66HS | Black (BK) | 2-12 | 126-00079 |
| T60SOSSFT65x130-E-MD | 5.5 | 157.6 | 30.0 | 16.0 x 22.0 | 6.5 x 13.0 | 0.6 - 2.0 | PA66HS | Natural (NA) | 2-12 | 126-00076 |
| All dimensions in mm. Subject to technic | -al changes | | | | | | | | | |

All dimensions in mm. Subject to technical changes.

| Rec | ommended | l Tools | | | | | | | | | |
|-----|----------|---------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For bundling and fixing of cable harnesses, pipes and hoses in many different industries, including automotive, aerospace, white goods manufacturing and panel building.

Features and benefits

- Easy to assemble without the need for a tool
- · Cable tie head always situated in defined position
- · Arrowhead simply locks into place
- Supporting legs provide a secure and firm fixing in areas where space is limited



A wide range of arrowhead fixing ties which are suitable for different panel thicknesses and hole diameters.



L



T50SSL5

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Я N | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|------------|---------|--------------|---------------|------------------|--------|----------------|--------------------|-----------|--------------|-------|-------------|
| | S | 2.5 | 100.0 | 16.0 | 80 | 4.6 - 4.8 | 0.8 - 3.0 | PA66HS | Natural (NA) | 2;4-6 | 111-85519 |
| T18RSF | | 2.5 | 100.0 | 16.0 | 80 | 4.6 - 4.8 | 0.8 - 3.0 | PA66W | Black (BK) | 2;4-6 | 111-85560 |
| | J | 2.5 | 100.0 | 16.0 | 80 | 4.6 - 4.8 | 1.0 - 3.0 | PA46 | Grey (GY) | 2;4-6 | 126-00275 |
| | | 4.6 | 135.0 | 27.0 | 200 | 6.1 - 6.5 | 0.5 - 2.7 | PA66HS | Black (BK) | 2-10 | 126-02204 |
| T50SSL5 | 0 | 4.6 | 135.0 | 27.0 | 225 | 6.1 - 6.5 | 0.5 - 2.7 | PA46 | Grey (GY) | 2-10 | 111-85395 |
| | ED | 4.6 | 135.0 | 27.0 | 225 | 6.1 - 6.5 | 0.5 - 2.7 | PA66 | Natural (NA) | 2-10 | 111-85339 |
| T50SL5-MOD | SPI | 4.6 | 165.0 | 34.0 | 225 | 6.1 | 0.5 - 2.7 | PA66HIRHS | Black (BK) | 2-10 | 126-00293 |
| T50SL6 | ø | 4.6 | 165.0 | 34.0 | 225 | 6.3 - 7.5 | 0.5 - 2.5 | PA66HS | Black (BK) | 2-10 | 111-85360 |
| T50SL7 | | 4.6 | 165.0 | 34.0 | 225 | 6.9 - 7.1 | 0.8 - 2.5 | PA66 | Natural (NA) | 2-10 | 111-85479 |
| | | 4.6 | 160.0 | 35.0 | 222 | 6.0 - 6.6 | 0.7 - 3.0 | PA66 | Natural (NA) | 2-10 | 111-85739 |
| T50SSFM | | 4.6 | 160.0 | 35.0 | 222 | 6.0 - 6.6 | 0.7 - 3.0 | PA66HS | Black (BK) | 2-10 | 126-00032 |
| | | 4.6 | 160.0 | 35.0 | 222 | 6.0 - 6.6 | 0.7 - 3.0 | PA66HS | Natural (NA) | 2-10 | 126-01104 |
| T50RSFM | | 4.6 | 205.0 | 45.0 | 225 | 6.0 - 6.6 | 0.7 - 3.0 | PA66 | Natural (NA) | 2-10 | 111-85729 |
| OS130 | | 5.0 | 130.0 | 20.0 | 147 | 6.8 - 7.2 | 0.6 - 2.6 | PA66W | Black (BK) | 2-10 | 126-00060 |
| T50SAH | | 4.6 | 160.0 | 25.0 | 225 | 6.0 - 6.6 | 0.7 - 3.0 | PA66HS | Natural (NA) | 2-10 | 155-41102 |
| ISUSAN | - | 4.6 | 160.0 | 25.0 | 225 | 6.0 - 6.6 | 0.7 - 3.0 | PA66HS | Black (BK) | 2-10 | 126-00163 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended To | ols | | | | Recommended Tools | | | | | | | | | | | | | |
|-----|-------------|------|-------|----------|------|-------------------|------|-----|------|--|--|--|--|--|--|--|--|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | | | | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | | | | | | | | | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | | | | | | | | | | |

1-Piece Fixing Ties with Arrowhead, with wings, releasable

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | ך ₪ | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|----------|---------|--------------|---------------|------------------|--------|----------------|--------------------|----------|------------|-------|-------------|
| YQR10016 | | 4.6 | 165.0 | 34.0 | 225 | 6.9 - 7.1 | 1.6 - 4.0 | PA66 | Grey (GY) | 2-10 | 126-03000 |
| RT50RSF | | 4.6 | 215.0 | 50.0 | 225 | 7.8 - 8.2 | 0.8 - 2.5 | PA66 | Black (BK) | 2-10 | 115-07010 |
| RT50SFK | | 5.0 | 225.0 | 50.0 | 225 | 6.4 - 7.0 | 0.8 - 3.0 | PA66 | Black (BK) | 2-10 | 115-06960 |

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Arrowhead, with wings, for oval holes

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | ر ا | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|------------|---------|--------------|---------------|------------------|--------|----------------|--------------------|----------|------------|-------|-------------|
| | | 4.6 | 228.0 | 45.0 | 222 | 6.3 x 12.3 | 0.6 - 3.0 | PA46 | Grey (GY) | 2-12 | 150-48397 |
| T80RFT6X12 | | 4.6 | 228.0 | 45.0 | 222 | 6.3 x 12.3 | 0.6 - 3.0 | PA66 | Black (BK) | 2-12 | 150-48396 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended | l Tools | | | | | | | | | |
|-----|----------|---------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

1-Piece Fixing Ties with Arrowhead

1-Piece Fixing Ties with Arrowhead, without Wings and Disc

The arrowhead design allows these ties to be used in areas with limited space.

Features and benefits

- Easy to assemble without the need for a tool
- Fixing tie with arrowhead without legs
- Arrowhead simply locks into place
- Cable tie head always situated in defined position

Material specification please see page 26.



The arrowhead design allows these fixing ties to be used in areas with limited space.

| L | |
|---|---|
| | w |

T30RSF(U)



| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | کر ≥ | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|-----------|--------------|---------------|------------------|------|----------------|--------------------|----------|--------------|-------|-------------|
| T30RSF | 3.6 | 158.0 | 31.0 | 135 | 4.8 - 5.6 | 0.9 - 2.4 | PA66 | Natural (NA) | 2;4-6 | 126-00213 |
| TSUKSF | 3.6 | 158.0 | 32.0 | 135 | 4.7 - 5.5 | 0.9 - 2.4 | PA66HS | Black (BK) | 2;4-6 | 126-00211 |
| | 4.6 | 210.0 | 44.0 | 225 | 6.2 - 6.4 | 2.9 - 3.0 | PA66 | Natural (NA) | 2-10 | 111-85799 |
| T50RSF(E) | 4.6 | 210.0 | 44.0 | 225 | 6.2 - 6.4 | 2.9 - 3.0 | PA66 | Black (BK) | 2-10 | 126-01001 |

All dimensions in mm. Subject to technical changes.

| Rec | Recommended Tools | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--|--|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | | | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | | | | |



For temperatures up to +240 °C

With a diverse range of fixing possibilities these ties are ideal for use in many different industries, including automotive, aerospace, white goods manufacture and panel building.

Features and benefits

- Easy to install without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressures from various directions and minimises access of dust, dirt and water
- · Cable tie head always situated in a defined position
- Features Material PEEK
- -55 °C to +240 °C operating temperature
- Excellent resistance against chemicals and gamma radiation



One piece fixing tie with arrowhead, outside serrated.









| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | K ≥ | Disc Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|-----------------------|--------------|---------------|------------------|--------|-----------|----------------|--------------------|----------|-------------|-------|-------------|
| PT2ASFT6.5PT0.7-1.5-E | 3.4 | 112.7 | 20.0 | 230 | 16.0 | 6.3 - 6.7 | 0.7 - 1.5 | PEEK | Beige (BGE) | 2;4-6 | 126-00183 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended T | ools | | |
|-----|------------|-------|----------|------|
| | 2 | 4 | 5 | 6 |
| | MK20 | MK3SP | MK3PNSP2 | EVO7 |
| | 551 | 552 | 552 | 554 |

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear manufacturer, white goods manufacturer.

Features and benefits

- Pre-assembled 2-piece fixing tie with arrowhead foot part
- · Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- · Arrowhead simply locks into place
- · Disc adjusts tie for pressure from various directions

2-Piece Fixing Ties with Arrowhead, with Disc, for round holes

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T50SSFT6.5



T50ROSSFT6.5 16-3





Material specification

please see page 26.



T50ROSSFT6.5-16-3

| | Width | Length | Bundle Ø | | Disc | Hole Ø | Panel | Material | Material | | | |
|-------------------|-------|--------|-------------|--------|------|-----------|-----------|----------|-----------|-------------------------------|---------|-------------|
| ТҮРЕ | (W) | (L) | max. | ر ا | Ø | (FH) | Thickness | | | Colour | Tools | Article-No. |
| T50SOSSFT65162OD | 4.6 | 150.0 | 35.0 | 225 | 16.0 | 6.3 - 6.7 | 1.5 - 2.2 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-93130 |
| T50RSFT6.5D18 | 4.6 | 200.0 | 45.0 | 200 | 18.0 | 6.5 - 6.8 | 0.4 - 1.6 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-37691 |
| T50ROSSFT6.5 16-3 | 4.6 | 200.0 | 45.0 | 225 | 16.0 | 6.3 - 6.7 | 2.5 - 3.5 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-37791 |
| T50RSFT6.5 | 4.6 | 200.0 | 45.0 | 225 | 22.4 | 6.3 - 6.7 | 0.7 - 2.0 | PA66HS | PA66HS | Black (BK) | 2-10 | 156-01697 |
| T50RSFT6.5 16-3 | 4.6 | 200.0 | 49.0 | 222 | 16.0 | 6.3 - 6.7 | 2.5 - 3.5 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-37792 |
| T50RDHSFT6.5D18 | 4.7 | 210.0 | 45.0 | 225 | 18.0 | 6.5 - 6.8 | 0.4 - 1.6 | PA66 | PA46 | Natural (NA), Grey (GY) | 2-11;15 | 156-01720 |

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All dimensions in mm. Subject to technical changes.

| Rec | ommended | l Tools | | | | | | | | | |
|-----|----------|---------|-------|----------|------|-------|------|-----|------|--------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9SST |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 560 |







The additional seal protects against the ingress of moisture.

T50ROSSFT6.5-16-2MOD-MD

2-Piece Fixing Ties with Arrowhead, with Disc, for round holes, sealed

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Disc Ø | Hole Ø (FH) | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|---------------------------|--------------|---------------|---------------------|--------|-----------|----------------|--------------------|-----------------------|-----------------------|--------------|-------|-------------|
| T50ROSS FT6.5-D16-2 MD | 4.6 | 200.0 | 45.0 | 222 | 22.4 | 6.4 - 6.6 | 0.7 - 2.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-93100 |
| T50ROSS FT6.5-16-2-MD | 4.6 | 200.0 | 45.0 | 225 | 16.0 | 6.3 - 6.7 | 0.7 - 1.2 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 155-42002 |
| T50ROSS FT6.5 16-3MD | 4.6 | 200.0 | 45.0 | 225 | 16.0 | 6.1 - 7.0 | 2.5 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-37799 |
| T50RAHD6- MS-MD | 4.6 | 202.0 | 50.0 | 225 | 18.0 | 6.5 - 7.0 | 0.7 - 1.2 | PA66HS | PA66HS | Natural (NA) | 2-10 | 156-01193 |

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties with Arrowhead, with disc for oval holes



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T50RFT62x122



T50RFT6OVAL for oval holes 6.3 x 12.2 mm.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N | Hole Ø (FH) | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|----------------|--------------|---------------|------------------|--------|----------------|--------------------|-----------------------|-----------------------|------------|-------|-------------|
| T50RFT62x122HR | 4.6 | 202.0 | 45.0 | 225 | 6.3 x 12.2 | 0.6 - 3.0 | PA46 | PA46 | Grey (GY) | 2-10 | 156-00446 |
| T50RFT6OVAL | 4.6 | 202.0 | 45.0 | 355 | 6.3 x 12.2 | 0.6 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-37591 |

All dimensions in mm. Subject to technical changes.

Cable Ties and Fixings

Cable Ties With Fixing Elements

2-Piece Fixing Ties with Arrowhead, with Disc

2-Piece Fixing Ties with Arrowhead, for parallel routing

Features and benefits

- Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- DSFT-version for parallel rounting of two bundles



Material specification

please see page 26.



T50SOSDSFT6.5 for parallel routing.





T50SOSDSFT6.5

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| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Я N | Hole Ø (FH) | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|---------------|--------------|---------------|------------------|--------|----------------|--------------------|-----------------------|-----------------------|------------|-------|-------------|
| T50SOSDSFT6.5 | 4.6 | 150.0 | 15.0 | 225 | 6.3 - 6.7 | 0.7 - 1.5 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00133 |

All dimensions in mm. Subject to technical changes.

| Rec | Recommended Tools | | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--|--|--|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | | | | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | | | | | |

For more information on toolings please refer to the Application Tooling chapter.

HellermannTyton 107

For temperatures up to +240 °C, PEEK

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear and white goods manufacturing.

Features and benefits

- · Pre-assembled 2-piece fixing tie with arrowhead foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Arrowhead simply locks into place
- Disc adjusts tie for pressure from various directions and minimises access of dust, dirt and water
- Features Material PEEK
- -55 °C to +240 °C operating temperature
- · Excellent resistance against chemicals and gamma radiation





PEEK Fixing Ties can be used for small diameters from 1.0 mm.



Please find more PEEK products for your system solutions: PEEK Ties, see page 69. Screw Mount CTAM, see page 149.

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PT2AP1SFT6.5

PT2AP1SFT6.5

Л N Bundle Ø Width Length Disc Hole Ø Panel TYPE (W) max. (FH) Thickness Material Colour Tools Article-No. (L) Ø Grey (GY), T50ROSP1SFT6.5 4.6 200.0 45.0 225 16.0 6.3 - 6.7 0.7 - 1.3 PA46, PEEK 2;4-8 156-00455 Beige (BGE) Grey (GY), T50ROSP2SFT6.5 200.0 6.3 - 6.7 1.7 - 2.3 PA46, PEEK 156-00456 4.6 45.0 225 16.0 2;4-8 Beige (BGE) PT2AP1SFT6.5 3.4 145.0 35.0 16.0 230 6.3 - 6.7 0.7 - 1.3 PEEK Beige (BGE) 2;4-6 156-01090 3.4 16.0 PT2AP2SFT6.5 145.0 35.0 230 6.3 - 6.7 1.7 - 2.3 PEEK 2;4-6 156-01091 Beige (BGE) PT2AP3SFT6.5 34 145 0 32.0 230 16.0 6.3 - 6.7 1.2 - 1.8 PEEK Beige (BGE) 2;4-6 156-01146

All dimensions in mm. Subject to technical changes.

| Rec | ommended T | ools | | | | |
|-----|------------|-------|----------|------|-------|------|
| | 2 | 4 | 5 | 6 | 7 | 8 |
| | MK20 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P |
| | 551 | 552 | 552 | 554 | 555 | 556 |

1.6

1-Piece Fixing Ties with Fir Tree, with Disc

1-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear manufacturer, white goods manufacturer.

Features and benefits

- Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust, dirt and water
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes









T50SOSFT6-E2

T50SOSFT6LGE





T50SOSFT6D10E

T50SOSFT8E









Fir tree foot parts can be used for a variety of panel thicknesses.



L

T50SOSFT6D10E - One piece fixing tie with fir tree food part.



Special design without a gap between head and bundle; FT220DP7

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ς≥ | Disc Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|-----------------|--------------|---------------|------------------|-----|-----------|----------------|--------------------|----------|------------|-------|-------------|
| T18RDP5 | 2.5 | 110.0 | 20.0 | 80 | 13.0 | 4.9 - 5.1 | 3.0 - 4.0 | PA66 | Black (BK) | 2;4-6 | 150-55610 |
| T30SOS-AS-FT6-E | 3.5 | 126.4 | 25.0 | 200 | 16 | 6.3 - 6.7 | 0.6 - 4.0 | PA66HS | Black (BK) | 2;4-6 | 157-00243 |
| T50SOSFT6-E2 | 4.6 | 160.0 | 35.0 | 180 | 16.0 | 6.3 - 7.0 | 0.6 - 4.2 | PA66HS | Black (BK) | 2-10 | 157-00085 |
| 150505F10-E2 | 4.6 | 160.0 | 35.0 | 180 | 16.0 | 6.3 - 7.0 | 0.6 - 4.2 | PA66HS | Grey (GY) | 2-10 | 157-00198 |
| T50SOSFT6D10E | 4.6 | 163.0 | 32.0 | 225 | 9.8 | 5.8 - 6.2 | 0.8 - 5.5 | PA46 | Grey (GY) | 2-10 | 157-00028 |
| 150303F16D10E | 4.6 | 163.0 | 32.0 | 225 | 9.8 | 5.8 - 6.2 | 0.8 - 5.5 | PA66HS | Black (BK) | 2-10 | 157-00045 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended | Tools | | | | | | | | | |
|-----|----------|-------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| Ê | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

1-Piece Fixing Ties with Fir Tree, with Disc

1-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Я N | Disc Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|----------------|--------------|---------------|------------------|--------|-----------|--|--------------------|-----------|------------|--------|-------------|
| T50SOSFT8E | 4.6 | 163.0 | 35.0 | 225 | 16.0 | 8.0 - 8.5 | 0.6 - 6.0 | PA46 | Grey (GY) | 2-10 | 157-00115 |
| 130303F18E | 4.6 | 163.0 | 35.0 | 225 | 16.0 | 8.0 - 8.5 | 0.6 - 6.0 | PA66HS | Black (BK) | 2-10 | 157-00072 |
| T50SOSFT6LGE | 4.6 | 165.0 | 35.0 | 180 | 16.0 | 6.3 - 7.0 | 0.7 - 7.0 | PA66HS | Black (BK) | 2-10 | 157-00228 |
| T50SOSFT6LG-E2 | 4.6 | 167.0 | 35.0 | 180 | 16.0 | 6.1 - 6.9. 6.1 - 6.6 (hexagonal) | 0.6 - 8.3 | PA66HIRHS | Black (BK) | 2-10 | 157-00242 |
| T50SOSFT6-E3 | 4.7 | 161.0 | 35.0 | 150 | 16 | 6.1 - 6.9 | 0.7 - 3.5 | PA66HIRHS | Black (BK) | 2-10 | 157-00241 |
| T50SOSFT6E1 | 4.7 | 161.4 | 35.0 | 150 | 16.0 | 6.3 - 7.0 | 0.7 - 3.0 | PA66HIRHS | Black (BK) | 2-10 | 157-00033 |
| ISUSUSFICEI | 4.7 | 161.4 | 35.0 | 225 | 16.0 | 6.3 - 7.0 | 0.7 - 3.0 | PA46 | Grey (GY) | 2-10 | 157-00059 |
| FT220DP7 | 4.7 | 232.0 | 40.0 | 225 | 16.0 | 6.8 - 7.2 | 0.8 - 5.0 | PA66 | Black (BK) | 2-12 | 150-01700 |
| T50SOSFT6LG-E4 | 4.9 | 165.0 | 31.0 | 200 | 22.0 | 6.3 - 7.0 | 6.3 - 7.0 | PA66HS | Black (BK) | 2-10 | 157-00237 |
| T50ROSFTQM6 | 5.1 | 203.2 | 50.8 | 222 | 7.874 | 6.1 | 0.5 - 7.1 | PA66HIRHS | Black (BK) | 2-10 | 157-00112 |
| T50ROSFT6LGU | 5.1 | 220.0 | 50.0 | 225 | 15.9 | 6.5 - 7.2 | 0.6 - 8.5 | PA66HS | Black (BK) | 2-10 | 157-00052 |
| OS170FT7LH | 5.3 | 170.0 | 30.0 | 147 | 16.0 | 6.8 - 7.2 | 0.6 - 4.5 | PA66 | Black (BK) | 3;9-12 | 157-00019 |
| OS160FT6HEX | 5.3 | 170.0 | 30.0 | 200 | 16.0 | 6.35 (hexagonal) | 0.7 - 5.0 | PA66 | Black (BK) | 3;9-12 | 157-00080 |
| | 5.3 | 170.0 | 30.0 | 200 | 16.0 | 6.5 | 0.7 - 5.0 | PA66HS | Black (BK) | 3;9-12 | 157-00081 |
| OS180FT7LH | 5.3 | 180.0 | 30.0 | 200 | 16.0 | 6.5 - 7.0. 6.35 | 0.6 - 4.5 | PA66 | Grey (GY) | 3;9-12 | 157-00068 |
| | 5.3 | 180.0 | 30.0 | 200 | 16.0 | 6.5 - 7.0. 6.35 | 0.6 - 4.5 | PA66 | Black (BK) | 3;9-12 | 157-00070 |

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties with Fir Tree, with Disc 1-Piece Fixing Ties with Fir Tree, with Disc, releasable



Fir tree foot part can be used for a variety of panel thicknesses

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | S N N | Disc Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|-----------|--------------|---------------|------------------|-------------|-----------|----------------|--------------------|----------|------------|-------|-------------|
| REL30SDP6 | 5.0 | 170.0 | 31.0 | 135 | 22.0 | 6.3 - 7.1 | 3.0 - 7.0 | PA66 | Black (BK) | 2;4-6 | 150-55500 |

Material specification

please see page 26.

All dimensions in mm. Subject to technical changes.

| Rec | ommended T | ools | | | | | | | | |
|-----|------------|------|-------|----------|------|-------|------|-----|--------|------|
| | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 555 | 556 | 557 | 554 | 554 | 558 |

Cable Ties and Fixings

1-Piece Fixing Ties with Fir Tree and Disc, with Stand-off, for Round Holes

With Offset 12.5 and 25.0 mm

Features and benefits

- Bundling and fixing solution
- Ideal combination of materials and design
- Different positions of the fixing anchor are available to fit installation space
- 1-Piece Fixing Tie with defined offset 12.5 and 25.0 mm



T50ROSFT625SO and T50ROSFT612.5SO.



| | | | \frown |
|------|-----|--|----------|
| vT C | 7 | | (@ |
| | L E | | |

L

| | | Width | Lenath | Lenath | Bundle Ø | 冗 | Hole Ø | Panel | | | | |
|-----------------------|---------|-------|--------|--------|----------|--------|-----------------------------------|-----------|-----------|---------------|-------|-------------|
| ТҮРЕ | Drawing | (W) | (L) | (L2) | max. | ر ا | (FH) | Thickness | Material | Colour | Tools | Article-No. |
| T50ROSFT 612.5SO | | 5.1 | 234.2 | 12.5 | 50.0 | 222 | 6.1 - 6.9 | 0.6 - 6.0 | PA66HIRHS | Black (BK) | 2-10 | 157-00216 |
| T50ROSFT 6S25SO | | 5.1 | 242.2 | 25.0 | 50.0 | 220 | 6.1 - 6.9 | 0.6 - 3.8 | PA66HIRHS | Black (BK) | 2-10 | 157-00197 |
| T50ROSFT 825SO | | 5.1 | 245.1 | 25.0 | 50.0 | 220 | 7.6 - 8.4 | 0.6 - 6.0 | PA66HIRHS | Black (BK) | 2-10 | 157-00196 |
| | | 5.1 | 215.5 | 12.5 | 50.0 | 222 | 6.1 - 7.0 | 0.6 - 6.7 | PA66HIRHS | Grey (GY) | 2-10 | 157-00130 |
| T50ROSFT 6SO12.5A | | 5.1 | 215.5 | 12.5 | 50.0 | 222 | 6.1 - 7.0. 6.35 (hexagonal) | 0.6 - 6.7 | PA66HIRHS | Black (BK) | 2-10 | 157-00145 |
| T50ROSFT M6SO12.5A | Connel | 5.1 | 215.5 | 12.5 | 50.0 | 222 | M6 | 0.6 - 5.5 | PA66HIRHS | Grey (GY) | 2-10 | 157-00118 |
| T50ROSFT 8SO25A | | 5.1 | 230.0 | 25.0 | 50.0 | 222 | 7.6 - 8.4 | 0.6 - 6.7 | PA66HIRHS | Grey (GY) | 2-10 | 157-00120 |
| T50ROSFT | | 5.1 | 230.0 | 25.0 | 50.0 | 222 | 6.1 - 7.0 | 0.6 - 6.7 | PA46 | Brown (BN) | 2-10 | 157-00158 |
| 6SO25A | | 5.1 | 230.0 | 25.0 | 50.0 | 222 | 6.1 - 7.0 | 0.6 - 6.7 | PA66HIRHS | Grey (GY) | 2-10 | 157-00119 |
| T50ROSFT 6SO12.5B | | 5.1 | 215.5 | 12.5 | 50.0 | 222 | 6.1 - 7.0 | 0.6 - 6.7 | PA66HIRHS | Black (BK) | 2-10 | 157-00171 |
| T50ROSFT 6SO25B | | 5.1 | 230.0 | 25.0 | 50.0 | 222 | 6.1 - 7.0 | 0.6 - 6.7 | PA66HIRHS | Black (BK) | 2-10 | 157-00169 |
| T50ROSFT M6SO12.5B | | 15.0 | 215.5 | 12.5 | 50.0 | 225 | M6 | 0.6 - 5.5 | PA66HIRHS | Black (BK) | 2-10 | 157-00131 |
| T50ROSFT M6SO25B | Ŷ | 19.0 | 230.0 | 25.0 | 50.0 | 220 | M6 | 0.5 - 6.5 | PA66HIRHS | Black (BK) | 2-10 | 157-00172 |
| T50ROSFT 8SO25B | | 19.0 | 230.0 | 25.0 | 50.0 | 225 | 7.6 - 8.4 | 0.6 - 5.0 | PA66HIRHS | Black (BK) | 2-10 | 157-00170 |
| T50ROSFT 6SO12.5R | | 5.1 | 223.1 | 12.5 | 50.0 | 222 | 6.1 - 7.0 | 0.6 - 8.3 | PA66HIRHS | Black (BK) | 2-10 | 157-00165 |
| T50ROSFT 6SO25R | | 5.1 | 237.7 | 25.0 | 50.0 | 222 | 6.1 - 7.0 | 0.6 - 8.3 | PA66HIRHS | Black (BK) | 2-10 | 157-00164 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended To | ols | | | | | | | |
|-----|-------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

Primarily designed for fixing cable harnesses in the automotive industry, their simplicity and ease of use has resulted in these parts being used in other industries, for example aviation, switch gear manufacturer, white goods manufacturer.

Features and benefits

- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust, dirt and water
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes



These Fir-Tree fixings can also be used in threaded, blind holes.



Fir Tree Parts FT3

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | K ≥ | Disc Ø | Hole Ø (FH) | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|---------|--------------|---------------|------------------|--------|-----------|----------------|--------------------|-----------------------|-----------------------|------------|-------|-------------|
| T18RFT3 | 2.5 | 100.0 | 20.0 | 80 | 13 | M3 | 1.5 - 3.0 | PA66HSUV | PA66HSW | Black (BK) | 2;4-6 | 156-00338 |

All dimensions in mm. Subject to technical changes.

Fir Tree Parts FT5

| Width (W) | Length (L) | Bundle Ø max. | S ≥ | Disc Ø | Hole Ø (FH) | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|--------------|--|---|---|--|---|--|--|--|---|---|--|
| 2.5 | 100.0 | 22.0 | 80 | 16.0 | 4.5 - 5.0 | 0.7 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-01225 |
| 3.5 | 150.0 | 34.0 | 135 | 16.0 | 4.5 - 5.0 | 0.7 - 3.0 | PA46 | PA46 | Grey (GY) | 2;4-6 | 156-01316 |
| 3.5 | 150.0 | 34.0 | 135 | 16.0 | 4.5 - 5.0 | 0.7 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 150-55850 |
| 4.6 | 150.0 | 31.0 | 225 | 16.0 | 4.5 - 5.0 | 0.7 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-06200 |
| 4.6 | 150.0 | 35.0 | 225 | 16.0 | 4.5 - 5.0 | 0.7 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00432 |
| 4.6 | 200.0 | 45.0 | 225 | 16.0 | 4.5 - 5.0 | 0.7 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00025 |
| | (W) 2.5 3.5 3.5 4.6 4.6 | (W) (L) 2.5 100.0 3.5 150.0 3.5 150.0 4.6 150.0 4.6 150.0 | (W) (L) max. 2.5 100.0 22.0 3.5 150.0 34.0 3.5 150.0 34.0 4.6 150.0 31.0 4.6 150.0 35.0 | (W) (L) max. N 2.5 100.0 22.0 80 3.5 150.0 34.0 135 3.5 150.0 34.0 135 4.6 150.0 31.0 225 4.6 150.0 35.0 225 | (W) (L) max. Ø 2.5 100.0 22.0 80 16.0 3.5 150.0 34.0 135 16.0 3.5 150.0 34.0 135 16.0 4.6 150.0 31.0 225 16.0 4.6 150.0 35.0 225 16.0 | (W) (L) max. N Ø (FH) 2.5 100.0 22.0 80 16.0 4.5 - 5.0 3.5 150.0 34.0 135 16.0 4.5 - 5.0 3.5 150.0 34.0 135 16.0 4.5 - 5.0 4.6 150.0 31.0 225 16.0 4.5 - 5.0 4.6 150.0 35.0 225 16.0 4.5 - 5.0 | (W) (L) max. Ø (FH) Thickness 2.5 100.0 22.0 80 16.0 4.5 - 5.0 0.7 - 3.0 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 4.6 150.0 31.0 225 16.0 4.5 - 5.0 0.7 - 3.0 4.6 150.0 35.0 225 16.0 4.5 - 5.0 0.7 - 3.0 | (W) (L) max. Ø Ø (FH) Thickness Cable Tie 2.5 100.0 22.0 80 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS 4.6 150.0 31.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS 4.6 150.0 35.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS | (W) (L) max. N Ø (FH) Thickness Cable Tie Foot Part 2.5 100.0 22.0 80 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA46 PA46 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA46 PA46 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS 4.6 150.0 31.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS 4.6 150.0 35.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS 4.6 150.0 35.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS | (W) (L) max. Ø (FH) Thickness Cable Tie Foot Part Colour 2.5 100.0 22.0 80 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS Black (BK) 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA46 PA46 Grey (GY) 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA46 PA46 Grey (GY) 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS Black (BK) 4.6 150.0 31.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS Black (BK) 4.6 150.0 35.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS Black (BK) | (W) (L) max. Ø Ø (FH) Thickness Cable Tie Foot Part Colour Tools 2.5 100.0 22.0 80 16.0 4.5 - 5.0 0.7 - 3.0 PA66HS PA66HIRHS Black (BK) 2;4-6 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA46 PA46 Grey (GY) 2;4-6 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA46HS PA66HIRHS Black (BK) 2;4-6 3.5 150.0 34.0 135 16.0 4.5 - 5.0 0.7 - 3.0 PA46HS PA6HIRHS Black (BK) 2;4-6 4.6 150.0 31.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA6HS PA6HIRHS Black (BK) 2;4-6 4.6 150.0 35.0 225 16.0 4.5 - 5.0 0.7 - 3.0 PA6HS PA6HIRHS Black (BK) 2:10 4.6 150.0 35.0 < |

All dimensions in mm. Subject to technical changes.

Recommended Tools

| nec | onninenueu ru | JUIS | | | | | | | |
|-----|---------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes

Fir Tree Parts FT6





T50RFT6LG

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | R N | Disc Ø | Hole Ø (FH) | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|---------------------|--------------|---------------|------------------|--------|-----------|--|--------------------|-----------------------|-----------------------|---------------------------|-------|-------------|
| PT2AFT6 | 3.4 | 145.0 | 35.0 | 230 | 16 | 6.4 - 7.1 | 0.8 - 3.0 | PEEK | PA46 | Beige (BGE). Grey (GY) | 2;4-6 | 156-00890 |
| PT2AFT6LG | 3.4 | 145.0 | 35.0 | 230 | 16.0 | 6.4 - 7.1 | 0.8 - 6.0 | PEEK | PA46 | Beige (BGE). Grey (GY) | 2;4-6 | 156-01336 |
| T30RFT6 | 3.5 | 150.0 | 30.0 | 135 | 16.0 | 6.4 - 7.1 | 0.8 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 150-77950 |
| T30RFT6LG | 3.5 | 150.0 | 35.0 | 133 | 16.0 | 6.4 - 7.1 | 0.8 - 6.0 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 150-31090 |
| T30RFT6SD | 3.6 | 148.0 | 35.0 | 135 | 16.0 | 6.4 - 7.1 | 0.8 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 150-52690 |
| T50SFT6LG1SD | 4.6 | 160.0 | 30.0 | 225 | 16.0 | 6.5 - 7.0 | 0.6 - 6.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00154 |
| T50ROSFT6 | 4.6 | 200.0 | 45.0 | 225 | 16.0 | 6.4 - 7.1 | 0.8 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00076 |
| T50ROSFT6SD | 4.6 | 200.0 | 45.0 | 225 | 16.0 | 6.4 - 7.1 | 0.8 - 3.0 | PA46 | PA46 | Grey (GY) | 2-10 | 156-00085 |
| T50ROSFT6LG | 4.6 | 200.0 | 45.0 | 225 | 16.0 | 6.4 - 7.1 | 0.8 - 6.0 | PA66HS | PA66HIRHS | Black (BK) | 2;4-8 | 150-31099 |
| T50ROSFT6SD | 4.6 | 200.0 | 46.0 | 225 | 16.0 | 6.4 - 7.1 | 0.8 - 3.0 | PA66HS | PA66HIR | Black (BK) | 2-10 | 156-05902 |
| T50RFT6LGSD- HEX | 4.6 | 202.0 | 45.0 | 225 | 16.0 | 6.25 - 6.75. 6.1 - 6.6 (hexagonal) | 0.7 - 5.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-01705 |
| T50RFT6 | 4.6 | 202.0 | 45.0 | 225 | 16.0 | 6.4 - 7.1 | 0.8 - 3.0 | PA46 | PA46 | Grey (GY) | 2-10 | 150-77938 |
| ISURFIG | 4.6 | 202.0 | 45.0 | 225 | 16.0 | 6.4 - 7.1 | 0.8 - 3.0 | PA66HS | PA66 | Black (BK) | 2-10 | 150-77941 |
| T50RFT6LG | 4.6 | 202.0 | 44.0 | 225 | 16.0 | 6.4 - 7.1 | 0.8 - 6.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-31091 |
| T80IFT6LG | 4.6 | 300.0 | 81.0 | 356 | 16.0 | 6.4 - 7.1 | 0.8 - 6.0 | PA66HS | PA66HIRHS | Black (BK) | 2-12 | 150-31096 |
| T50RDHFT6 | 4.7 | 210.0 | 19.0 | 180 | 16.0 | 6.4 - 7.1 | 0.8 - 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-77936 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended | Tools | | | | | | | | | |
|-----|----------|-------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.

113

6

2-Piece Fixing Ties with Fir Tree, with Disc, for Round Holes



| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Disc Ø | Hole Ø (FH) | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|------------------|--------------|---------------|---------------------|--------|-----------|----------------|--------------------|-----------------------|-----------------------|------------|-----------|-------------|
| V150RFT10 | 3.3 | 150.0 | 35.0 | 150 | 18.0 | 9.7 - 10.0 | 0.8 - 5.0 | PA66 | PA66HS | Black (BK) | 2;4-6 | 156-01233 |
| T30RFT7 | 3.5 | 150.0 | 35.0 | 135 | 16.0 | 6.5 - 7.0 | 0.8 - 7.0 | PA66HS | PA66HS | Black (BK) | 2;4-6;8 | 156-00057 |
| T40RFT8GSD | 4.0 | 180.0 | 40.0 | 180 | 16.0 | 8.0 - 8.5 | 1.5 - 4.0 | PA66HS | PA66HIRHS | Black (BK) | 2;4-8 | 156-00104 |
| T50RFT7 | 4.6 | 200.0 | 44.0 | 225 | 16.0 | 6.5 - 7.0 | 0.8 - 7.0 | PA66HS | PA66HS | Black (BK) | 2-10 | 111-85871 |
| T50RFT10 | 4.6 | 200.0 | 45.0 | 225 | 18.0 | 9.7 - 10.0 | 0.8 - 5.0 | PA66HS | PA66HS | Black (BK) | 2-10 | 111-85810 |
| T50ROSFT10 | 4.6 | 200.0 | 45.0 | 225 | 18.0 | 9.7 - 10.0 | 0.8 - 5.0 | PA66HS | PA66HS | Black (BK) | 2-10 | 156-00120 |
| T50ROSFT8 GSD | 4.6 | 200.0 | 45.0 | 225 | 16 | M10 | 1.1 - 1.5 | PA66 | PA66 | Black (BK) | 2-10 | 156-01484 |
| T50RFT7HD | 4.6 | 200.0 | 45.0 | 225 | 21.6 | 6.2 - 7.2 | 0.8 - 7.0 | PA46 | PA46 | Brown (BN) | 2-10 | 156-00457 |
| T50RFT8 | 4.6 | 202.0 | 45.0 | 225 | 16.0 | 7.7 - 8.0 | 0.8 - 6.0 | PA66HS | PA66HS | Black (BK) | 2-10 | 111-85880 |
| T50RFT8GSD | 4.6 | 202.0 | 45.0 | 225 | 16.0 | 8.0 - 8.5 | 1.5 - 4.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 133-00034 |
| ISUKFIOUSD | 4.6 | 202.0 | 45.0 | 225 | 16.0 | 8.0 - 8.5 | 1.5 - 4.0 | PA46 | PA46 | Grey (GY) | 2-10 | 156-00235 |
| T50IFT7 | 4.6 | 300.0 | 81.0 | 225 | 16.0 | 6.5 - 7.0 | 0.8 - 7.0 | PA66HS | PA66HS | Black (BK) | 2-10 | 150-00700 |
| T50RDHFT8 | 4.7 | 210.0 | 19.0 | - | 16 | 7.7 - 8.0 | 180.0 - 6.0 | PA66 | PA66 | Black (BK) | 2-10 | 156-01612 |
| T120IFT9 | 7.6 | 300.0 | 80.0 | 535 | 20.0 | 9.0 - 10.6 | 5.0 - 11.0 | PA66HIR(S) | PA66HIR(S) | Black (BK) | 3;9-12 | 156-00200 |
| T120RFT9B | 7.6 | 380.0 | 100.0 | 535 | 21.6 | 8.7 - 9.2 | 1.0 - 15.8 | PA66HS | PA66HIRHSUV | Black (BK) | 3;9-11;15 | 156-00071 |
| T120RFT9A | 7.6 | 380.0 | 100.0 | 535 | 21.6 | 8.7 - 9.2 | 1.0 - 6.5 | PA66HS | PA66HIRHSUV | Black (BK) | 3;9-11;15 | 156-00067 |
| WSSFT9A | 12.7 | 228.0 | 57.0 | 534 | 21.6 | 8.75 - 9.25 | 1.0 - 6.5 | PA66HIRHSUV | PA66HIRHSUV | Black (BK) | 3;9-12 | 156-00068 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended | l Tools | | | | | | | | | | |
|-----|----------|---------|-------|----------|------|-------|------|-----|------|--------|------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 |

Cable Ties and Fixings

Cable Ties With Fixing Elements

1.6

2-Pieces Fixing Ties with Deep Hole Anchor, with Disc, for Round Holes

Deep Hole Anchor DHA5.5 - DHA8.4

Features and benefits

- Pre-assembled 2-piece fixing tie with deep hole anchor
- The high 'pull off' forces are due to the integrated metal clamp
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises access of dust, dirt and water
- Suitable for use within blind holes with or without thread



DHA5.5x15 and DHA8.4x20 for blind hole applications.



Fixing tie with deep hole anchor



Fixing tie with deep hole anchor

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | ך ₪ | Hole Ø (FH) | Panel Thickness | Material | Colour | Tools | Article-No. |
|---------------|---------|--------------|---------------|------------------|--------|----------------|--------------------|----------|-----------|-------|-------------|
| T50RDHA5.5x15 | | 4.6 | 202.0 | 45.0 | 225 | 5.4 - 5.6 | 15.0 | PA46 | Grey (GY) | 2-10 | 156-01203 |
| T50RDHA8.4x20 | | 4.6 | 202.0 | 45.0 | 225 | 8.3 - 8.5 | 20.0 | PA46 | Grey (GY) | 2-10 | 156-01155 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended To | ools | | | | | | | |
|-----|-------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

For more information on toolings please refer to the Application Tooling chapter.

HellermannTyton 115

1-Piece Fixing Ties for Weld Studs

For cable routing above the stud

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications where weld studs or ISO bolts are used and cables need to be bundled and secured (WS series, DCT9 & DCT 11 are for 1/4" bolts).

Features and benefits

- · Cable tie head always situated in defined position
- Easy to assemble without the need for a tool
- Bundle runs directly above weld stud with defined stand-off from the panel



The T50SSBS5OTE / T50SSBS6OT-E allows very precise routing of cable bundles.





T50SSBS6OT-E



T50SSBS50TE

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ς≥ | Stud Ø | Material | Colour | Tools | Article-No. |
|--------------|--------------|---------------|------------------|-----|-----------|----------|------------|-------|-------------|
| T50SSBS5OT-E | 4.6 | 160.0 | 35.0 | 200 | 5.0 | PA66HS | Black (BK) | 2-10 | 155-30602 |
| T50SSBS6OT-E | 4.6 | 160.0 | 35.0 | 200 | 6.0 | PA66HS | Black (BK) | 2-10 | 157-00083 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended To | ols | | | | | | | |
|-----|-------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

Cable Ties and Fixings

1

6

1-Piece Fixing Ties for Weld Studs

For cable routing alongside the stud

Features and benefits

- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Bundles are routed very close to stud



T50SOSSBD-M8/10.



T50SOSSBU-M8/10 for bundles which run below the stud.



This outside serrated cable tie with weld stud mounting keeps the cables close to the fixing stud.



L

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | ר א | Stud Ø | Material | Colour | Tools | Article-No. |
|---------------|----------|--------------|---------------|------------------|--------|-----------|----------|------------|-------|-------------|
| T50SOSSBD-M10 | <u>A</u> | 5.7 | 175.0 | 30.0 | 150 | 10.0 | PA66HSW | Black (BK) | 2-10 | 157-00040 |
| T50SOSSBU-M6 | | 5.7 | 175.0 | 30.0 | 150 | M6 | PA66HSW | Grey (GY) | 2-10 | 157-00065 |
| T50SOSSBD-M8 | B | 5.7 | 175.0 | 30.0 | 150 | 8.0 | PA66HSW | Black (BK) | 2-10 | 157-00039 |
| T50SOSSBU-M10 | E | 5.7 | 175.0 | 30.0 | 150 | 10.0 | PA66HSW | Grey (GY) | 2-10 | 157-00067 |
| T50SOSSBU-M8 | E C | 5.7 | 175.0 | 30.0 | 150 | 8.0 | PA66HSW | Grey (GY) | 2-10 | 157-00066 |
| T50SOSSBS5E-2 | | 4.7 | 161.0 | 35.0 | 225 | 5.0 | PA66HS | Black (BK) | 2-10 | 157-00252 |

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties for Weld Studs, moveable T50SOSWSP5E-2 for 5 mm studs, retainer height 3.5 mm

Primarily designed for use in the automotive industry, these parts can be used in a wide variety of applications, e.g. where weld studs or ISO bolts are used and cables need to be bundled and secured. (WS series, T120RSM, DCT9 & DCT 11 are for 1/4" bolts)

Features and benefits

- Cable tie head always situated in defined position
- Easy to install without the need for a tool
- Provides 5 6 mm lateral adjustment
- Very low profile, stackable design
- For parallel routing of several bundles



T50SOSWSP5E, parallel installation using two fixing ties.



T50S0SWSP5F-2

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ₹ N | Stud Ø | Material | Colour | Tools | Article-No. |
|---------------|--------------|---------------|------------------|--------|-----------|----------|------------|-------|-------------|
| T50SOSWSP5E-2 | 4.6 | 162.6 | 35.0 | 225 | 5.0 | PA66HS | Black (BK) | 2-10 | 133-01553 |

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties for Weld Studs, for Heavy Duty **Applications**

WS-Series for threaded studs

Wide strap stud-mounted cable ties are primarily designed for use in the automotive or truck industry.

Features and benefits

· Very flexible strap provides minimum pinching of soft hoses and convoluted tubing

L

- · Low profile head for compact bundling
- · Clamping rails to increase grip on round bundles
- Flexible hinge



Wide strap heavy duty stud mount cable ties.



The wide strap stud mount cable tie minimises pinching on soft bundles.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ₹ N | Stud Ø | Material | Colour | Tools | Article-No. |
|--------|--------------|---------------|------------------|--------|-----------|-------------|------------|-------|-------------|
| WSS8MM | 12.7 | 246.4 | 57.1 | 534 | 8.0 | PA66HIRHSUV | Black (BK) | 11-12 | 157-00034 |
| WSI8MM | 12.7 | 322.6 | 82.5 | 534 | 8.0 | PA66HIRHSUV | Black (BK) | 11-12 | 157-00035 |
| WSR8MM | 12.7 | 398.8 | 104.1 | 534 | 8.0 | PA66HIRHSUV | Black (BK) | 11-12 | 157-00036 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended | Tools | | | | | | | | | |
|-----|----------|-------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| Ê | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

Fixing Ties for Weld Studs, for parallel routing

Many applications require cables to be run parallel to each other but separated to avoid abrasion. The double mounting base, when used with two cable ties allows this to be achieved simply and quickly.

Features and benefits

- · Pre-assembled 2-piece fixing tie with stud retainer
- For parallel routing of cables, hoses or harnesses
- Cable tie head can be moved after bundling
- Easy to install without the need for a tool
- For 5 mm studs or 5 mm ISO threaded studs



Parallel fixation of two cables.



2-Piece Fixing Ties for Weld Studs

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ر ا | Stud Ø | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|-------------|--------------|---------------|------------------|--------|-----------|-----------------------|-----------------------|------------|-------|-------------|
| T50SDSBS5 | 4.6 | 150.0 | 35.0 | 225 | 5.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-56193 |
| T50ROSDSBS5 | 4.6 | 200.0 | 45.0 | 222 | 5.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-56199 |

All dimensions in mm. Subject to technical changes.

1-Piece Fixing Ties for Weld Studs for Heavy Duty Applications



Dual Clamp Ties (DCT)

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Stud Ø | Material | Colour | Tools | Article-No. |
|-------|--------------|---------------|------------------|-----------|-------------|------------|--------|-------------|
| DCT11 | 12.7 | 489.0 | 58.0 | 6.35 | PA66HIRHSUV | Black (BK) | 3;9-12 | 115-31100 |
| DCT9 | 12.8 | 331.0 | 33.0 | 6.35 | PA66HIRHS | Black (BK) | 2-11 | 115-00034 |

All dimensions in mm. Subject to technical changes.

| Rec | Recommended Tools | | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|--|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | | | |

1-Piece Fixing Ties with Mounting Head for Screws

This range of one piece cable ties have a built in mounting hole and once fastened around the cables the bundle can be simply secured to the panel with a screw or bolt.

The tie is fitted to the panel first and then the cables can be added.

Features and benefits

• One-piece bundling and fixing tie

T()MR Series with Mounting Head for Screw fixing

• Quick and easy installation



The mounting head ties can be easily screwed onto a panel.

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| | Iw |



Material specification please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ₹ N | Hole Ø (FH) | Material | Colour | Tools | Article-No. |
|----------|--------------|---------------|------------------|--------|----------------|-------------|--------------|--------|-------------|
| T18MR | 2.5 | 110.0 | 20.0 | 80 | 3.1 | PA66 | Black (BK) | 2;4-6 | 113-01810 |
| I IOIVIN | 2.5 | 110.0 | 20.0 | 80 | 3.1 | PA66 | Natural (NA) | 2;4-6 | 113-01819 |
| TOMP | 3.5 | 160.0 | 32.0 | 135 | 4.3 | PA66 | Black (BK) | 2;4-6 | 113-03010 |
| T30MR | 3.5 | 160.0 | 32.0 | 135 | 4.3 | PA66 | Natural (NA) | 2;4-6 | 113-03019 |
| T50MS | 4.6 | 165.0 | 32.0 | 225 | 5.3 | PA66 | Natural (NA) | 2-10 | 113-05819 |
| IJUIVIS | 4.6 | 165.0 | 32.0 | 225 | 5.3 | PA66 | Black (BK) | 2-10 | 113-05820 |
| | 4.7 | 215.0 | 45.0 | 225 | 5.4 | PA66 | Black (BK) | 2-10 | 113-05010 |
| T50MR | 4.7 | 215.0 | 45.0 | 225 | 5.4 | PA66 | Natural (NA) | 2-10 | 113-05019 |
| | 4.7 | 215.0 | 45.0 | 225 | 5.4 | PA66W | Black (BK) | 2-10 | 113-05060 |
| T50ML | 4.7 | 390.0 | 100.0 | 225 | 5.5 | PA66 | Natural (NA) | 2-10 | 113-05419 |
| | 7.6 | 395.0 | 102.0 | 535 | 6.5 | PA66 | Black (BK) | 3;9-12 | 113-12020 |
| T120MR | 7.6 | 395.0 | 102.0 | 535 | 6.5 | PA66 | Natural (NA) | 3;9-12 | 113-12029 |
| | 7.6 | 395.0 | 102.0 | 535 | 6.5 | PA66HIRHSUV | Black (BK) | 3;9-12 | 113-12060 |

All dimensions in mm. Subject to technical changes.

| Rec | Recommended Tools | | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--------|------|--|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | | | |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.

Cable Ties and Fixing Elements

Fixing Ties for Edges EdgeClip-Family

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. Once the cable tie is fastened around the cables the EdgeClip is presented ready for attaching to the panel. Widely used within the automotive and panel building industries these cable ties and EdgeClips save time and money.

Features and benefits

- Easy assembly, just clip on per hand
- For edges of $1-3\ \text{mm}$ or $3-6\ \text{mm}$
- · Integrated metal clamp holds clip firmly in place
- Clamp consists of double tempered steel spring
- Ideal for applications where holes or adhesives are not suitable



T50ROSEC10 fitted onto a plastic panel to hold a Ø 6 mm harness



1-Piece Fixing Tie T50SOSEC12 can be pushed easily on edges.

The silver-grey clamp, the heart of our EdgeClips, consists of doubletempered spring steel in accordance with DIN EN 10132-4 C755. The spring steel gives the clamp both the necessary rigidity to provide high pull-off forces and also sufficient flexibility for various possible applications.

One Step to the Web!

The double coating is applied initially with a zinc plate system followed by inorganic surface sealing. Naturally, no chromium (VI) is used in this

process. The clamp therefore complies with the current EU Directive 200/53/EC on end of life vehicles and the prohibition on heavy metals. The refined spring-steel clamp also fulfils the requirements for resistance to salt spray stipulated in DIN EN ISO 9227 NSS (min. 840 h without corrosion of base metal) and DIN EN ISO 6270-Z-CH (min. 720 h without corrosion of base material). This solution has therefore been approved by many OEMs for exposed installation locations, e.g. in engine compartments and the running-gear area.

HellermannTyton 121

Fixing Ties for Edges

EdgeClip-Family

| Material |
|-----------|
| please se |

specification ee page 26.

| | ₹ | IW |
|-------------|---|----|
| TEACOCECTOE | | |

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EdgeClips are also available on request for panel thickness from 4 - 7 mm.

T50SOSEC12E

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | א צ | Panel Thickness | Material | Colour | Tools | Article-No. |
|--------------|---------|--------------|---------------|------------------|--------|--------------------|----------|------------|-------|-------------|
| | EN V | 4.6 | 160.0 | 35.0 | 150 | 1.0 - 3.0 | PA66HS | Black (BK) | 2-10 | 148-00200 |
| T50SOSEC12E | | 4.6 | 160.0 | 35.0 | 150 | 1.0 - 3.0 | PA46 | Grey (GY) | 2-10 | 126-00253 |
| T50SOSEC13E | | 4.6 | 160.0 | 35.0 | 180 | 1.0 - 3.0 | PA66HS | Black (BK) | 2-10 | 126-00000 |
| T40XEC5SP-E | | 4.0 | 85.0 | 15.0 | 178 | 1.0 - 3.0 | PA66HS | Black (BK) | 2;4-8 | 133-00059 |
| T50SOSEC34E | | 4.6 | 155.0 | 35.0 | 180 | 1.0 - 3.0 | PA66HS | Black (BK) | 2-10 | 126-00036 |
| T50SOSEC20-E | | 4.6 | 161.0 | 35.0 | 180 | 3.0 - 6.0 | PA66HS | Black (BK) | 2-10 | 126-00235 |

All dimensions in mm. Subject to technical changes.

| Rec | Recommended Tools | | | | | | | | | | | | | |
|-----|-------------------|------|-------|----------|------|-------|------|-----|------|--|--|--|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | | | | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | | | | | |

6

2-Piece Fixing Ties for Edges, 1.0 - 3.0 mm, Top Fixing

EdgeClip-Family

Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling
- EC9, EC10, EC21 and EC22 are for minimum bundle diameters of 1 mm
- For edges of 1 3 mm





T50ROSEC10 fitted onto a plastic panel to hold a Ø 6 mm harness.

Fixing Tie with EC4

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Я [N] | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|--------------|---------|--------------|---------------|------------------|----------|-----------------------|-----------------------|--------------------------|---------|-------------|
| T30REC4A | Draming | 3.6 | 148.0 | 33.0 | 135 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 150-76090 |
| T50SOSEC4A | | 4.6 | 150.0 | 35.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-76093 |
| T50ROSEC4A | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-76099 |
| T50ROSEC4A-W | | 4.6 | 200.0 | 45.0 | 225 | PA66W | PA66W | Black (BK) | 2-10 | 156-00570 |
| T50REC4A | - Ale | 4.6 | 202.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-76091 |
| T50RDHEC4A | | 4.7 | 210.0 | 19.0 | 225 | PA66 | PA66HIRHS | Natural (NA), Black (BK) | 2-10 | 156-01721 |
| T30REC4B | | 3.6 | 148.0 | 35.0 | 135 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6;8 | 150-76080 |
| T50SOSEC4B | | 4.6 | 150.0 | 35.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00109 |
| T50ROSEC4B | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-76079 |
| T18REC10SD | Â. | 2.5 | 100.0 | 22.0 | 80 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6;8 | 155-38304 |
| T50SOSEC10 | | 4.6 | 150.0 | 31.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00015 |
| T50ROSEC10 | 160 | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-05904 |
| T18REC9SD | J.J. | 2.5 | 100.0 | 22.0 | 80 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6;8 | 155-37104 |
| T50SOSEC9SD | | 4.6 | 150.0 | 31.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00019 |
| T50ROSEC9 | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-05903 |
| T50REC9SD | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-01280 |
| Q50REC4A | | 4.7 | 210.0 | 45.0 | 220 | PA66W | PA66W | Black (BK) | 2-10 | 156-01085 |
| Q50REC4B | | 4.7 | 210.0 | 45.0 | 220 | PA66W | PA66W | Black (BK) | 2-10 | 156-01086 |

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties for Edges, 1.0 - 3.0 mm, Side Fixing

EdgeClip-Family

Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling

Material specification

please see page 26.

- EC9, EC10, EC21 and EC22 are for minimum bundle diameters of 1 mm
- For edges of 1 3 mm



T50ROSEC23 - the cable bundle runs parallel with the edge.

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | S ∠ | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|------------|---------|--------------|---------------|------------------|--------|-----------------------|-----------------------|--------------------------|-------|-------------|
| T30REC5A | | 3.6 | 148.0 | 33.0 | 135 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-00003 |
| T50SOSEC5A | | 4.6 | 150.0 | 31.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-40593 |
| T50ROSEC5A | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-40591 |
| T50SOSEC5B | | 4.6 | 150.0 | 31.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-40583 |
| T50REC5B | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-40582 |
| T50ROSEC5B | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 150-40581 |
| T18REC21 | | 2.5 | 100.0 | 18.0 | 80 | PA66W | PA66HIRHS | Black (BK) | 2;4-6 | 156-01231 |
| T50SOSEC21 | | 4.6 | 150.0 | 35.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00017 |
| T50ROSEC21 | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00010 |
| T80REC21 | 1 | 4.7 | 205.0 | 55.0 | 355 | PA66HS | PA66HIRHS | Natural (NA), Black (BK) | 2-10 | 156-01728 |
| T50ROSEC22 | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00011 |
| T50REC22 | | 4.6 | 200.0 | 45.0 | 225 | PA66W | PA66HIRHS | Black (BK) | 2-10 | 156-00576 |
| Q50REC5A | | 4.7 | 210.0 | 45.0 | 220 | PA66W | PA66W | Black (BK) | 2-10 | 156-01087 |
| Q50REC5B | | 4.7 | 210.0 | 45.0 | 220 | PA66W | PA66W | Black (BK) | 2-10 | 156-01088 |

All dimensions in mm. Subject to technical changes.

| Rec | commended To | Recommended Tools | | | | | | | | | | | | | |
|-----|--------------|-------------------|-------|----------|------|-------|------|-----|------|--|--|--|--|--|--|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | | | | | | |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | | | | | | |

2-Piece Fixing Ties for Edges, 3.0 - 6.0 mm, **Top Fixing**

EdgeClip-Family

Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling
- For minimum bundle diameters of 1 mm
- For edges of 3 6 mm



Pre-assembled 2-piece fixing tie with EdgeClip.

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | S N | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|------------|---------|--------------|---------------|------------------|--------|-----------------------|-----------------------|------------|-------|-------------|
| T18ROSEC19 | X | 2.5 | 100.0 | 20.0 | 80 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-04600 |
| T50SOSEC19 | | 4.6 | 150.0 | 35.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-04601 |
| T50ROSEC19 | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-04602 |
| T50SOSEC20 | | 4.6 | 150.0 | 35.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00016 |
| T50ROSEC20 | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00020 |

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties for Edges, 3.0 - 6.0 mm, **Side Fixing**



Other combinations between cable tie and foot part available on request.

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | ¢≥ | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|------------|---------|--------------|---------------|------------------|-----|-----------------------|-----------------------|--------------------------|-------|-------------|
| T50ROSEC23 | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00006 |
| T80REC23 | | 4.7 | 205.0 | 55.0 | 355 | PA66HS | PA66HIRHS | Natural (NA), Black (BK) | 2-10 | 156-01729 |
| T50ROSEC24 | | 4.6 | 200.0 | 45.0 | 225 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00007 |

All dimensions in mm. Subject to technical changes.

| Rec | commended To | ols | | | | | | | |
|-----|--------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

2-Piece Fixing Ties for Edges, 0.5 - 2.5 mm, Top Fixing

EdgeClip-Family for flat and thin edges

These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel buidling and electrical industry. These EdgeClips are specially designed for applications where space is limited such as in mirrors and headlights.

Features and benefits

- For flat edges
- For thin edges 0.5 2.5 mm
- Small housing for limited space
- Pre-assembled 2-piece fixing tie with EdgeClip
- Cable tie head can be moved after bundling



T30ROSEC0, 5-2, 5SPV for application on thin edges.



The capabilities of our popular Edge Clip family have been enhanced with the introduction of new, smaller clips. These smaller clips allow bundles to run more safely on thin or flat edges.

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | ך ₪ | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|--------------------------|---------|--------------|---------------|------------------|--------|--------------------|-----------------------|-----------------------|------------|-------|-------------|
| T30ROSEC0.5- 2.5TP-SD | | 3.4 | 145.0 | 35.0 | 135 | 0.5 - 2.5 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-01543 |
| T30ROSEC0.5- 2.5TV-SD | | 3.4 | 145.0 | 35.0 | 135 | 0.5 - 2.5 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-01545 |
| T30ROSEC0.5- 2.5TPVA | | 3.4 | 145.0 | 35.0 | 135 | 0.5 - 2.5 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-01542 |

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties for Edges, 0.5 - 2.5 mm, Side Fixing

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | ך ₪ | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|---------------------------|---------|--------------|---------------|------------------|--------|--------------------|-----------------------|-----------------------|------------|-------|-------------|
| T30ROSEC0.5- 2.5SP-SVB | | 3.4 | 145.0 | 35.0 | 135 | 0.5 - 2.5 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-01546 |
| T30ROSEC05- 2.5SPSVA | | 3.4 | 145.0 | 35.0 | 133 | 0.5 - 2.5 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-01797 |
| T30ROSEC0.5- 2.5SPVA | | 3.4 | 145.0 | 35.0 | 135 | 0.5 - 2.5 | PA66HS | PA66HIRHS | Black (BK) | 2;4-6 | 156-01544 |

All dimensions in mm. Subject to technical changes.

| Rec | Recommended Tools | | | | | | | | | | |
|-----|-------------------|-------|----------|------|--|--|--|--|--|--|--|
| | 2 | 4 | 5 | 6 | | | | | | | |
| | MK20 | MK3SP | MK3PNSP2 | EVO7 | | | | | | | |
| | 551 | 552 | 552 | 554 | | | | | | | |

2-Piece Fixing Ties for Edges, twistable EdgeClip-Family

These cable ties and Edge Clip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry.

Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip
- Easy to assemble by hand
- Cable tie head can be moved after bundling
- + For edges of $1-2.5\ \text{mm}$ or $1-3\ \text{mm}$
- Can be rotated to the desired position during mounting



EdgeClip CBTO50R, rotatable 90°.

Material specification

please see page 26.



CBT30MR

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | K ≥ | Panel Thickness | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|---------------|---------|--------------|---------------|---------------------|--------|--------------------|-----------------------|-----------------------|------------|-------|-------------|
| CBT30MR | | 3.5 | 160.0 | 32.0 | 135 | 2.5 | PA66HS | POM | Black (BK) | 2;5-6 | 156-00049 |
| CBTO50R | 0 | 4.6 | 202.0 | 47.0 | 225 | 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-01601 |
| CBTOS50RSTUD5 | | 4.6 | 200.0 | 47.0 | 225 | 3.0 | PA66HS | PA66HIRHS | Black (BK) | 2-10 | 156-00380 |

All dimensions in mm. Subject to technical changes.

| Rec | ommended To | ols | | | | | | | |
|-----|-------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

For more information on toolings please refer to the Application Tooling chapter.

127
Heavy Duty Harness Clips

Beam Clamps

Primarily designed for use in the automotive/truck industry, these parts can be used in a wide variety of industries and applications where bundles need mounting.

These heavy duty harness clips help to fix and secure cables, lines and hydraulic lines in truck, agriculture and railway vehicle construction, as well as in the ship building industry and industrial buildings.

Features and benefits

- Easy to install
- No demage to surfaces
- Easy maintenance of bundle by simply changing cable tie
- Cable tie head can be moved after bundling
- Applicable to a wide range of panel thicknesses





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The Beam Clamp can be fixed onto a beam with a wedge. Up to two bundles can be routed on the top or rear side of the clamp.



Material specification please see page 26.

| ТҮРЕ | Drawing | Width (W) | Length (L) | Height (H) | Height (H2) | Panel Thickness | Material | Colour | Article-No. |
|------------------------|---------|--------------|---------------|---------------|----------------|--------------------|----------|------------|-------------|
| Beam Clamp D | A | 28.6 | 46.2 | 36.7 | 12.5 | 5.5 - 7.0 | PA6GF30 | Black (BK) | 151-00886 |
| Beam Clamp B | | 28.6 | 46.2 | 36.7 | 12.5 | 7.0 - 8.5 | PA6GF30 | Black (BK) | 151-00822 |
| Beam Clamp C | | 28.6 | 46.2 | 36.7 | 12.5 | 8.5 - 10.5 | PA6GF30 | Black (BK) | 151-00823 |
| Beam Clamp D with foam | A | 28.6 | 46.2 | 36.7 | 12.5 | 5.5 - 7.0 | PA6GF30 | Black (BK) | 151-01188 |
| Beam Clamp B with foam | | 28.6 | 46.2 | 36.7 | 12.5 | 7.0 - 8.5 | PA6GF30 | Black (BK) | 151-01186 |
| Beam Clamp C with foam | | 28.6 | 46.2 | 36.7 | 12.5 | 8.5 - 10.5 | PA6GF30 | Black (BK) | 151-01187 |



Little Newcomer Joins the EdgeClip-Family







We developed the first EdgeClip over 15 years ago for the automotive industry.

The newest member of the steadily growing EdgeClip-Family is the ideal fixing solution on edges. It can be used wherever space is limited and only a narrow or flat edge is available, or whenever gluing or drilling is not possible. Specially designed for all industries, for example white goods or solar.

Follow the QR code to discover the EC0.5!





2-Piece Fixing Ties with Pipe Clip

These fasteners interconnect two different bundles of goods, of various size and type. The mobility of the fixing tie provides a secure grip and protects the cables or bundles, even in difficult conditions.

Features and benefits

- · Easy to assemble
- For routing of two different bundles
- For post-installation of additional cables for pre-assembled cable looms
- Ideally used in the automotive industry, but also in all industries where bundles, cables have to be routed and connected

2-Piece Fixing Ties with Pipe Clip, twistable 360°

Features and benefits

- Simply clip on a wire or hose
- Fixing clip offers full 360° rotation
- Routed cable can move in any direction in relation to the fixing point
- Inside serrated cable tie
- Ideally used in the Automotive Industry



2-Piece Fixing Ties with Pipe Clip

Features and benefits

- For post-installation of additional cables for pre-assembled cable looms
- Variety of twist angles and even different loop directions provide flexibility for cable routing
- For OC1 and 2A additional cable tie dimensions are available
- CBTO-series for cable ties up to 5 mm



Cable Ties and Fixings

1.6



Other product variants are available in our Automotive catalogue.

2-Piece Fixing Ties with Pipe Clip, twistable 360°

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Attach to Ø | Material | Colour | Tools | Article-No. |
|-----------------|---------|--------------|---------------|------------------|----------------|-------------------|-----------------------------|-------|-------------|
| T50SVC4S | | 4.7 | 155.0 | 35.0 | 3.8 - 4.2 | PA66HS, PP | Black (BK), Natural (NA) | 2-10 | 156-01374 |
| T50SVC6,5 | | 4.7 | 155.0 | 35.0 | 6.5 - 8.0 | PA66HS, PA66HIRHS | Black (BK) | 2-10 | 156-01371 |
| T50SVCOC10-14 | | 4.7 | 155.0 | 35.0 | 10.0 - 14.0 | PA46 | Grey (GY) | 2-10 | 156-01385 |
| T50SVCOC19-24.5 | | 4.7 | 155.0 | 35.0 | 19.0 - 24.5 | PA66HS, PA66HIRHS | Black (BK) | 2-10 | 156-01369 |

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties with Pipe Clip

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Attach to Ø | Material | Colour | Tools | Article-No. |
|----------|---------|--------------|---------------|------------------|----------------|-------------------|------------|-------|-------------|
| T50ROC1B | | 4.6 | 202.0 | 45.0 | 4.0 - 10.0 | PA66HS, PA66HIRHS | Black (BK) | 2-10 | 156-00306 |

All dimensions in mm. Subject to technical changes.

2-Piece Fixing Ties with Pipe, twistable 90°

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Attach to Ø | ς≥ | | Material Foot Part | Colour | Tools | Article-No. |
|---------------|---------|--------------|---------------|------------------|----------------|-----|------------|-----------------------|------------|-------|-------------|
| T50RIAHC1TICR | | 4.6 | 200.0 | 50.0 | 3.0 - 13.0 | 225 | PA66HIR(S) | PA66HIRHS | Black (BK) | 2-10 | 156-05331 |
| T50RIAHC2TICR | 0 | 4.6 | 200.0 | 50.0 | 11.0 - 20.0 | 225 | PA66HIR(S) | PA66HIRHS | Black (BK) | 2-10 | 156-05330 |

All dimensions in mm. Subject to technical changes.

| Rec | commended T | ools | | | | | | | |
|-----|-------------|------|-------|----------|------|-------|------|-----|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 |

For more information on toolings please refer to the Application Tooling chapter.

2-Piece Fixing Ties for parallel separation

Features and benefits

- · Pre-assembled 2-piece fixing tie with coupler
- Cable tie head can be moved after bundling
- Easy addition of cables after assembly
- For parallel routing of bundles that can be twisted 90° even after installation





T120RCOUPLER can be used for parallel routing of two cable ties.

The second tie can be used for postinstallations.

Fixing Element - COUPLER





Two Cable Ties with Coupler

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | ς≥ | Material Cable Tie | Material Foot Part | Colour | Tools | Article-No. |
|--------------------|--------------|---------------|------------------|-----|-----------------------|-----------------------|------------|--------|-------------|
| T50RCOUPLER | 4.6 | 202.0 | 47.0 | 225 | PA46 | PA46 | Grey (GY) | 2-10 | 156-00382 |
| ISURCOUPLER | 4.6 | 202.0 | 47.0 | 225 | PA66HIR(S) | PA66HIRHS | Black (BK) | 2-10 | 156-00276 |
| T50RSINGLECOUPLER | 4.6 | 202.0 | 47.0 | 225 | PA66HIRHS | PA66HIRHS | Black (BK) | 2-10 | 156-01134 |
| T120RCOUPLER | 7.6 | 390.0 | 105.0 | 535 | PA66HIR(S) | PA66HIRHS | Black (BK) | 3;9-12 | 156-00275 |
| T120RSINGLECOUPLER | 7.6 | 390.0 | 105.0 | 535 | PA66HIR(S) | PA66HIRHS | Black (BK) | 3;9-12 | 156-00550 |

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T120RCOUPLER

All dimensions in mm. Subject to technical changes.

| Rec | ommended | Tools | | | | | | | | | |
|-----|----------|-------|-------|----------|------|-------|------|-----|------|--------|------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 |

For more information on toolings please refer to the Application Tooling chapter.

2-Piece Fixing Ties for Heavy Duty Applications, for Screws

Used in the automotive and truck industry for harness fixing in the engine body, these parts offer solutions in many other industrial applications with difficult environment.

Features and benefits

- Pre-assembled 2-piece fixing tie
- Cable tie head can be moved after bundling
- Secure alignment to the bundle due to H-design
- A suitable alternative for metal clamps
- Withstands vibrations and displacement forces
- High tightening torque through metal bushing



These HDM are suitable for assembling on screws.



HDM with cable tie (L = length of the tie"flat")

HDM-Series



DHDM for parallel routing of bundles.

| ТҮРЕ | Width (W) | Width (W2) | Length (L) | Length (L2) | Height (H) | Bundle Ø max. | Mounting Screw Type | Material | Colour | Tools | Article-No. |
|--------------------|--------------|---------------|---------------|----------------|---------------|------------------|---------------------------|----------------------|------------|------------|-------------|
| T50RHDM6 | 4.6 | 20.0 | 200.0 | 37.5 | 16.0 | 50.0 | M6 | PA66HIRHS | Black (BK) | 2-10 | 156-00410 |
| T50RHDM8 | 4.6 | 20.0 | 200.0 | 37.5 | 16.0 | 50.0 | M8 | PA66HIRHS | Black (BK) | 2-10 | 156-00412 |
| X80RHDM6O | 4.6 | 26.0 | 200.0 | 34.7 | 15.5 | 23.0 | M6 | PA66HS, PA66HIRHS | Black (BK) | 2-12 | 156-01425 |
| T120SHDM8 | 7.6 | 20.0 | 225.0 | 38 | 15.6 | 55.0 | - | PA46 | Grey (GY) | 9-10;12;15 | 156-00429 |
| T120RHDM6 | 7.6 | 20.0 | 390.0 | 37.5 | 16.0 | 105.0 | M6 | PA46 | Grey (GY) | 3;9-12 | 156-00407 |
| I IZUKHDIVIO | 7.6 | 20.0 | 390.0 | 37.5 | 16.0 | 105.0 | M6 | PA66HIRHS | Black (BK) | 3;9-12 | 156-00406 |
| T120RHDM8 | 7.6 | 20.0 | 390.0 | 37.5 | 16.0 | 105.0 | M8 | PA46 | Grey (GY) | 3;9-12 | 156-00409 |
| | 7.6 | 20.0 | 390.0 | 37.5 | 16.0 | 105.0 | M8 | PA66HIRHS | Black (BK) | 3;9-12 | 156-00408 |
| X120RHDM 65x160 | 7.7 | 32.0 | 369.0 | 40.2 | 15.5 | 100.0 | M6 | PA66HIRHS | Black (BK) | 3;9-12 | 156-01466 |

All dimensions in mm. Subject to technical changes.

DHDM-Series

| ТҮРЕ | Width (W) | Width (W2) | Length (L) | Length (L2) | Height (H) | Bundle Ø max. | Mounting Screw Type | Material | Colour | Tools | Article-No. |
|--------------|--------------|---------------|---------------|----------------|---------------|------------------|------------------------|------------------|------------|--------|-------------|
| T120ROSDHDM6 | 7.6 | 25.4 | 385.0 | 59.4 | 15.5 | 105.0 | M6 | PA66W, PA66HS | Black (BK) | 3;9-12 | 156-01485 |
| X120RDHDM6 | 7.7 | 25.4 | 369.0 | 59.4 | 15.5 | 100.0 | M6 | PA66HIRHS | Black (BK) | 3;9-12 | 156-01096 |
| X120RDHDM8 | 7.7 | 25.4 | 369.0 | 59.4 | 15.5 | 100.0 | M8 | PA66HIRHS | Black (BK) | 3;9-12 | 156-01097 |

Information and installation instructions for self-adhesive mounting bases

HellermannTyton uses different types of adhesives for self-adhesive bases: acrylate and synthetic rubber. These differ in the operating temperature range and the 'pull off' force of the adhesive. Synthetic rubber has an excellent initial grip, allowing for almost immediate use. Acrylate adhesive has less initial grip, so there is a need to wait for a few hours before use, but has a higher 'pull off' force than synthetic rubber. This enables a permanent fixing lasting months or even years.

| ADHESIVE | | Adhesive Operating Temperature | | |
|--|-------------------------|-----------------------------------|--|--|
| Synthetic rubber with base of | Synthetic rubber T50 | -20 °C to +50 °C | | |
| polyethylene foam | Synthetic rubber T60 | -40 °C to +60 °C | | |
| Acrylate with base of polyurethane foam | Acrylate | to +105 °C | | |
| Acrylate with base of acrylic foam | mod. Acrylate | -30 °C to +120 °C | | |

Instructions for use





1. The surface must be dry, free from dust, oil, oxides, parting agents and other impurities. The surface to be glued should be cleaned using a clean cloth and isopropanol / water (50/50). When using other appropriate cleaning agents, ensure that they do not attack the surface nor leave any residues. After cleaning allow the surface to air-dry completely.

Advantages of our self-adhesive mounts with mod. Acrylate (SolidTack / FlexTack)

- Acrylic Foam Tape is made from a homogeneous system of high performance acrylic adhesive
- Very good initial bond
- High temperature resistance
- Adhesive offers design freedom, no need for bolts or screws
- Reduces the risk of corrosion, no need for boreholes



Shear resistance. Shear force pulls the adhesive surfaces in opposite directions along a parallel line.



Tensile strength. Tension force pulls surfaces apart perpendicular to the adhesive bond.



 Peel off protective backing and ensure the adhesive area is not touched.



 Press down firmly on the base with the thumbs for several seconds.



 Depending on the type of adhesive, wait for several minutes (synthetic rubber) or hours (acrylate) so that the adhesive can bond completely with the surface.



We will be happy to send you on request an up-to-date technical datasheet for whichever adhesive you are using.

- · Weight reduction compared to mechanical mounting
- Possibility to optimize production processes and to reduce production cost (bonding vs. screwing)
- Can compensate unevenness up to a certain degree
- Specially developed for low energy surfaces



Cleavage resistance. Cleavage can occur where forces acting on bonded surfaces are not evenly spread but concentrated along a single line.



Peel adhesion. Peeling force acts on a small amount of adhesive at the edge of the tape and weakens the adhesive bond. At least one adherend is flexible.

Cable Ties and Fixings Cable Tie Mounts



Cable Tie Mounts with high performance adhesive FlexTack-Series FMB for round and angled surfaces

FlexTack cable tie mounts can be successfully applied to a variety of high- and low-energy surfaces such as glass, metals (including painted, varnished or powder-coated surfaces) as well as plastics. FlexTack provides a reliable fixing solution where it is impractical to use screws or bolts. The unique design in combination with the special acrylate adhesive makes professional cable management easy.

Features and benefits

- Flexible Mount for round and angled surfaces
- FMB mounts with homogeneous system of acrylic adhesive
- Allows greater design freedom and offers uniform stress distribution along with weight reduction
- Adhesive with high cohesive strength combined with good
 weathering resistance
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off
- Temperature resistance up to +105 °C
- 4-way entry for cable tie for quicker and more flexible installation
- FMB4APT-I is also suitable for high energy surfaces like metal or glass





Flexible Adhesive Mount FMB4APT-I (plan view)



Flexible Adhesive Mount FMB4APT-I (side view)



Flexible cable tie mount (FlexTack) in a concave application.



FlexTack



Flexible Adhesive Mount FMB4APT-I (down angled, side view)

Flexible Adhesive Mount FMB4APT-I (convex, side view)



Flexible Adhesive Mount FMB4APT-I (up angled, side view)

Flexible Adhesive Mount FMB4APT-I (concave, side view)

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Strap Width max. (G) | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|-----------|--------------|---------------|---------------|----------------------------|----------|------------|---------------|---------------|-------------|
| | 28.0 | 28.0 | 6.3 | 5.4 | PA66HS | Black (BK) | mod. Acrylate | 100 pcs. | 151-01527 |
| FMB4APT-I | 28.0 | 28.0 | 6.3 | 5.4 | PA66HS | White (WH) | mod. Acrylate | 100 pcs. | 151-01528 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable Tie Mounts with high perfomance adhesive SolidTack-Series QM

Q-mounts are ideally suited for holding our innovative Q-ties in place. They would perfectly fit to all applications where a reliable and durable fixation is required. With its SolidTack adhesive Q-mounts offer an innovative fixing solution especially for low energy surfaces or if drilling a hole is not possible. Suitable for a wide range of applications on varnished or plastic or metal surfaces in many areas like electrical cabinet, railway, aerospace, automotive and agriculture machinery.

Features and benefits

- Q-mounts with homogeneous system of acrylic adhesive
- · Perfect for combination with Q-ties
- · Very good initial adhesion, increases with time
- Adhesive with high cohesive strength combined with good weathering resistance
- Innovative fixing solution for high and low energy surfaces
- · Q-Mount base locks Q-tie in vertical position, means the hands are free to apply cables



Mounting bases Q-Mount.



Please find more Q-Series products for your system solution on page 137, 147 and 492.



Q-Mount (side view)

Q-Mount (plan view)

For more information on the types ī of adhesive please see page 134.

Material specification Ð please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|--------------|--------------|---------------|---------------|----------------|----------------------------|----------|--------------|---------------|---------------|-------------|
| QM20APT-I | 20.0 | 20.0 | 3.7 | 3.1 | 4.0 | PA66 | Black (BK) | mod. Acrylate | 100 pcs. | 151-01592 |
| QIVIZUAP I-I | 20.0 | 20.0 | 3.7 | 3.1 | 4.0 | PA66 | Natural (NA) | mod. Acrylate | 100 pcs. | 151-01591 |
| | 30.0 | 30.0 | 4.5 | 4.1 | 5.1 | PA66 | Black (BK) | mod. Acrylate | 100 pcs. | 151-01594 |
| QM30APT-I | 30.0 | 30.0 | 4.5 | 4.1 | 5.1 | PA66 | Natural (NA) | mod. Acrylate | 100 pcs. | 151-01593 |
| OM40APT-I | 40.0 | 40.0 | 5.5 | 4.1 | 8.4 | PA66 | Black (BK) | mod. Acrylate | 50 pcs. | 151-01596 |
| QIVI40AP1-I | 40.0 | 40.0 | 5.5 | 4.1 | 8.4 | PA66 | Natural (NA) | mod. Acrylate | 50 pcs. | 151-01595 |

Cable Tie Mounts Q-Series

Q-mounts are ideally suited for holding our innovative Q-ties in place. They would perfectly fit to all applications where a reliable and durable fixation is required. Self adhesive versions of our Q-Mounts are suitable for applications where using screws, nuts, bolts or drilling holes to fix cables is problematic, or not the first choice.

Features and benefits

- · Screwable or self adhesive versions
- · Perfect for combination with Q-ties
- · 4-way entry for cable ties
- · Adhesive with high pull-off force
- · Locks cable tie in vertical position, means the hands are free to apply cables





Q-ties can be used for both temporary and final cable installation.



Q-Series

Q-Mount Series QMA, self adhesive, screwable

| TYPE | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|---------|--------------|---------------|---------------|----------------|-------------------------|----------|--------------|----------------------|---------------|-------------|
| OM20A | 20.0 | 20.0 | 3.7 | 3.1 | 4.0 | PA66 | Black (BK) | Synthetic rubber T60 | 100 pcs. | 151-10914 |
| QIVIZUA | 20.0 | 20.0 | 3.7 | 3.1 | 4.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 100 pcs. | 151-10904 |
| 011204 | 30.0 | 30.0 | 4.5 | 4.1 | 5.1 | PA66 | Black (BK) | Synthetic rubber T60 | 100 pcs. | 151-10915 |
| QM30A | 30.0 | 30.0 | 4.5 | 4.1 | 5.1 | PA66 | Natural (NA) | Synthetic rubber T60 | 100 pcs. | 151-10905 |
| 01400 | 40.0 | 40.0 | 5.5 | 4.1 | 8.4 | PA66 | Black (BK) | Synthetic rubber T60 | 50 pcs. | 151-10916 |
| QM40A | 40.0 | 40.0 | 5.5 | 4.1 | 8.4 | PA66 | Natural (NA) | Synthetic rubber T60 | 50 pcs. | 151-10906 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Q-Mount Series QM, screwable

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|--------|--------------|---------------|---------------|----------------|-------------------------|----------|--------------|---------------|-------------|
| QM20 | 20.0 | 20.0 | 3.7 | 3.1 | 4.0 | PA66 | Natural (NA) | 100 pcs. | 151-10901 |
| QIVIZU | 20.0 | 20.0 | 3.7 | 3.1 | 4.0 | PA66 | Black (BK) | 100 pcs. | 151-10911 |
| 01420 | 30.0 | 30.0 | 4.5 | 4.1 | 5.1 | PA66 | Natural (NA) | 100 pcs. | 151-10902 |
| QM30 | 30.0 | 30.0 | 4.5 | 4.1 | 5.1 | PA66 | Black (BK) | 100 pcs. | 151-10912 |
| OM40 | 40.0 | 40.0 | 5.5 | 4.1 | 8.4 | PA66 | Natural (NA) | 50 pcs. | 151-10903 |
| QIVI40 | 40.0 | 40.0 | 5.5 | 4.1 | 8.4 | PA66 | Black (BK) | 50 pcs. | 151-10913 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.





Cable Tie Mounts with high perfomance adhesive SolidTack-Series MB

SolidTack MB Series mounts do have a square design and are fairly common in areas like electrical cabinet, railway, aerospace, automotive and agriculture machinery. The premium self-adhesive bonds well on high and low-energy surfaces like plastics, metal, varnish or paint and is suitable for a wide range of applications.

Features and benefits

- MB mounts with homogeneous system of acrylic adhesive
- Very good initial adhesion, increases with time
- · Adhesive with high cohesive strength combined with good weathering resistance
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off



Material specification please see page 26.



MB3-MB5 (side view)

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Cable Tie Mount MB2A (plan view)



SolidTack products work on varnished and powder coated surfaces.



One Step to the Web!

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Fixing Hole Centres (F) | Strap Width max. (G) | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|-------------|--------------|---------------|---------------|----------------|----------------------------|-------------------------|----------|------------|---------------|---------------|-------------|
| MB2APT-I | 13.0 | 13.0 | 4.1 | - | - | 2.7 | PA66 | Black (BK) | mod. Acrylate | 100 pcs. | 151-01556 |
| | 19.0 | 19.0 | 3.8 | 3.1 | 13.2 | 4.4 | PA66 | Black (BK) | mod. Acrylate | 100 pcs. | 151-01557 |
| MB3APT-I | 19.0 | 19.0 | 3.8 | 3.1 | 13.2 | 4.4 | PA66 | White (WH) | mod. Acrylate | 100 pcs. | 151-01558 |
| MB4APT-I | 28.0 | 28.0 | 4.7 | 4.0 | 20.2 | 5.6 | PA66 | Black (BK) | mod. Acrylate | 100 pcs. | 151-01559 |
| IVIB4AP I-I | 28.0 | 28.0 | 4.7 | 4.0 | 20.2 | 5.6 | PA66 | White (WH) | mod. Acrylate | 100 pcs. | 151-01560 |
| MB5APT-I | 38.0 | 38.0 | 6.3 | 4.7 | 25.3 | 10.0 | PA66 | Black (BK) | mod. Acrylate | 100 pcs. | 151-01561 |

Self Adhesive, Screw Fixing Cable Tie Mounts

Where speed, simplicity and a firm fixing base are required these self adhesive clips are ideal. Particularly suitable for use in control cabinets, telecoms equipment or domestic appliances where the use of holes, screws, or nuts and bolts is impractical or undesirable.

Features and benefits

- Screwable or self-adhesive versions
- · Simple to install with a screw or bolt
- · Excellent security, particularly in areas of high vibration
- · Maximum surface area with adhesive to achieve high pull-off force
- 4-way entry for cable tie for quicker and more flexible installation

MB-Series square design, screwable



(side view)

MB3-MB5 (plan view)



MB-Series Mounts with square design / screwable, self adhesive.

| Ð | For |
|---|------|
| | of a |

more information on the types adhesive please see page 134.

| TVDE | Width | Length | Height | Fixing Hole | Hole Ø | Strap Width | | | Pack | |
|------|-------|--------|--------|-------------|--------|-------------|----------|------------|----------|-------------|
| TYPE | (W) | (L) | (H) | Centres (F) | (FH) | max. (G) | Material | Colour | Cont. | Article-No. |
| MB3 | 19.0 | 19.0 | 3.8 | 13.2 | 3.1 | 4.1 | PA66 | White (WH) | 100 pcs. | 151-28359 |
| MB4 | 28.0 | 28.0 | 4.7 | 20.0 | 4.0 | 5.4 | PA66 | White (WH) | 100 pcs. | 151-28479 |
| MB5 | 37.7 | 37.7 | 6.2 | 25.3 | 4.8 | 8.9 | PA66 | White (WH) | 100 pcs. | 151-00324 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

MB-Series square design, self adhesive, screwable



FH

Cable Tie Mount MB2A (side and plan view)





Cable Tie Mount MB3A in application

| | Width | Length | Height | Hole Ø | Strap Width | | | | Pack | |
|--------|-------|--------|--------|--------|-------------|----------|--------------|----------------------|----------|-------------|
| TYPE | (W) | (L) | (H) | (FH) | max. (G) | Material | Colour | Adhesive | Cont. | Article-No. |
| MB2A | 13.0 | 13.0 | 4.1 | - | 2.7 | PA66 | Black (BK) | Synthetic rubber T60 | 50 pcs. | 151-01800 |
| IVIDZA | 13.0 | 13.0 | 4.1 | - | 2.7 | PA66 | White (WH) | Synthetic rubber T60 | 100 pcs. | 151-01802 |
| МВЗА | 19.0 | 19.0 | 3.8 | 3.1 | 4.1 | PA66 | Black (BK) | Synthetic rubber T60 | 100 pcs. | 151-28320 |
| WB3A | 19.0 | 19.0 | 3.8 | 3.1 | 4.1 | PA66 | White (WH) | Synthetic rubber T60 | 100 pcs. | 151-28349 |
| MB4A3 | 28.0 | 28.0 | 4.7 | 4.0 | 5.4 | PA66 | Black (BK) | Acrylate | 100 pcs. | 151-28430 |
| MB4A | 28.0 | 28.0 | 4.7 | 4.0 | 5.4 | PA66 | Black (BK) | Synthetic rubber T60 | 100 pcs. | 151-28412 |
| IVID4A | 28.0 | 28.0 | 4.7 | 4.0 | 5.4 | PA66 | White (WH) | Synthetic rubber T60 | 100 pcs. | 151-28469 |
| MB4CA* | 29.0 | 29.0 | 5.7 | 4.2 | 5.4 | PA66 | Natural (NA) | Synthetic rubber T60 | 100 pcs. | 151-28459 |
| MB4CAS | 29.0 | 29.0 | 5.7 | 4.2 | 5.4 | PA66 | Natural (NA) | Synthetic rubber T60 | 100 pcs. | 151-28449 |
| MB5A | 37.7 | 37.7 | 7.1 | 4.8 | 8.9 | PA66 | Black (BK) | Synthetic rubber T50 | 100 pcs. | 151-28602 |
| NCDIN | 37.7 | 37.7 | 7.1 | 4.8 | 8.9 | PA66 | White (WH) | Synthetic rubber T50 | 100 pcs. | 151-28529 |
| MB5A3 | 38.0 | 38.0 | 6.4 | 4.7 | 10.0 | PA66 | Black (BK) | Acrylate | 100 pcs. | 151-28530 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. * Plastic box



For product specific approvals and specifications please refer to the Appendix.



Flat ribbon cable mounts

FKH mounts are designed to retain flat ribbon cables commonly used in information technology applications, in entertainment electronics or for connecting sensors. As each installation scenario is individual, FKH mounts are available in different dimensions and can be supplied as self adhesive and/or screwable versions.

Features and benefits

- One-piece fixing mount for flat ribbon cables
- · Increased mounting area ensures proper bonding
- · Quick and easy installation
- Can be released and re-used easily
- Flat cable is gently fastened due to soft wings



Based on extremely soft wings any flat cable is gently fastened.







W2





Fixing can be realised with M3 screws or acrylic adhesive backing

(front view)

Flat Ribbon Cable Mount (side view)

SolidTack-Series FKH, high performance adhesive

| ТҮРЕ | Width (W) | Width (W2) | Length (L) | Hole Ø (FH) | For Cable Width max. | Material | Colour | Adhesive | Pack Cont. | Article-No. |
|------------|--------------|---------------|---------------|----------------|-------------------------|----------|------------|---------------|---------------|-------------|
| FKH50APT-I | 25.0 | 22.0 | 56.5 | 3.1 | 50.0 | PA66HIR | Black (BK) | mod. Acrylate | 100 pcs. | 151-01562 |
| FKH80APT-I | 25.0 | 22.0 | 86.0 | 3.1 | 80.0 | PA66HIR | Black (BK) | mod. Acrylate | 100 pcs. | 151-01563 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

FKH-Series, self adhesive, screw fixing

| ТҮРЕ | Width (W) | Length (L) | Width (W2) | Hole Ø (FH) | Material | Colour | Adhesive | Article-No. |
|--------|--------------|---------------|---------------|----------------|----------|------------|----------|-------------|
| FKH25A | 25.0 | 31.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | Acrylate | 151-15250 |
| FKH30A | 25.0 | 35.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | Acrylate | 151-15300 |
| FKH50A | 25.0 | 56.5 | 22.0 | 3.1 | PA66HIR | Black (BK) | Acrylate | 151-15500 |
| FKH80A | 25.0 | 86.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | Acrylate | 151-15800 |

All dimensions in mm. Subject to technical changes.

FKH-Series, screw fixing

| ТҮРЕ | Width (W) | Length (L) | Width (W2) | Hole Ø (FH) | Material | Colour | Article-No. |
|-------|--------------|---------------|---------------|----------------|----------|------------|-------------|
| FKH25 | 25.0 | 31.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | 151-16250 |
| FKH30 | 25.0 | 35.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | 151-16300 |
| FKH50 | 25.0 | 56.5 | 22.0 | 3.1 | PA66HIR | Black (BK) | 151-16500 |
| FKH80 | 25.0 | 86.0 | 22.0 | 3.1 | PA66HIR | Black (BK) | 151-16800 |

Cable Ties and Fixings Cable Tie Mounts



Screw Fixing Cable Tie Mounts

These products are designed for simple yet robust installation in a wide variety of applications. TY-Series mounts with rectangled design are particularly used in telecoms equipment, switchgear and control cabinets. With its small and compact design TY3G1 offers an easy and rapid assembly for many different applications.

Features and benefits

- Screwable or self-adhesive versions
- Concave design to support larger diameter cables and bundles
- 2-way mounting base for safe guiding of cables and conduits
- Suitable for applications with minimal space
- · Mounted before cable installation
- Usable with standard cable ties



TY-Series mounts with rectangle design / screwable, self adhesive.





G



TY8G1, TY8G1S (side view)

| | | | | Hole | Fixing Hole | Fixing Hole | Strap Width | | | | |
|-------|-------|--------|--------|------|-------------|-------------|-------------|----------|--------------|----------|-------------|
| | Width | Length | Height | Ø | Centres | Centres | max. | | | Pack | |
| TYPE | (W) | (L) | (H) | (FH) | (F) | (F2) | (G) | Material | Colour | Cont. | Article-No. |
| TY3G1 | 14.0 | 20.0 | 3.7 | 2.2 | 15.0 | - | 4.0 | PA66 | Natural (NA) | 100 pcs. | 151-21319 |
| TY8G1 | 25.0 | 32.0 | 5.5 | 3.2 | 15.0 | 14.0 | 8.0 | PA66 | Natural (NA) | 100 pcs. | 151-21819 |

TY-Series Rectangle Design, screwable

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

TY-Series Rectangle Design, self adhesive, screwable

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Fixing Hole Centres (F) | Fixing Hole Centres (F2) | Strap Width max. (G) | | Colour | Adhesive | Pack Cont. | Article-No. |
|--------|--------------|---------------|---------------|-------------------|-------------------------------|--------------------------------|----------------------------|-------|-----------------|----------|---------------|-------------|
| TY3G1S | 14.0 | 20.0 | 3.7 | 2.2 | 15.0 | - | 4.0 | PA66 | Natural (NA) | Acrylate | 100 pcs. | 151-11319 |
| 115015 | 14.0 | 20.0 | 3.7 | 2.2 | 15.0 | - | 4.0 | PA66W | Black (BK) | Acrylate | 100 pcs. | 151-11310 |
| TY8G1S | 25.0 | 32.0 | 5.5 | 3.2 | 15.0 | 14.0 | 8.0 | PA66 | Natural (NA) | Acrylate | 100 pcs. | 151-11819 |
| 110015 | 25.0 | 32.0 | 5.5 | 3.2 | 15.0 | 14.0 | 8.0 | PA66W | Black (BK) | Acrylate | 100 pcs. | 151-11810 |



Paste Adhesive Mount

PMB5 mount for uneven surfaces

PMB5 pasty mount offers a fixing solution wherever screw fixing is not allowed. Due to a larger diameter the mount can even be installed onto uneven surfaces. PMB5 pasty mount is used in the railway industry as well as in the renewable energy industry. Further applications are in the ship building industry, in the electrical industry and the production of switching cabinets.

Features and benefits

- PMB5 paste adhesive mount for fixings with paste / liquid adhesive
- Mount geometry offers a good form closure with cured adhesive
- Can even be installed onto uneven surfaces due to large diameter
- Can also be applied in combination with hot-melt adhesive, as mount is made of heat resistant PA66





PMB5 Mount (plan view)

PMB5 Mount (front view)



PMB5 mount with paste adhesive.



Material specification please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|------|--------------|---------------|---------------|----------------------------|----------|------------|---------------|-------------|
| PMB5 | 36.0 | 36.0 | 10.7 | 4.8 | PA66HS | Black (BK) | 100 pcs. | 151-00498 |



Mounts with round design, self adhesive

RA-Series

These mounts are ideal for use in applications which are difficult to access or for areas where self adhesive is the only possible fixing method and fixing holes would be unacceptable. The round self adhesive mounts can be used without cable ties. Offering process optimization in industries like automotive, bus and truck, construction vehicles or industrial building.

Features and benefits

- One-piece self adhesive mount for quick and easy installation
- Can be used without cable ties offering process optimization
- Designed to hold wires, cables or hoses
- Different sizes for various bundle diameters available
- Two types of adhesive can be offered



For more information on the types

of adhesive please see page 134.

Self adhesive one piece fixing mounts RA6 (I) and RB5 (r).





RA3-18 Series

RA3-18 Series (plan view)

| (side view) | 10.0 | io series (pio | | | | | | | |
|-------------|--------------|----------------|---------------|---------------|------------------|----------|--------------|----------------------|-------------|
| ТҮРЕ | Width (W) | Width (W2) | Length (L) | Height (H) | Bundle Ø max. | Material | Colour | Adhesive | Article-No. |
| RA3 | 13.0 | 5.0 | 13.0 | 5.0 | 3.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13018 |
| RA6APT-I | 19.0 | 5.0 | 19.0 | 9.0 | 6.0 | PA66 | Natural (NA) | mod. Acrylate | 151-01635 |
| RA6 | 19.0 | 5.0 | 19.0 | 9.0 | 6.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13019 |
| RA9 | 19.0 | 7.5 | 19.0 | 12.5 | 9.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13020 |
| RA13APT-I | 25.0 | 10.0 | 25.0 | 16.5 | 13.0 | PA66 | Natural (NA) | mod. Acrylate | 151-01636 |
| RA13 | 25.0 | 10.0 | 25.0 | 16.5 | 13.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13021 |
| RA18 | 28.5 | 10.0 | 28.5 | 23.0 | 18.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13119 |



Mounts with flat and round design, self adhesive **RB-Series**

RB-Series self adhesive mounts offer greater routing freedom and also reduce the risk of corrosion compared to screw fixing mounts. They are ideally suited for tool-free installation and can be re-opened and reused easily when cables need to be replaced. These mounts can be used without the need for additional cable ties. Offering process optimization in a variety of applications.

Features and benefits

- · Flat design to use in applications with limited space
- · One-piece self adhesive mount for quick and easy installation
- Can be used without cable ties offering process optimization
- Different sizes for various bundle diameters available
- Cost effective with easy application on smooth, clean surfaces



Self adhesive one piece fixing mounts RB20 (I) and RB14 (r).











RB5-Series (side view)

RB8-14 Series (plan view)

W2

w

| ТҮРЕ | Width (W) | Width (W2) | Length (L) | Height (H) | Bundle Ø max. | Material | Colour | Adhesive | Article-No. |
|------|--------------|---------------|---------------|---------------|------------------|-----------|--------------|----------------------|-------------|
| RB5 | 19.0 | 9.7 | 19.0 | 6.0 | 5.0 | PA66 | Black (BK) | Synthetic rubber T60 | 151-14000 |
| КВЭ | 19.0 | 9.7 | 19.0 | 6.0 | 5.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-14059 |
| RB8 | 25.0 | 12.7 | 25.0 | 11.5 | 8.0 | PA66 | Black (BK) | Synthetic rubber T60 | 151-13601 |
| KBO | 25.0 | 12.7 | 25.0 | 11.5 | 8.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-13606 |
| RB20 | 27.0 | 18.0 | 33.0 | 25.0 | 20.0 | PA66HIRHS | Black (BK) | Synthetic rubber T60 | 151-00831 |
| RB14 | 27.4 | 23.0 | 33.2 | 16.0 | 14.0 | PA66 | Black (BK) | Synthetic rubber T60 | 151-00502 |
| | 27.4 | 23.0 | 33.2 | 16.0 | 14.0 | PA66 | Natural (NA) | Synthetic rubber T60 | 151-00505 |



Mounts with flexible flat design

SAC-Series

These clips are ideal for use in applications which are difficult to access, or for areas where a self adhesive solution is the only possible fixing method and holes would be unacceptable. Typical applications include domestic appliances and trailers.

Features and benefits

- Bendable metal tongue for any shape or configuration of wires or cables
- Cost effective with easy application on smooth, clean surfaces





SAC-Series Self Adhesive Clip

SAC-Series in application



Malleable tongue allows for a variety of sizes per clip.



For more information on the types of adhesive please see page 134.

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø max. | Material | Colour | Adhesive | Article-No. |
|------|--------------|---------------|------------------|----------|------------|----------|-------------|
| SAC0 | 15.0 | 20.0 | 3.0 | ST | White (WH) | Acrylate | 151-00033 |
| SAC1 | 20.0 | 30.0 | 4.0 | ST | White (WH) | Acrylate | 151-00100 |
| SAC2 | 25.0 | 35.0 | 8.0 | ST | White (WH) | Acrylate | 151-00200 |
| SAC3 | 31.0 | 43.0 | 12.0 | ST | White (WH) | Acrylate | 151-00300 |
| SAC4 | 38.0 | 51.0 | 16.0 | ST | White (WH) | Acrylate | 151-00400 |

All dimensions in mm. Subject to technical changes.

Туре 130100

Features and benefits

- Self adhesive mount with integrated clamp for holding flat cables
- Manufactured from PVC



130100 Self Adhesive Clip



130100 self adhesive mount for flat cables.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Material | Colour | Adhesive | Article-No. |
|--------|--------------|---------------|---------------|----------|------------|----------|-------------|
| 130100 | 25.0 | 25.0 | 9.1 | PVC | White (WH) | Acrylate | 154-01119 |



Cable Tie Mounts for food industry, detectable

MCMB-Series, screwable

MCMB mounts are ideally suited for holding MCT-Series cable ties in position, even in areas of high vibration such as food manufacturing equipment and automated packaging machines.

Features and benefits

- Distinctive blue colour for easy visual detection
- Simple to install with a screw or bolt
- Provides a secure fixing solution for routing cables, tubes and hoses
- 4-way entry for the cable tie leads to a quicker and more flexible installation
- Magnetic and X-Ray detectable perfect for use with food and pharmaceutical grade detection equipment
- Total metal dispersion provides consistent detectability, even for small cut-off pieces
- · Greatly reduced risk of contamination within food products
- · Can support quality assurance in the production of food stuffs, for example HACCP



Detectable fixing solution containing of MCMB mount and MCT cable tie.



One Step to the Web!

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Can support quality assurance

in the production of food stuffs, for example HACCP.

The MCMB mount can ideally be combined Ê with MCT cable ties on page 65.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Fixing Hole Centres (F) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|-------|--------------|---------------|---------------|-------------------------------|----------------|----------------------------|----------|-----------|---------------|-------------|
| MCMB3 | 19.0 | 19.0 | 3.8 | 13.2 | 3.1 | 3.5 | PA66MP | Blue (BU) | 100 pcs. | 151-01169 |
| MCMB4 | 28.0 | 28.0 | 4.7 | 20.0 | 4.0 | 4.7 | PA66MP | Blue (BU) | 100 pcs. | 151-01170 |

G

F

L

FH

MCMB Mount (side and plan view)

Cable Ties and Fixings Cable Tie Mounts



Screw Fixing Cable Tie Mounts CTQM for limited space

Q-Mount Series CTQM

CTQM mounts are ideally suited for holding our innovative Q-ties in place. They would perfectly fit to all applications where a reliable and durable fixation is required and where space is limited.

Features and benefits

- 2-way mounting base for safe guiding of cables and conduits
- For cable ties up to 5 mm width
- Uses screw with countersunk head (max. ø of head: 8.0 mm)
- Perfect for combination with Q-ties
- Pre-assembly feature in combination with cable tie
- · Holds the cable tie in vertical mounting position



Q-Mount, CTQM 2-way entry, screwable.



Q-Series





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Please find more Q-Series products for your system solution on page 56, 137 and 492.

Material specification

please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|-------|--------------|---------------|---------------|----------------|----------------------------|----------|--------------|---------------|-------------|
| стом5 | 9.5 | 21.0 | 6.7 | 4.5 | 5.0 | PA66 | Natural (NA) | 100 pcs. | 151-10920 |
| CIQND | 9.5 | 21.0 | 6.7 | 4.5 | 5.0 | PA66 | Black (BK) | 100 pcs. | 151-10930 |

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Cable Tie Mounts with curved design

Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from agriculture to truck manufacture. They offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 8.3 mm width.

Features and benefits

- Curved design for additional cable support
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration

W

· Mounts are available in various sizes and materials



Cable Tie Mounts KR6G5, KR8G5 and CTM.

ties on page 51.





KR6G5, KR8G5 and CTM (side view)

KR6G5, KR8G5 and CTM (plan view)



Can support quality assurance in the production of food stuffs, for example HACCP.

The KR-E/TFE mounts can ideally

be combined with the E/TFE-cable

| ТҮРЕ | Width (W) | Length | Height | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|-----------|--------------|--------|--------|----------------|----------------------------|----------|--------------|---------------|-------------|
| TIFE | . , | (L) | (H) | . , | | | | | |
| стмо | 9.4 | 14.7 | 6.9 | 3.8 | 5.0 | PA66 | Black (BK) | 100 pcs. | 151-30300 |
| | 9.4 | 14.7 | 6.9 | 3.8 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-30303 |
| СТМ1 | 9.4 | 14.7 | 6.9 | 4.8 | 5.0 | PA66 | Black (BK) | 100 pcs. | 151-30400 |
| CIMI | 9.4 | 14.7 | 6.9 | 4.8 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-30404 |
| KR6G5 | 11.8 | 17.8 | 8.8 | 4.5 | 6.4 | E/TFE | Blue (BU) | 100 pcs. | 151-00653 |
| MCKR6G5 | 11.8 | 17.8 | 8.8 | 4.5 | 6.4 | PA66MP+ | Blue (BU) | 100 pcs. | 151-00950 |
| KR6G5 | 12.0 | 18.0 | 9.0 | 4.5 | 6.0 | PA66 | Natural (NA) | 100 pcs. | 151-24619 |
| KROGS | 12.0 | 18.0 | 9.0 | 4.5 | 6.0 | PA66W | Black (BK) | 100 pcs. | 151-24660 |
| MCKR8G5-5 | 14.3 | 24.8 | 12.0 | 5.2 | 8.3 | PA66MP+ | Blue (BU) | 100 pcs. | 151-01020 |
| | 14.3 | 24.8 | 12.1 | 6.5 | 8.3 | E/TFE | Blue (BU) | 100 pcs. | 151-00654 |
| KR8G5 | 14.5 | 25.0 | 12.0 | 6.5 | 8.0 | PA66 | Natural (NA) | 100 pcs. | 151-24819 |
| | 14.5 | 25.0 | 12.0 | 6.5 | 8.0 | PA66HS | Black (BK) | 100 pcs. | 151-24850 |
| СТМ2 | 15.5 | 21.8 | 9.4 | 4.6 | 7.9 | PA66 | Black (BK) | 100 pcs. | 151-30500 |
| CTMZ | 15.5 | 21.8 | 9.4 | 4.6 | 7.9 | PA66 | White (WH) | 100 pcs. | 151-30504 |
| CTM2 | 15.5 | 21.8 | 9.4 | 5.1 | 7.9 | PA66 | Black (BK) | 100 pcs. | 151-30600 |
| СТМЗ | 15.5 | 21.8 | 9.4 | 5.1 | 7.9 | PA66 | White (WH) | 100 pcs. | 151-30605 |
| CTN44 | 15.8 | 21.8 | 9.4 | 6.4 | 7.9 | PA66 | Black (BK) | 100 pcs. | 151-30700 |
| CTM4 | 15.8 | 21.8 | 9.4 | 6.4 | 7.9 | PA66 | White (WH) | 100 pcs. | 151-30703 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.





CTAM-Series for applications where space is limited

Each of these products offers particular benefits, but all are designed for simple yet robust installation in a wide variety of applications. Particularly used in telecoms equipment, switchgear and control cabinets these cable tie mounts are also used within the aerospace and railway industry.

Features and benefits

• Suitable for applications with minimal space

tie on page 69.

- · Mounted before cable installation and in line with cable
- CTAM has 4-way entry design for use in line or at 90° angle to cable run

The CTAM mounts made of PEEK are

the ideal complement for the PEEK

FH

• CTAM mounts are available in different sizes and materials



CTAM mounts for applications with limited space.



The CTAM mounts made of PA66MP+ are the ideal complement for MCTS ties on page 66.



Can support quality assurance in the production of food stuffs, for example HACCP.



CTAM-Series (plan view)

CTAM-Series (side view)



CTAM-Series in application



One Step to the Web!

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|---------|--------------|---------------|---------------|----------------|----------------------------|----------|-------------|---------------|-------------|
| CTAM1 | 10.2 | 20.4 | 5.1 | 4.3 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-31109 |
| CTAM2 | 10.2 | 20.4 | 5.1 | 5.2 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-31203 |
| CTAM1 | 10.2 | 20.5 | 5.5 | 4.3 | 5.0 | PEEK | Beige (BGE) | 100 pcs. | 151-00757 |
| CTAM2 | 10.2 | 20.5 | 5.5 | 5.2 | 5.0 | PEEK | Beige (BGE) | 100 pcs. | 151-00758 |
| MCCTAM1 | 10.3 | 20.7 | 5.1 | 4.3 | 5.0 | PA66MP+ | Blue (BU) | 100 pcs. | 151-00997 |

LKC- and NY-Series with overlapping curved design

Designed specifically for holding heavier cable bundles, these mounting bases can be used in many industries from agriculture to truck manufacturing. They offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 13 mm width.

Features and benefits

- Curved design for additional cable support
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration





Cable Tie Mounts LKC Series.





NY3256 (side view)

NY3256 (plan view)



| ТҮРЕ | Drawing | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|--------|---------|--------------|---------------|---------------|----------------|----------------------------|----------|--------------|---------------|-------------|
| LKC | | 17.0 | 25.0 | 13.5 | 5.5 | 8.0 | PA66 | Black (BK) | 100 pcs. | 151-27010 |
| LKC | | 17.0 | 25.0 | 13.5 | 5.5 | 8.0 | PA66 | Natural (NA) | 100 pcs. | 151-27019 |
| | ~ ~ | 19.0 | 40.0 | 16.0 | 6.0 | 13.0 | PA66W | Black (BK) | 100 pcs. | 151-01683 |
| LKCSF1 | | 19.0 | 40.0 | 16.8 | 6.0 | 13.0 | PA66 | Natural (NA) | 100 pcs. | 151-27219 |
| | | 19.0 | 40.0 | 16.8 | 6.0 | 13.0 | PA66 | Black (BK) | 100 pcs. | 151-27202 |
| NY3256 | | 12.0 | 13.5 | 7.8 | 3.1 | 8.0 | PA66 | Natural (NA) | 1,000 pcs. | 151-25219 |



These cable tie mounts are very small in their overall size. They are designed for simple yet robust installation particulary in areas with high vibrations and/or limited space. They are a common fixing method for telecoms equipment, switchgear and control cabinets.

Features and benefits

- Small overall size for areas with limited mounting space
- · Simple to install with a screw, bolt or rivet
- · Excellent security, particularly in areas of high vibration
- · Single hole fixing with two-way entry for cable tie



TY- (I) and MB-Series (r) with curved design, screwable.

MB-Series Curved Design, screwable





L



MB1, MB2 Mounts in application

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|------|--------------|---------------|---------------|----------------|----------------------------|----------|--------------|---------------|-------------|
| MB1 | 8.0 | 12.5 | 3.5 | 2.9 | 2.6 | PA66 | Natural (NA) | 100 pcs. | 151-28119 |
| MDD | 12.5 | 20.5 | 3.3 | 5.0 | 5.0 | PA66 | Black (BK) | 100 pcs. | 151-28210 |
| MB2 | 12.5 | 20.5 | 3.3 | 5.0 | 5.0 | PA66 | White (WH) | 100 pcs. | 151-28219 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

TY-Series Curved Design, screwable



TY3, TY8 Mounts (side view)



TY3, TY8 Mounts in application

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|-------|--------------|---------------|---------------|----------------|----------------------------|----------|--------------|---------------|-------------|
| TY3F1 | 8.0 | 19.0 | 5.7 | 3.5 | 5.0 | PA66 | Natural (NA) | 1,000 pcs. | 151-02156 |
| TY8F1 | 10.0 | 22.5 | 7.2 | 4.5 | 8.0 | PA66 | Natural (NA) | 1,000 pcs. | 151-02157 |



LKM / CL / FH with curved design for sideways fixing

In areas with limited space these mounting bases allow the cable to be offset from the fixing hole, and can be installed in the equipment prior to the cable installation. A major cost saving can be made using these products as they will allow the use of many different sizes of standard cable ties without the need to stock a wide range of specific fixing ties.

Features and benefits

- Small overall size for areas with limited mounting space
- Screwable mounts for fixing cable sideways
- Ideal for securing large, heavier bundles
- Suitable for cable ties up to 8 mm width



LKM, CL8 and FH cable tie mounts for applications with limited space.



FH cable tie mounts

(plan and side view)



LKM, CL8 cable tie mounts

(plan and side view)



CL8 cable tie mount in application

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Height (H2) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|------|--------------|---------------|---------------|----------------|----------------|----------------------------|----------|--------------|---------------|-------------|
| FH18 | 7.1 | 13.3 | 4.0 | - | 3.7 | 2.5 | PA66 | Natural (NA) | 500 pcs. | 151-61119 |
| FH30 | 9.5 | 17.9 | 4.7 | - | 5.5 | 3.5 | PA66 | Natural (NA) | 500 pcs. | 151-61319 |
| FH50 | 11.3 | 22.2 | 6.2 | - | 7.1 | 4.6 | PA66 | Natural (NA) | 500 pcs. | 151-61519 |
| | 12.0 | 27.0 | 16.0 | 5.0 | 6.0 | 7.6 | PA66 | Black (BK) | 100 pcs. | 151-26301 |
| LKM | 12.0 | 27.0 | 16.0 | 5.0 | 6.0 | 7.6 | PA66 | Natural (NA) | 100 pcs. | 151-26304 |
| CL8 | 12.5 | 27.3 | 16.0 | 5.0 | 6.5 | 8.0 | PA66 | Natural (NA) | 100 pcs. | 151-26819 |
| | 12.5 | 27.3 | 16.0 | 5.0 | 6.5 | 8.0 | PA66W | Black (BK) | 100 pcs. | 151-26860 |

Cable Ties and Fixings Cable Tie Mounts



Fixing Base

LOK02

Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from agriculture to truck manufacture. LOK cable tie mounts offer a very secure fixing and can be used in combination with cable ties up to 9 mm width.

Features and benefits

- Special design of fixing base gives additional support to cables
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration



LOK02 fixing base application.





LOK02 Fixing Base

LOK02 Fixing Base (front view)



| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Article-No. |
|-------|--------------|---------------|---------------|----------------|----------------------------|----------|------------|-------------|
| LOK02 | 14.0 | 21.0 | 18.0 | 5.1 | 9.0 | PA6HIR | Black (BK) | 151-80210 |

Clamps with elastical loop

Cradle clamp

Simple and versatile method of bundling cables. These clamps consist of two parts. The clamping base for mounting onto a panel and the elastical loop.

Features and benefits

- 2-piece fixing part consists of clamp and retaining ring
- Suitable for pre-assembly and prototyping
- Useful for applications requiring addition or removal of cables
- Simply stretch loop over clip for simple and quick cable containment



2-Piece fixing cradle clamp.





Cradle Clip (front view)

Cradle Clip (plan view)

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Radius (R) | Hole Ø (FH) | Material | Colour | Article-No. |
|------|--------------|---------------|---------------|---------------|----------------|----------|------------|-------------|
| C1 | 12.7 | 22.0 | 14.0 | 6.3 | 4.8 | PA6HIR | Black (BK) | 201-10010 |
| C2 | 12.7 | 35.0 | 18.0 | 11.0 | 4.8 | PA6HIR | Black (BK) | 201-10020 |
| C3 | 12.7 | 48.0 | 25.0 | 17.5 | 4.8 | PA6HIR | Black (BK) | 201-10030 |

All dimensions in mm. Subject to technical changes.



Retaining Ring R1 - 3

| ТҮРЕ | Width (W) | Length (L) | Length (L2) | Height (H) | Material | Colour | Article-No. |
|------|--------------|---------------|----------------|---------------|----------|------------|-------------|
| R1 | 23.8 | 16.0 | 22.0 | 3.2 | PVC | Black (BK) | 201-20010 |
| R2 | 23.8 | 22.0 | 29.0 | 3.2 | PVC | Black (BK) | 201-20020 |
| R3 | 23.8 | 33.0 | 39.0 | 3.2 | PVC | Black (BK) | 201-20030 |

Cable Ties and Fixings Cable Tie Mounts



Strain Relief Clips

Klam-Klip (KK)

Strain relief clips for gripping cables up to 8.5 mm bundle diameter. Strain relief clip is simply attached to mounting surface with an M4 fixing screw.

Features and benefits

- Simple 1-screw fixing to guide and secure leads
- Two halves of the clip are linked to ensure no loss of parts during re-wiring
- Anti-rotation pin prevents leads from twisting





Klam-Klip (side view)

Klam-Klip (plan view)



Strain relief Klam-Klip in application.



Material specification please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Height (H2) | Hole Ø (FH) | Bundle Ø min. | Bundle Ø max. | Material | Colour | Article-No. |
|------|--------------|---------------|---------------|----------------|----------------|------------------|------------------|----------|------------|-------------|
| KK1 | 8.8 | 22.0 | 14.0 | 3.5 | 5.0 | 4.5 | 5.7 | PA6HIR | Black (BK) | 234-10100 |
| KK2 | 8.8 | 22.0 | 14.0 | 3.5 | 5.0 | 5.5 | 6.7 | PA6HIR | Black (BK) | 234-10200 |
| ККЗ | 8.8 | 22.0 | 14.0 | 3.5 | 5.0 | 6.5 | 7.7 | PA6HIR | Black (BK) | 234-10300 |
| KK4 | 8.8 | 22.0 | 14.0 | 3.5 | 5.0 | 7.5 | 8.5 | PA6HIR | Black (BK) | 234-10400 |

All dimensions in mm. Subject to technical changes.

155



Harness Clip for Heavy Duty Applications, for **Screws or threaded Bolts**

These heavy duty mounts (HDM) have been primarily designed for use in the automotive and truck industry. Nowadays they can be found in a variety of applications requiring heavy duty mounting in areas like the railway, defence and/or argriculture industry.

Features and benefits

- Design offers secure alignment to the bundle
- Possible replacement of cushion clamps and/or metal clamps
- Eliminates the needs for multiple sized fix diameter clamps
- For heavy duty cable ties up to 12.7 mm width
- High tightening torque through metal bushing
- Easy maintenance of bundle by simply changing the cable tie



Heavy Duty Mounts HDM-Series, Patent Number US5820083.



Standard Torque Mounts

| ТҮРЕ | Drawing | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|--------|---------|--------------|---------------|---------------|----------------|----------------------------|------------|------------|---------------|-------------|
| HDM25 | | 19.0 | 35.8 | 16.7 | 6.2 | 12.7 | PA66HIR | Black (BK) | 100 pcs. | 151-00437 |
| HDM19 | | 19.3 | 36.3 | 16.7 | 4.7 | 12.7 | PA66HIRHS | Black (BK) | 100 pcs. | 151-00134 |
| HDM312 | | 19.3 | 36.3 | 16.7 | 7.8 | 12.7 | PA66HIRHSW | Black (BK) | 100 pcs. | 151-00439 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Medium Torque Mounts

| ТҮРЕ | Drawing | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|--------|---------|--------------|---------------|---------------|----------------|----------------------------|------------|------------|---------------|-------------|
| HDM321 | | 24.0 | 46.0 | 20.7 | 8.31 | 12.7 | PA66HSW | Black (BK) | 500 pcs. | 151-07100 |
| HDM401 | | 24.0 | 46.0 | 20.7 | 9.5 | 12.7 | PA66HIRHSW | Black (BK) | 100 | 151-00442 |
| HDM501 | | 24.0 | 46.0 | 20.7 | 12.7 | 12.7 | PA66HIRHS | Black (BK) | 500 pcs. | 151-07500 |

High Torque Mounts (metal bushing)

| ТҮРЕ | Drawing | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|----------|---------|--------------|---------------|---------------|----------------|----------------------------|-------------|------------|---------------|-------------|
| HDM400BR | | 25.0 | 47.0 | 20.7 | 10,29 | 12.7 | PA66HIRHSUV | Black (BK) | 500 | 151-01224 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Two Way Saddle Mount for heavy duty applications, for parallel separation

Heavy duty saddle mounts can be installed between two bundles to separate them and prevent chafing and wear. Fastened to a frame rail or mounting bracket, the special profile on the saddle mount provides a tight circumferential loop on large and small bundles. The saddle mount is an ideal assistant in many applications within the railway, truck and agricultural vehicle construction as well as in the ship building industry.

Features and benefits

- For parallel routing of different bundles to avoid wear and chafing
- · Offers secure alignment to the bundle
- · Can be used in combination with heavy duty cable ties
- Easy maintenance of bundle by simply changing the cable tie
- · Made from impact modified, heat stabilized material





This saddle mount is installed between two bundles to separate them and prevent chafing and wear.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Bundle Ø max. | Material | Colour | Pack Cont. | Article-No. |
|--------|--------------|---------------|---------------|----------------|----------------------------|------------------|------------|------------|---------------|-------------|
| S2CM25 | 30.0 | 45.0 | 23.0 | 6.0 | 12.5 | 89.0 | PA66HIRHS | Grey (GY) | 500 pcs. | 151-29400 |
| S2HM25 | 30.0 | 45.0 | 23.0 | 6.0 | 13.5 | 89.0 | PA66HIRHSW | Black (BK) | 500 pcs. | 151-29403 |



Harness Clip for Heavy Duty Applications, for Screws or threaded Bolts for Edges

This axial oval mount stands off bundles from frame rails and cross members to prevent them from rubbing and chafing. They can be perfectly used in combination with heavy duty cable ties up to 12.7 mm width ideal to securely fix cables and wires in the railway and shipbuilding industry as well as in truck and agricultural vehicle construction.

Features and benefits

- Guides bundles securely above sharp edges
- For threaded bolts or screws
- · Can be used in combination with heavy duty cable ties
- For cable ties up to 12.7 mm width



Axial oval mounts stand off bundles from frame rails and cross members to prevent them from rubbing and chafing.





SAM83

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|--------|--------------|---------------|---------------|----------------|----------------------------|------------|------------|---------------|-------------|
| SAM83 | 26.0 | 34.0 | 35.0 | 8.0 | 12.7 | PA66HIRHS | Grey (GY) | 500 pcs. | 151-29600 |
| SAOM82 | 26.0 | 34.3 | 35.0 | 8.0 | 12.7 | PA66HIRHSW | Black (BK) | 500 pcs. | 151-29701 |

Cable Ties and Fixings Cable Tie Mounts



Heavy Duty Mounts for 3-way routing

Primarily designed for use in the automotive/truck industry, these parts can be used in a wide variety of industries and applications where bundles need mounting.

These heavy duty harness clips helps to fix and secure cable, lines and hydraulic lines in truck, agriculture and railway vehicle construction, as well as in ship building.

Features and benefits

- For parallel routing of bundles
- Secure alignment to the bundle due to H-design
- Easy maintenance of bundle by simply changing cable tie
- Cable tie head can be moved after bundling



S3CBM8 in combination with our X-Series.

S3CBM8





Suitable for external cylindrical hexagonal bolts M8

Exemplary illustration of a possible 3-way transfer



S3SB15CBM8 and S3CBM8.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Bundle Ø max. | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|--------|--------------|---------------|---------------|------------------|----------------------------|----------|------------|---------------|-------------|
| S3CBM8 | 46.0 | 70.0 | 18.6 | 100.0 | 9.0 | PA6GF30 | Black (BK) | 500 pcs. | 151-01040 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

S3SB15CBM8





Suitable for welding studs (M8 internal bore & outer diameter 15 mm)

Exemplary illustration of a possible 3-way transfer

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Bundle Ø max. | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|------------|--------------|---------------|---------------|------------------|----------------------------|----------|------------|---------------|-------------|
| S3SB15CBM8 | 46.0 | 70.0 | 18.6 | 100.0 | 9.0 | PA6GF30 | Black (BK) | 500 pcs. | 151-01010 |



Stainless Steel 316 mounts

Suitable for the secure fixing of cables, tubing, conduits and pipes within the most arduous of environments. Providing a complete fastening and fixing solution when used in conjunction with stainless steel ties up to 10.0 mm width. SSPC metal cable tie mounts are ideal for use within shipbuilding, oil and gas (offshore), industrial machinery and vehicles, food and beverage, power, renewable energy or process industries.

Features and benefits

- · 2-way fixing for metal cable ties
- High performance stainless steel 316 material
- Heavy duty design
- Robust and durable solution
- Resistant to a range of chemicals in challenging environments
- · Quick and easy to install
- · Safe and secure solution for cables, tubing, conduits and pipes



One Step to the Web!



SSPC Series (plan view)

SSPC-Series (side view)

Stainless Steel P-Mount SSPC for use in arduous environments.

The SSPC-Mounts can ideally be combined with the MBT cable ties on page 86–92 and with the MST and MLT cable ties on page 93, 94.

Can support quality assurance in the production of food stuffs, for example HACCP.

Material specification please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | Material | Colour | Pack Cont. | Article-No. |
|-------|--------------|---------------|---------------|----------------|----------------------------|----------|------------|---------------|-------------|
| SSPC4 | 10.2 | 23.0 | 4.5 | 4.2 | 10.0 | SS316 | Metal (ML) | 100 pcs. | 151-00837 |
| SSPC5 | 10.2 | 23.0 | 4.5 | 5.3 | 10.0 | SS316 | Metal (ML) | 100 pcs. | 151-00838 |
| SSPC6 | 10.2 | 23.0 | 4.5 | 6.3 | 10.0 | SS316 | Metal (ML) | 100 pcs. | 151-00839 |

All dimensions in mm. Subject to technical changes

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Cable Ties and Fixings Cable Tie Mounts



Ratchet P-Clamp

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both in- and outdoors. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

Features and benefits

- One-piece ratchet closure design allows for easy installation during preor final assembly
- Multiple configurations handle a wide range of diameters and applications, reducing part inventory
- Clamp interior is designed to guide and center bundle to reduce pinching
- Easy release feature allows for quick adjustments and maintenance
- Impact modified, heat and UV stabilized PA66 provides long-term durability, in- and outdoors
- Steel mounting plate tolerates high torque mounting and is treated to resist chemicals and salt spray





Ratchet P-Clamp (plan view)

Ratchet P-Clamp (side view)

For bundle diameters from 6.2 mm to 13.7 mm

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | Hole Ø (FH) | Fixing Hole Centres (F) | Variant | Material | Colour | Article-No. |
|------------|--------------|---------------|---------------------|---------------------|-------------------|-------------------------------|-------------|---------------------|------------|-------------|
| RCA90SM6 | 34.9 | 101.9 | 6.2 | 13.7 | M6 | 24.9 | 90° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01643 |
| RCA180SM6 | 34.9 | 116.2 | 6.2 | 13.7 | M6 | 50.5 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01637 |
| RCA180SM8 | 34.9 | 116.2 | 6.2 | 13.7 | M8 | 50.5 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01416 |
| RCA1805M10 | 34.9 | 116.2 | 6.2 | 13.7 | M10 | 50.5 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01417 |
| RCA1805M12 | 34.9 | 116.2 | 6.2 | 13.7 | M12 | 50.5 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01418 |
| RCA90LM6 | 34.9 | 129.9 | 6.2 | 13.7 | M6 | 24.9 | 90° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01644 |
| RCA90LM8 | 34.9 | 129.9 | 6.2 | 13.7 | M8 | 24.9 | 90° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01437 |
| RCA180MM6 | 34.9 | 138.2 | 6.2 | 13.7 | M6 | 72.5 | 180° Medium | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01638 |
| RCA180MM8 | 34.9 | 138.2 | 6.2 | 13.7 | M8 | 72.5 | 180° Medium | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01419 |
| RCA180LM6 | 34.9 | 167.2 | 6.2 | 13.7 | M6 | 101.5 | 180° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01639 |



Ratchet P-Clamps in multiple configurations to handle a wide range of diameters and applications.



Ratchet P-Clamp

For bundle diameters from 12.7 mm to 19.5 mm

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | Hole Ø (FH) | Fixing Hole Centres (F) | Variant | Material | Colour | Article-No. |
|------------|--------------|---------------|---------------------|---------------------|-------------------|-------------------------------|-------------|---------------------|------------|-------------|
| RCB90SM6 | 34.9 | 101.9 | 12.7 | 19.5 | M6 | 26.7 | 90° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01651 |
| RCB90SM8 | 34.9 | 101.9 | 12.7 | 19.5 | M8 | 26.7 | 90° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01457 |
| RCB180SM6 | 34.9 | 116.2 | 12.7 | 19.5 | M6 | 52.8 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01645 |
| RCB180SM8 | 34.9 | 116.2 | 12.7 | 19.5 | M8 | 52.8 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01440 |
| RCB180SM10 | 34.9 | 116.2 | 12.7 | 19.5 | M10 | 52.8 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01390 |
| RCB1805M12 | 34.9 | 116.2 | 12.7 | 19.5 | M12 | 52.8 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01441 |
| RCB90LM6 | 34.9 | 129.9 | 12.7 | 19.5 | M6 | 26.7 | 90° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01652 |
| RCB90LM8 | 34.9 | 129.9 | 12.7 | 19.5 | M8 | 26.7 | 90° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01460 |
| RCB180MM6 | 34.9 | 138.2 | 12.7 | 19.5 | M6 | 74.8 | 180° Medium | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01646 |
| RCB180LM6 | 34.9 | 167.2 | 12.7 | 19.5 | M6 | 103.8 | 180° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01647 |

All dimensions in mm. Subject to technical changes.

For bundle diameters from 19.4 mm to 36.0 mm

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | Hole Ø (FH) | Fixing Hole Centres (F) | Variant | Material | Colour | Article-No. |
|------------|--------------|---------------|---------------------|---------------------|-------------------|-------------------------------|-------------|---------------------|------------|-------------|
| RCC90SM6 | 34.9 | 141.8 | 19.4 | 36.0 | M6 | 39.9 | 90° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01659 |
| RCC90SM8 | 34.9 | 141.8 | 19.4 | 36.0 | M8 | 39.9 | 90° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01492 |
| RCC180SM6 | 34.9 | 156.1 | 19.4 | 36.0 | M6 | 62.3 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01653 |
| RCC180SM8 | 34.9 | 156.1 | 19.4 | 36.0 | M8 | 62.3 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01474 |
| RCC180SM10 | 34.9 | 156.1 | 19.4 | 36.0 | M10 | 62.3 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01475 |
| RCC180SM12 | 34.9 | 156.1 | 19.4 | 36.0 | M12 | 62.3 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01476 |
| RCC90LM6 | 34.9 | 169.8 | 19.4 | 36.0 | M6 | 39.9 | 90° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01660 |
| RCC90LM8 | 34.9 | 169.8 | 19.4 | 36.0 | M8 | 39.9 | 90° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01495 |
| RCC180MM6 | 34.9 | 178.1 | 19.4 | 36.0 | M6 | 84.3 | 180° Medium | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01654 |
| RCC180LM6 | 34.9 | 207.1 | 19.4 | 36.0 | M6 | 113.3 | 180° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01655 |

All dimensions in mm. Subject to technical changes.

For bundle diameters from 36.0 mm to 51.0 mm

| ТҮРЕ | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | Hole Ø (FH) | Fixing Hole Centres (F) | Variant | Material | Colour | Article-No. |
|------------|--------------|---------------|---------------------|---------------------|----------------|-------------------------------|------------|---------------------|------------|-------------|
| RCD180SM8 | 34.9 | 181.5 | 36.0 | 51.0 | M8 | 70.0 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01499 |
| RCD1805M10 | 34.9 | 181.5 | 36.0 | 51.0 | M10 | 70.0 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01501 |
| RCD1805M12 | 34.9 | 181.5 | 36.0 | 51.0 | M12 | 70.0 | 180° Short | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01502 |
| RCD90LM8 | 34.9 | 195.2 | 36.0 | 51.0 | M8 | 42.4 | 90° Long | PA66HIRHSUV, ST, ZN | Black (BK) | 151-01521 |

All dimensions in mm. Subject to technical changes.

Accessories

| ТҮРЕ | Variant | Material | Colour | Article-No. | | |
|-----------|----------------|-------------|------------|-------------|--|--|
| RCTT | No Serration | PA66HIRHSUV | Black (BK) | 151-01529 | | |
| RCINSERTA | Rubber profile | TPE | Black (BK) | 151-01530 | | |
| RCINSERTB | Rubber profile | TPE | Black (BK) | 151-01531 | | |
| RCINSERTC | Rubber profile | TPE | Black (BK) | 151-01532 | | |
| RCINSERTD | Rubber profile | TPE | Black (BK) | 151-01533 | | |

Aluminium P-Clamps

Alu-P-Clamp with / without chloroprene insert

Manufactured from a high quality aluminium, these metal P-Clamps provide flexibility whilst providing a permanent fixing in the most arduous of environments. The addition of a chloroprene insert provides the cable or pipe bundle with a high degree of protection against vibration, reducing noise and also providing electrical isolation. They are commonly used in caravan construction, the defence and railway industry as well as in the renewable energy sector.

Features and benefits

- Simple and secure pipe or cable fixation
- Can be combined with chloroprene rubber for vibration resistance
- Ideal for use in high temperature applications
- Suitable for applications needing strength of metal components



P-Clamps manufactured in polyamide, aluminium or aluminium with a chloroprene insert.





ALU P-Clamp (side view)

ALU P-Clamp (plan view)

ALU_C P-Clamp with chloroprene insert (side view)

ALU_C P-Clamp with chloroprene insert (plan view)

| TYPE | Width (W) | Width (W2) | Wall (WT) | Wall (WT2) | Hole Ø (FH) | Fixing Hole Centres (F2) | Fixing Hole Centres (F3) | Bundle Ø max. | Radius (R) | Material | Colour | Article-No. |
|--------|--------------|---------------|--------------|---------------|-------------------|--------------------------------|--------------------------------|------------------|---------------|----------|--------------|-------------|
| ALU4 | 12.7 | - | 0.80 | - | 5.2 | 11.6 | 5.5 | 6.4 | 1.6 | AL | Natural (NA) | 211-10040 |
| ALU5 | 12.7 | - | 0.80 | - | 5.2 | 12.6 | 5.5 | 8.0 | 1.6 | AL | Natural (NA) | 211-10050 |
| ALU6 | 12.7 | - | 0.80 | - | 5.2 | 13.4 | 5.5 | 9.5 | 1.6 | AL | Natural (NA) | 211-10060 |
| ALU7 | 12.7 | - | 0.80 | - | 5.2 | 14.2 | 5.5 | 11.1 | 1.6 | AL | Natural (NA) | 211-10070 |
| ALU8 | 12.7 | - | 0.80 | - | 5.2 | 15.0 | 5.5 | 12.7 | 1.6 | AL | Natural (NA) | 211-10080 |
| ALU10 | 12.7 | - | 0.80 | - | 5.2 | 16.6 | 5.5 | 15.9 | 1.6 | AL | Natural (NA) | 211-10100 |
| ALU11 | 12.7 | - | 1.30 | - | 5.2 | 19.1 | 5.5 | 17.5 | 2.8 | AL | Natural (NA) | 211-10110 |
| ALU12 | 12.7 | - | 1.30 | - | 5.2 | 19.9 | 5.5 | 19.1 | 2.8 | AL | Natural (NA) | 211-10120 |
| ALU13 | 12.7 | - | 1.30 | - | 5.2 | 20.7 | 5.5 | 20.6 | 2.8 | AL | Natural (NA) | 211-10130 |
| ALU4C | 16.3 | 12.7 | 3.70 | 0.8 | 5.2 | 11.6 | 5.5 | 3.2 | 1.6 | AL, CR | Black (BK) | 211-15040 |
| ALU5C | 16.3 | 12.7 | 3.70 | 0.8 | 5.2 | 12.6 | 5.5 | 4.8 | 1.6 | AL, CR | Black (BK) | 211-15050 |
| ALU6C | 16.3 | 12.7 | 3.70 | 0.8 | 5.2 | 13.4 | 5.5 | 6.4 | 1.6 | AL, CR | Black (BK) | 211-15060 |
| ALU7C | 16.3 | 12.7 | 3.70 | 0.8 | 5.2 | 14.2 | 5.5 | 8.0 | 1.6 | AL, CR | Black (BK) | 211-15070 |
| ALU8C | 16.3 | 12.7 | 3.70 | 0.8 | 5.2 | 15.0 | 5.5 | 9.5 | 1.6 | AL, CR | Black (BK) | 211-15080 |
| ALU9C | 16.3 | 12.7 | 3.70 | 0.8 | 5.2 | 15.8 | 5.5 | 11.1 | 1.6 | AL, CR | Black (BK) | 211-15090 |
| ALU10C | 16.3 | 12.7 | 3.70 | 0.8 | 5.2 | 16.6 | 5.5 | 12.7 | 1.6 | AL, CR | Black (BK) | 211-15100 |
Aluminium P-Clamps

Alu-P-Clamp with / without chloroprene insert





FH





ALU P-Clamp (side view)

ALU P-Clamp (plan view)

ALU_C P-Clamp with chloroprene insert (side view)

ALU_C P-Clamp with chloroprene insert (plan view)

| ТҮРЕ | Width (W) | Width (W2) | Wall (WT) | Wall (WT2) | Hole Ø (FH) | Fixing Hole Centres (F2) | Fixing Hole Centres (F3) | Bundle Ø max. | Radius (R) | Material | Colour | Article-No. |
|--------|--------------|---------------|--------------|---------------|-------------------|--------------------------------|--------------------------------|------------------|---------------|----------|------------|-------------|
| ALU11C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 19.1 | 5.5 | 14.3 | 2.8 | AL, CR | Black (BK) | 211-15110 |
| ALU12C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 19.9 | 5.5 | 15.9 | 2.8 | AL, CR | Black (BK) | 211-15120 |
| ALU13C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 20.7 | 5.5 | 17.5 | 2.8 | AL, CR | Black (BK) | 211-15130 |
| ALU14C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 21.5 | 5.5 | 19.1 | 2.8 | AL, CR | Black (BK) | 211-15140 |
| ALU15C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 22.3 | 5.5 | 20.6 | 2.8 | AL, CR | Black (BK) | 211-15150 |
| ALU16C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 23.1 | 5.5 | 22.2 | 2.8 | AL, CR | Black (BK) | 211-15160 |
| ALU17C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 23.9 | 5.5 | 23.8 | 2.8 | AL, CR | Black (BK) | 211-15170 |
| ALU18C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 24.6 | 5.5 | 25.4 | 2.8 | AL, CR | Black (BK) | 211-15180 |
| ALU19C | 16.3 | 12.7 | 4.50 | 1.3 | 5.2 | 25.5 | 5.5 | 27.0 | 2.8 | AL, CR | Black (BK) | 211-15190 |
| ALU20C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 27.0 | 5.5 | 28.6 | 3.2 | AL, CR | Black (BK) | 211-15200 |
| ALU22C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 28.6 | 5.5 | 31.8 | 3.2 | AL, CR | Black (BK) | 211-15220 |
| ALU23C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 29.4 | 5.5 | 33.3 | 3.2 | AL, CR | Black (BK) | 211-15230 |
| ALU24C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 30.2 | 5.5 | 34.9 | 3.2 | AL, CR | Black (BK) | 211-15240 |
| ALU25C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 30.8 | 5.5 | 36.5 | 3.2 | AL, CR | Black (BK) | 211-15250 |
| ALU26C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 31.7 | 5.5 | 38.1 | 3.2 | AL, CR | Black (BK) | 211-15260 |
| ALU28C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 33.3 | 5.5 | 41.3 | 3.2 | AL, CR | Black (BK) | 211-15280 |
| ALU29C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 34.1 | 5.5 | 42.9 | 3.2 | AL, CR | Black (BK) | 211-15290 |
| ALU30C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 34.9 | 5.5 | 44.5 | 3.2 | AL, CR | Black (BK) | 211-15300 |
| ALU34C | 16.3 | 12.7 | 4.50 | 1.6 | 5.2 | 38.1 | 5.5 | 50.8 | 3.2 | AL, CR | Black (BK) | 211-15340 |

Cable Ties and Fixings Cable Tie Mounts



Plastic P-Clamps

HP-Series

For permanent or semi-permanent cable fixings this range of plastic P-Clamps can be used in many industries. Their light weight makes them particularly suitable for use in areas such as aircraft and aerospace where minimising weight, but retaining a strong fixing, is vitally important.

Features and benefits

- Manufactured from Polyamide
- Good temperature resistance and high strength
- Wide range of sizes for every application
- Can be used without cable ties





P-Clamp H1P - H18P (side view)

P-Clamp H1P - H18P (plan view)



P-Clamps H1P - H18P in different dimensions.



Material specification please see page 26.

| ТҮРЕ | Width (W) | Wall (WT) | Hole Ø (FH) | Bundle Ø max. | Fixing Hole Centres (F) | Radius (R) | Material | Colour | Article-No. |
|------|--------------|--------------|----------------|------------------|-------------------------------|---------------|----------|--------------|-------------|
| | 10.0 | 0.80 | 4.2 | 3.2 | 8.5 | 0.5 | PA66 | Natural (NA) | 211-60019 |
| H1P | 10.0 | 0.80 | 4.2 | 3.2 | 8.5 | 0.5 | PA66HS | Black (BK) | 211-60000 |
| | 10.0 | 1.00 | 4.2 | 5.0 | 9.5 | 1.0 | PA66 | Natural (NA) | 211-60029 |
| H2P | 10.0 | 1.00 | 4.2 | 5.0 | 9.5 | 1.0 | PA66HS | Black (BK) | 211-60001 |
| НЗР | 10.0 | 1.00 | 4.2 | 6.5 | 10.0 | 1.0 | PA66 | Natural (NA) | 211-60039 |
| пзр | 10.0 | 1.00 | 4.2 | 6.5 | 10.0 | 1.0 | PA66HS | Black (BK) | 211-60002 |
| | 10.0 | 1.20 | 4.2 | 8.0 | 10.0 | 1.0 | PA66 | Natural (NA) | 211-60049 |
| H4P | 10.0 | 1.20 | 4.2 | 8.0 | 10.0 | 1.0 | PA66HS | Black (BK) | 211-60003 |
| | 10.0 | 1.20 | 4.2 | 9.5 | 11.0 | 1.0 | PA66 | Natural (NA) | 211-60059 |
| H5P | 10.0 | 1.20 | 4.2 | 9.5 | 11.0 | 1.0 | PA66HS | Black (BK) | 211-60004 |
| LICD | 10.0 | 1.20 | 4.2 | 11.0 | 13.0 | 1.0 | PA66 | Natural (NA) | 211-60069 |
| H6P | 10.0 | 1.20 | 4.2 | 11.0 | 13.0 | 1.0 | PA66HS | Black (BK) | 211-60005 |
| H7P | 10.0 | 1.20 | 4.2 | 12.5 | 14.0 | 1.5 | PA66 | Natural (NA) | 211-60079 |
| пл | 10.0 | 1.20 | 4.2 | 12.5 | 14.0 | 1.5 | PA66HS | Black (BK) | 211-60006 |
| H8P | 10.0 | 1.50 | 4.2 | 14.0 | 15.0 | 1.5 | PA66 | Natural (NA) | 211-60089 |
| пор | 10.0 | 1.50 | 4.2 | 14.0 | 15.0 | 1.5 | PA66HS | Black (BK) | 211-60007 |
| Н9Р | 10.0 | 1.50 | 4.2 | 16.0 | 16.0 | 1.5 | PA66 | Natural (NA) | 211-60099 |
| пэр | 10.0 | 1.50 | 4.2 | 16.0 | 16.0 | 1.5 | PA66HS | Black (BK) | 211-60008 |
| H10P | 10.0 | 1.50 | 4.2 | 17.5 | 17.0 | 1.5 | PA66 | Natural (NA) | 211-60109 |
| птор | 10.0 | 1.50 | 4.2 | 17.5 | 17.0 | 1.5 | PA66HS | Black (BK) | 211-60009 |
| H11P | 10.0 | 1.50 | 4.2 | 19.0 | 18.0 | 2.0 | PA66 | Natural (NA) | 211-60119 |
| H12P | 10.0 | 1.50 | 4.2 | 20.5 | 19.0 | 2.0 | PA66 | Natural (NA) | 211-60129 |
| H13P | 12.0 | 1.50 | 5.2 | 22.0 | 20.5 | 2.0 | PA66 | Natural (NA) | 211-60139 |
| H14P | 12.0 | 1.50 | 5.2 | 24.0 | 21.5 | 2.0 | PA66 | Natural (NA) | 211-60149 |
| H15P | 12.0 | 1.50 | 5.2 | 25.5 | 23.0 | 2.5 | PA66 | Natural (NA) | 211-60159 |
| H16P | 12.0 | 1.50 | 5.2 | 28.5 | 24.0 | 2.5 | PA66 | Natural (NA) | 211-60169 |
| H17P | 12.0 | 1.50 | 5.2 | 31.5 | 26.0 | 2.5 | PA66 | Natural (NA) | 211-60179 |
| H18P | 12.0 | 1.50 | 5.2 | 35.0 | 27.5 | 2.5 | PA66 | Natural (NA) | 211-60189 |

Fixing Elements with Fir Tree, for Distance Routing Saddle Mount

These heavy duty fixing offers excellent performance for ship building and the truck and construction vehicle industries.

Features and benefits

- For parallel routing of four bundles
- Secure alignment to the bundle due to H-design
- For cable ties up to 12.7 mm wide
- · Pre-fixing of tie with integrated nose



The mount can secure up to four separate bundles, providing parallel spacing between the frame rail and adjacent bundles.



Fir Tree Saddle Mounts

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Height (H2) | Hole Ø (FH) | Panel Thickness | Bundle Ø max. | Material | Colour | Pack Cont. | Article-No. |
|---------|--------------|---------------|---------------|----------------|----------------|--------------------|------------------|-----------|------------|---------------|-------------|
| S3STM50 | 22.0 | 50.0 | 35.0 | 55.0 | 12.7 - 13.7 | 1.9 - 13.0 | 127.0 | PA66HIRHS | Black (BK) | 100 pcs. | 151-29500 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Fixing Elements for BHT-Ties for Distance Routing MSBT120

These heavy duty fixing offers excellent performance for ship building and the truck and construction vehicle industries.

Features and benefits

- · For parallel routing of three bundles
- · Retainer is fixed in the hole with BHT-tie
- · Socket centres retainer in the hole and can protect tie from sharp edges



MSBT120



Saddle Mount MSBT120.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Height (H2) | Hole Ø (FH) | Panel Thickness | Material | Colour | Pack Cont. | Article-No. |
|---------|--------------|---------------|---------------|----------------|----------------|--------------------|------------|------------|---------------|-------------|
| MSBT120 | 16.5 | 48.3 | 20.6 | 22.2 | 11.2 - 20.8 | 2.7 | PA66HIRHSW | Black (BK) | 500 pcs. | 151-29301 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



MP-Series for parallel bundling

Many applications require each cable run to be firmly held in place but to be held separately from adjacent cable runs (example - control cabinets, machinery and military systems). The MP series of mounts can achieve this.

Features and benefits

Ē

• Allow multiple cables to run in parallel

Material specification

please see page 26.

- Simple to fix with two screws
- Cables are fixed by using a cable tie through any combination of the available slots



MSMP mounting plates, screwable



Mounting plates MP and MSMP (plan and side view)

Mounting plates in application

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Strap Width max. (G) | No. of bundles | Material | Colour | Pack Cont. | Article-No. |
|----------|--------------|---------------|---------------|----------------|----------------------------|-------------------|----------|--------------|---------------|-------------|
| MP2M3 | 12.7 | 76.2 | 3.2 | 3.7 | 5.2 | 2 | PA66 | Natural (NA) | 100 pcs. | 151-24219 |
| MP3M3 | 12.7 | 108.0 | 3.2 | 3.7 | 5.2 | 3 | PA66 | Natural (NA) | 100 pcs. | 151-24319 |
| MP4M3 | 12.7 | 139.8 | 3.2 | 3.7 | 5.2 | 4 | PA66 | Natural (NA) | 100 pcs. | 151-24419 |
| MP5M3 | 12.7 | 171.6 | 3.2 | 3.7 | 5.2 | 5 | PA66 | Natural (NA) | 100 pcs. | 151-24519 |
| MSMP5/10 | 15.8 | 204.5 | 5.3 | 5.1 | 7.6 | 5 | PA66 | Natural (NA) | 100 pcs. | 151-25519 |
| MSMP6/6 | 15.8 | 244.0 | 5.3 | 3.8 | 7.6 | 6 | PA66 | Natural (NA) | 100 pcs. | 151-25619 |
| MSMP4 | 15.9 | 167.0 | 5.2 | 5.1 | 8.2 | 4 | PA66 | Natural (NA) | 500 pcs. | 150-83499 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.





Manual and pneumatic processing tools: The professional way to fasten metal cable ties



Cable Fixing Cradle

TM1SF for cable ties width up to 5.0 mm

Offering simple and easy methods of securing cables or pipes, these fixing accessories have many applications within a wide range of industries.

Features and benefits

- Ideal mount for space-saving applications with restricted access
- Arrowhead for very secure fixing



TM1SF Fixing Base



TM1SF Fixing Base for pre-drilled or pre-punched holes.



| ТҮРЕ | Width (W) | Length (L) | Height (H) | Height (H2) | Hole Ø (FH) | Panel Thickness | Strap Width max. (G) | Material | Colour | Article-No. |
|-------|--------------|---------------|---------------|----------------|----------------|--------------------|-------------------------|----------|------------|-------------|
| TM1SF | 10.2 | 15.8 | 4.6 | 4.6 | 6.35 | 3.3 - 3.4 | 5.0 | PA66 | White (WH) | 151-40119 |

All dimensions in mm. Subject to technical changes.

Arrowhead Cradle

SFC

Offering simple and easy methods of securing cables or pipes, these fixing accessories have many applications within a wide range of industries.

Features and benefits

- · Arrowhead fixing for use in pre-drilled or punched holes
- SFC and SFC2 for ties up to 5.3 mm wide
- SFC3 for ties up to 8.6 mm wide





Securely fix and route cables and pipes with SFC3.

| ТҮРЕ | Width (W) | Length (L) | Hole Ø (FH) | Panel Thickness | Strap Width max. (G) | Material | Colour | Article-No. |
|------|--------------|---------------|----------------|--------------------|-------------------------|----------|--------------|-------------|
| SFC2 | 6.0 | 14.5 | 6.0 | 0.8 - 1.0 | 5.3 | PA66 | Natural (NA) | 151-02000 |
| SFC | 11.0 | 18.0 | 6.0 | 3.0 - 3.2 | 5.3 | PA66 | Natural (NA) | 151-01600 |
| SFC3 | 22.0 | 15.5 | 6.3 | 0.8 - 1.8 | 8.6 | PA66 | Black (BK) | 151-01906 |
| 3FC3 | 22.0 | 15.5 | 6.3 | 0.8 - 1.8 | 8.6 | PA66 | Natural (NA) | 151-01909 |



Bundling clips

Originally designed for the Automotive industry, these clips offer simple and easy methods of securing cables, hoses or pipes. They have many applications within a wide range of industries.

Bundling Clips for Edges

Features and benefits

- Easy assembly, just shuffle manually
- Designed for edges of 1 3 and 1.5 4 mm
- Integrated metal clamp holds clip firmly in place
- · Clamp consists of double tempered steel spring
- ATS fixing elements can be tied automatically with tools ATS3080, AT2000 or AT2000CPK



Cables and leads can be fastened with a cable tie or adhesive tape to the bars of the mounting element.



EC17 - Cables and leads can be fastened with adhesive tape to the bar of the mounting element.

Bundling Clips for Weld Studs, moveable

Features and benefits

- Very flat bundling clip for 5.0 mm weld stud
- Horizontal length tolerance compensation
- · Suitable for cables of reduced weight and diameter



TCSB5CYCC: Tapebar, Stud Retainer and ConnectorClip in just one article.



The slim line BC series is particularly compact and flexible.

Bundling Clips for round and oval holes

Features and benefits

- Easy to install without the need for a tool
- One fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Holding tabs prevent the tie slipping sideways
- · Versions for oval holes feature anti-twist protection



Designed for defined distance of bundles to the hole.



COW Clip used as tape-on clip.



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Fixing Elements

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Other product variants are available in our Automotive catalogue.



Bundling Clips for Edges

| ТҮРЕ | Drawing | Width (W) | Length (L) | Height (H) | Panel Thickness | Material | Colour | Article-No. |
|------|---------|--------------|---------------|---------------|--------------------|-----------|------------|-------------|
| EC14 | | 10.0 | 40.0 | 12.4 | 1.0 - 3.0 | PA66HIRHS | Black (BK) | 151-03404 |

All dimensions in mm. Subject to technical changes.

Bundling Clips for Weld Studs, moveable

| ТҮРЕ | Drawing | Length (L) | Length (L2) | Stud Ø | Material | Colour | Article-No. |
|--------------|---------|---------------|----------------|-----------|-----------|--------------|-------------|
| BC30 | | 55.0 | 30.0 | 5.0 | PA66HIRHS | Black (BK) | 151-00016 |
| BCUWS5-D5-25 | | 50.0 | - | 5.0 | PA66HIRHS | Natural (NA) | 151-00851 |

All dimensions in mm. Subject to technical changes.

Bundling Clips for round and oval holes

| ТҮРЕ | Drawing | Length (L) | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|------------------|---------|---------------|----------------|--------------------|-----------|--------------|-------------|
| TC4FT6LG | | 37.0 | 6.3 - 7.0 | 0.6 - 5.1 | PA66HIRHS | Black (BK) | 151-00215 |
| WICKELCLIP-VDS | | 40.0 | 6.3 x 9.0 | 0.6 - 2.5 | PA66HIRHS | Black (BK) | 155-16301 |
| STAND-OFF-CLIP-2 | | 40.0 | 6.5 - 6.8 | 0.4 - 1.6 | PA66HIRHS | Black (BK) | 155-01600 |
| BCSFT6.5 16-3MD | | 55.0 | 6.3 - 6.7 | 1.5 - 3.0 | PA66HIRHS | Black (BK) | 155-11601 |
| BCOWFT6M | | 27.3 | 6.5 - 7.0 | 0.6 - 3.5 | PA66HIRHS | Natural (NA) | 151-00790 |

All dimensions in mm. Subject to technical changes.

Date of issue: 10/2017



Connector Clips

The connector clips used here have been designed for electronic cables and cable sets used in the automotive industry.

Connector Clips for oval holes

Features and benefits

- Connector easily installed by simply pushing into place
- Connection can be released non-destructive
- Easy assembly, just shuffle manually
- Oval connectors offer twist protection



For a secure fixation simply push the connector by hand on our Connector Clip YCCFT62x122.

Connector Clips for Edges

Features and benefits

- Connectors are mounted simply by pushing them into retainer
- Connector can be removed without damage
- Fastened to an edge, the EdgeClip ensures snug fit almost all types of connector



EdgeClip EC6mod.

Connector Clips for round holes

Features and benefits

- Connector easily installed by simply pushing into place
- Connection can be released (non-destructive)
- One fir tree foot part can be used for a variety of panel thicknesses
- Arrowhead simply locks into place
- Disc covers the hole to prevent dirt and water gaining access
- · For twist protection: Variants with additional stick or for oval holes



Connector Clips are available for many different connector types and fixing varieties.



172

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Other product variants are available in our Automotive catalogue.

Connector Clips for oval holes

| ТҮРЕ | Drawing | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|-----------|---------|----------------|--------------------|-----------|-----------|-------------|
| CCSFT7x12 | | 7.0 x 12.0 | 0.8 - 2.0 | PA66HIRHS | Grey (GY) | 151-00222 |

All dimensions in mm. Subject to technical changes.

Connector Clips for Edges

| ТҮРЕ | Drawing | Panel Thickness | Material | Colour | Article-No. |
|--------|---------|--------------------|-----------|------------|-------------|
| EC42 | | 1.5 - 4.0 | PA66HIRHS | Black (BK) | 151-00429 |
| EC6mod | | 1.0 - 3.0 | PA66HIRHS | Black (BK) | 151-00464 |

All dimensions in mm. Subject to technical changes.

Connector Clips for round holes

| ТҮРЕ | Drawing | Hole Ø (FH) | Stud Ø | Panel Thickness | Material | Colour | Article-No. |
|------------------------|---------|----------------|-----------|--------------------|-----------|------------|-------------|
| FT6LG-AMP | | 6.5 - 7.0 | - | 0.7 - 6.0 | PA66HIRHS | Black (BK) | 155-03800 |
| CC-PAEKSFT6.5PT1.7-2.3 | | 6.3 - 6.7 | - | 1.7 - 2.3 | PA66HIRHS | Black (BK) | 151-00840 |
| CCSBS5 | | - | 5.0 | - | PA66HIRHS | Black (BK) | 151-01196 |



Automatic bundling

Bundling Clips for Automatic Cable Tying Systems

Features and benefits

- Optimized for use automatic cable tying systems
- Easy to apply
- The fixing elements can be tied automatically with Autotool 2000 family and Autotool System 3080



Fixing Elements for Automatic bundling.

| ТҮРЕ | Drawing | Panel Thickness | Hole Ø (FH) | Colour | Material | Article-No. |
|----------------------|--|--------------------|----------------|------------|-----------|-------------|
| ATSBCEC35 | | 1.5 - 4.0 | - | Black (BK) | PA66HIRHS | 102-68355 |
| ATSBCSFT6.5 | The second second | 2.3 - 3.3 | 6.3 - 6.7 | Black (BK) | PA66HIRHS | 102-69066 |
| ATSBCSFT6.5-MD | Const Const | 2.0 - 3.0 | 6.3 - 6.7 | Black (BK) | PA66HIRHS | 102-69065 |
| ATSBCEC36 | | 1.5 - 4.0 | - | Black (BK) | PA66HIRHS | 102-68365 |
| ATSBCEC37 | | 1.5 - 4.0 | - | Black (BK) | PA66HIRHS | 102-68375 |
| ATSBCFT6LG | | 0.6 - 5.1 | 6.3 - 7.0 | Black (BK) | PA66HIRHS | 102-67065 |
| ATSBCEC38 | | 1.5 - 4.0 | - | Black (BK) | PA66HSW | 102-68385 |
| ATSBCKSFT6.5 | (Salara | 0.7 - 1.3 | 6.3 - 6.7 | Black (BK) | PA66HIRHS | 102-69067 |
| ATSBC2KSFT6.5 | Jame Dunker | 1.7 - 2.3 | 6.3 - 6.7 | Black (BK) | PA66HIRHS | 102-69068 |
| ATSBCOWSFT6.5 | Contraction of the second seco | 2.3 - 3.3 | 6.3 - 6.7 | Grey (GY) | PA46 | 102-69080 |
| ATSBCSFT6.5PT2.3-3.3 | Contraction of the second | 2.3 - 3.3 | 6.3 - 6.7 | Grey (GY) | PA46 | 102-69089 |

Automatic bundling

Edge Clips for Automatic Cable Tying Systems

| ТҮРЕ | Drawing | Panel Thickness | Material | Colour | Article-No. |
|---------|---------|--------------------|-----------|------------|-------------|
| ATSEC38 | | 1.5 - 4.0 | PA66HIRHS | Black (BK) | 102-68380 |
| ATSEC37 | | 1.5 - 4.0 | PA66HIRHS | Black (BK) | 102-68370 |
| ATSEC35 | | 1.5 - 4.0 | PA66HIRHS | Black (BK) | 102-68350 |
| ATSEC36 | | 1.5 - 4.0 | PA66HIRHS | Black (BK) | 102-68360 |

All dimensions in mm. Subject to technical changes.

Fir Tree Clips for Automatic Cable Tying Systems

| ТҮРЕ | Drawing | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|-----------|---------|----------------|--------------------|-----------|------------|-------------|
| ATSFT5LG | | 4.5 - 5.0 | 0.7 - 8.0 | PA66HIRHS | Black (BK) | 102-67050 |
| ATSFT6 | | 6.3 - 7.0 | 0.8 - 3.0 | PA66HIRHS | Black (BK) | 102-67060 |
| ATSFT6LG | | 6.5 - 7.1 | 0.6 - 6.0 | PA66HIRHS | Black (BK) | 102-67062 |
| ATSFT8GSD | | 8.0 - 8.5 | 1.5 - 4.0 | PA66HIRHS | Black (BK) | 102-67081 |

Fixing Elements for Tubes and Harnesses

KSFT6.5OC with low Arrowhead

This fixing elements can be used ideally everywhere where space saving work is necessary.

Features and benefits

- Fixing part with rounded arrowhead to minimise assembly height
- · Ideal for applications where space is limited
- Simply clip on a wire or hose
- Bundle diameter is defined
- Suitable for post-installation of bundles



KSFT6.5 OC 7-9



The very low arrowhead is specially designed for narrow installation spaces.

| ТҮРЕ | Drawing | Height (H) | Attach to Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|--------------|---------|---------------|----------------|----------------|--------------------|-----------|------------|-------------|
| KSFT6.50C1-3 | | 14.4 | 1.0 - 3.0 | 6.3 - 6.7 | 2.3 - 2.7 | PA66HIRHS | Black (BK) | 151-01843 |
| KSFT6.50C7-9 | | 21.6 | 7.0 - 9.0 | 6.3 - 6.7 | 2.3 - 2.7 | PA66HIRHS | Black (BK) | 151-01844 |

All dimensions in mm. Subject to technical changes.

Fixing Elements with Fir Tree

HC48FT6 with Firtree for bundle diameter 4.8 mm

Features and benefits

- Easy to install without the need for a tool
- Disc covers the hole to prevent dirt and water gaining access
- Bundle diameter is defined
- Clips to be attached into bore hole
- Suitable for post-installation of bundles



HC48FT6



The HC48FT6 is designed for Bundle diameter 4.3 - 5.2 mm.

| ТҮРЕ | Drawing | Height (H) | Attach to Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|---------|---------|---------------|----------------|----------------|--------------------|-----------|------------|-------------|
| HC48FT6 | | 20.8 | 4.3 - 5.2 | 6.5 - 7.0 | 0.7 - 2.8 | PA66HIRHS | Black (BK) | 151-00680 |
| HC48FT5 | | 20.8 | 4.5 - 5.2 | 4.5 - 5.0 | 0.7 - 3.0 | PA66HIRHS | Black (BK) | 151-01405 |

Fixing Elements for Tubes and Harnesses with Automatic Locking Feature

AHC-Series

Offering a simple and secure method of attaching cables to panels. Originally designed for the automotive industry, these products are used in a wide range of applications with sheet metal panels across various industries.

Features and benefits

- Push and click closure for fixation of wires
- Clip is clicked into a specific hole
- AHC()SS und AHC()SB can be pushed onto a 5.0 mm stud



Automatic Harness Clip open.

Material specification

please see page 26.



Automatic Harness Clip closed.



| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Hole Ø (FH) | Stud Ø | Panel Thickness | Material | Colour | Article-No. |
|--------|---------|--------------|---------------|------------------|----------------|-----------|--------------------|-----------|------------|-------------|
| AHC2SS | | 10.0 | 29.0 | 20.0 | - | 5.0 | - | PA66HIRHS | Black (BK) | 151-00368 |
| AHC1AH | | 10.0 | 24.0 | 13.0 | 6.2 - 6.7 | - | 0.5 - 2.0 | PA66HIRHS | Black (BK) | 151-00366 |
| AHC2AH | | 10.0 | 29.5 | 20.0 | 6.2 - 6.7 | - | 0.5 - 3.0 | PA66HIRHS | Black (BK) | 151-00367 |
| AHC4AH | S | 13.5 | 57.6 | 41.5 | 6.2 - 6.7 | - | 0.8 - 2.7 | PA66HIRHS | Black (BK) | 151-00374 |
| AHC3SB | | 10.0 | 43.0 | 28.0 | - | 5.0 | - | PA66HIRHS | Black (BK) | 151-00373 |
| AHC3DH | | 10.0 | 66.0 | 28.0 | 6.2 x 12.2 | _ | 0.5 - 2.0 | PA66HIRHS | Black (BK) | 151-00181 |

Fixing Elements for Tubes and Harnesses with Automatic Locking Feature

AHC-Series





Material specification please see page 26.

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Hole Ø (FH) | Stud Ø | Panel Thickness | Material | Colour | Article-No. |
|-------------|----------|--------------|---------------|------------------|----------------|-----------|--------------------|-----------|------------|-------------|
| АНСЗЕН2 | | 11.0 | 44.2 | 28.0 | 6.2 x 12.2 | - | 1.8 - 4.8 | PA66HIRHS | Black (BK) | 151-00928 |
| АНС2ВН | | 10.0 | 31.5 | 20.0 | 6.2 x 12.2 | - | 0.5 - 3.0 | PA66HIRHS | Black (BK) | 151-00208 |
| AHC3BHR | GH | 10.0 | 40.0 | 28.0 | 6.2 x 12.2 | - | 0.7 - 3.0 | PA66HIRHS | Black (BK) | 151-00370 |
| AHC45BHG2 | E C | 14.0 | 50.0 | 36.0 | 6.2 x 12.2 | - | 1.0 - 3.0 | PA46 | Grey (GY) | 151-01197 |
| AHC25FT6LG | | 10.0 | 34.0 | 22.0 | 6.4 - 7.0 | - | 0.7 - 4.0 | PA66HIRHS | Black (BK) | 151-01198 |
| AHC223FT6LG | | 10.0 | 35.0 | 23.0 | 6.4 - 7.0 | - | 0.7 - 4.0 | PA66HIRHS | Black (BK) | 151-01078 |
| AHC336FT6LG | F | 14.0 | 50.0 | 36.0 | 6.4 - 7.0 | - | 0.7 - 4.0 | PA66HIRHS | Black (BK) | 151-01302 |
| AHC3CHR | | 10.0 | 40.0 | 28.0 | 6.2 x 12.2 | - | 1.0 - 2.7 | PA6HIR | Black (BK) | 151-00371 |

Cable Ties and Fixings Fixing Elements

IAHC()AH in combination with an IAHC()T.



Fixing Elements for Tubes and Harnesses with Automatic Locking Feature, connectable **IAHC-Series**, Connectable

Offering a simple and secure method of attaching cables to panels. Originally designed for the automotive industry, these products are used in a wide range of applications with sheet metal panels across various industries.

Features and benefits

- Push and click closure
- Coupling elements of the IAHC variants allow parts to connect
- Clip is clicked into a specific hole
- IAHC()T can only be connected with another IAHC element



IAHC()T

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Material | Colour | Article-No. |
|--------|---------|--------------|---------------|------------------|-----------|------------|-------------|
| IAHC1T | | 10.0 | 23.0 | 13.0 | PA66HIRHS | Black (BK) | 151-00223 |
| IAHC2T | | 10.0 | 30.0 | 20.0 | PA66HIRHS | Black (BK) | 151-00199 |
| ІАНСЗТ | | 10.0 | 40.0 | 28.0 | PA66HIRHS | Black (BK) | 151-00213 |
| IAHC4T | | 13.5 | 47.0 | 36.0 | PA66HIRHS | Black (BK) | 151-00207 |
| IAHC5T | | 13.5 | 57.0 | 45.0 | PA66HIRHS | Black (BK) | 151-00195 |

All dimensions in mm. Subject to technical changes.

179

Fixing Elements for Tubes and Harnesses with Automatic Locking Feature, connectable IAHC-Serie, Connectable, with Arrowhead



Material specification please see page 26.



IAHC elements can be connected.



AHC()AH

| ТҮРЕ | Drawing | Width (W) | Length (L) | Bundle Ø max. | Hole Ø (FH) | Material | Colour | Article-No. |
|---------|-----------|--------------|---------------|------------------|----------------|-----------|------------|-------------|
| ІАНСЗАН | | 13.5 | 40.0 | 28.0 | 6.2 - 6.7 | PA66HIRHS | Black (BK) | 151-00378 |
| IAHC4AH | | 13.5 | 53.0 | 36.0 | 6.2 - 6.7 | PA6HIRHS | Black (BK) | 151-00211 |
| IANC4AN | \gtrsim | 13.5 | 53.0 | 36.0 | 6.2 - 6.7 | PA66HIRHS | Black (BK) | 151-00382 |
| ІАНС5ВН | d CO | 13.5 | 57.0 | 45.0 | 6.2 x 12.2 | PA66HIRHS | Black (BK) | 151-00384 |
| ІАНСЗСН | | 10.0 | 47.0 | 28.0 | 6.2 x 12.2 | PA66HIRHS | Black (BK) | 151-00381 |
| IAHC4CH | | 13.5 | 53.0 | 36.0 | 6.2 x 12.2 | PA6HIRHS | Black (BK) | 151-00383 |
| ІАНСЗЕН | E C | 13.5 | 44.5 | 28.0 | 6.2 x 12.2 | PA66HIRHS | Black (BK) | 151-00489 |
| ІАНС5ҒН | | 13.5 | 61.5 | 45.0 | 6.2 x 12.2 | PA66HIRHS | Black (BK) | 151-00787 |

Fixing Elements for Tubes and Harnesses

DTC - Double Tube Clip, rotatable 360°

These Pipeclips interconnect two different bundles of goods, of various size and type. The mobility of the fixing tie provides even in difficult conditions, such as vibrations, a secure grip and protects the cables or bundles.

Features and benefits

- Fixing clip offers full 360° rotation
- For routing of two different bundles
- Simply clip on a wire or hose
- Suitable for post-installation of bundles



DTC Tubeclip

DTC Tubeclip



DTCs for easy assembly of rotatable routed tubes and harnesses.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Ø (D) | Ø (D2) | Material | Colour | Article-No. |
|---------------|--------------|---------------|---------------|----------|-----------|-----------|------------|-------------|
| DTC18x5-S | 12.0 | 37.1 | 26.0 | 18.0 | 5.0 | PA66HIRHS | Black (BK) | 156-01311 |
| DTC18x6.5-S | 12.0 | 38.1 | 26.0 | 18.0 | 6.5 | PA66HIRHS | Black (BK) | 156-01312 |
| DTC18x9-11-5 | 12.0 | 43.0 | 26.0 | 18.0 | 11.0 | PA66HIRHS | Black (BK) | 156-01313 |
| DTC18x18-20-S | 12.0 | 54.0 | 35.6 | 18.0 | 20.0 | PA66HIRHS | Black (BK) | 156-01314 |
| DTC18x28-S | 12.0 | 63.0 | 45.0 | 18.0 | 28.0 | PA66HIRHS | Black (BK) | 156-01315 |

Wire Push In Clips

WPC-Series

With the increased complexity of electronic and electrical installations the use of the WPC clips enables cables to be installed using the minimum amount of space, a typical application would be in the frames / rails of control cabinets or within the white goods industry.

Features and benefits

- Accept single or multiple wires
- Simply push wires into place
- Self-locking to prevent accidental removal
- Arrowhead design for simple and secure installation
- · Access to panel only needed from one side



WPC Wire Push In Clip (side view, front view, in application)



WPC – Wire Push In Clip.



Material specification please see page 26.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|-------|--------------|---------------|---------------|----------------|--------------------|----------|--------------|-------------|
| WPC5 | 5.3 | 15.0 | 12.7 | 4.7 | 0.8 - 4.0 | PA66 | Natural (NA) | 151-75059 |
| WPC10 | 5.3 | 15.0 | 17.7 | 4.7 | 0.8 - 4.0 | PA66 | Natural (NA) | 151-75109 |
| WPC15 | 5.3 | 15.0 | 22.7 | 4.7 | 0.8 - 4.0 | PA66 | Natural (NA) | 151-75159 |
| WPC20 | 5.3 | 15.0 | 27.7 | 4.7 | 0.8 - 4.0 | PA66 | Natural (NA) | 151-75209 |

Fixing Elements for Tubes and Harnesses, for Edges EdgeClip-Family

EdgeClips are used in the automotive industries and electrical industries and when it is impossible to drill holes or no other fixing points are available.

Features and benefits

- Releasable fixing elements with EdgeClip
- Low-vibration routing of bigger bundle diameters
- Clips to be pushed onto an edge
- To be closed single handed, a snap can be felt
- Bundles can be released at any time
- EC27: fixing element enables usage of smaller bundle diameter
- EC41: for parallel guidance of two bundles



EdgeClip cable and tube clips are suitable for the low-vibration routing of cables and tubes with larger bundle diameters.

| ТҮРЕ | Drawing | Panel Thickness | Attach to Ø | Material | Colour | Article-No. |
|-------------|---------|--------------------|----------------|-----------|------------|-------------|
| EC27 | | 1.0 - 3.0 | 15.0 - 22.0 | PA66HIRHS | Black (BK) | 151-00161 |
| EC39 | | 1.0 - 3.0 | 15.3 - 15.9 | PA6HIR | Black (BK) | 151-00174 |
| EC41 | | 3.0 - 6.0 | 2 x 8.0 | PA66HIR | Black (BK) | 151-00234 |
| HCEC3.0SP-C | | 1.0 - 3.0 | 12.0 - 15.0 | PA66HIRHS | Black (BK) | 151-01863 |
| HCEC3.0TPS | | 1.0 - 3.0 | 4.5 - 5.0 | PA66HIRHS | Black (BK) | 151-00645 |

All dimensions in mm. Subject to technical changes.

183

Fixing Elements for Corrugated Tubing, with Fir Tree

CTC-Series

CTC clamps are used for example in the automotive, harness making, electrical industry and wherever corrugated tubing has be quickly and firmly fixed.

Features and benefits

- CTC clamps for a variety of nominal diameters
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes
- Tube is guided accurately by clicking
- Axial slipping is prevented by the inside profile of the clamp



The tubing is clicked into the CTC clamp and is held firmly.





CTC-Series

CNCTC8FT6.5LG CTCFT6



CNCT8FT6.5LG Clamps

| | Width | Height | Height | Nominal | Disc | Hole Ø | Panel | | | |
|--------------|-------|--------|--------|---------|------|-----------|-----------|-----------|------------|-------------|
| TYPE | (W) | (H) | (H2) | Ø | Ø | (FH) | Thickness | Material | Colour | Article-No. |
| CTC4.5FT6LG | 8.0 | 16.1 | 11.1 | 4.5 | 16.0 | 6.5 - 7.0 | 0.8 - 6.0 | PA66HIRHS | Black (BK) | 151-14314 |
| CTC7.5FT6LG | 8.0 | 18.6 | 11.1 | 7.5 | 16.0 | 6.5 - 7.0 | 0.8 - 6.0 | PA66HIRHS | Black (BK) | 151-14313 |
| CTC7.5FT9 | 8.0 | 19.9 | 12.2 | 7.5 | 23.0 | 8.7 - 9.0 | 3.0 - 5.0 | PA66HIRHS | Black (BK) | 155-31602 |
| CTC10FT6 | 8.0 | 21.4 | 7.5 | 10.0 | 16.0 | 6.5 - 7.0 | 0.8 - 3.0 | PA66HIRHS | Black (BK) | 151-14311 |
| CTC10FT6LG | 8.0 | 21.4 | 11.1 | 10.0 | 16.0 | 6.5 - 7.0 | 0.8 - 6.0 | PA66HIRHS | Black (BK) | 151-00018 |
| CTC10FT9 | 8.0 | 22.7 | 12.2 | 10.0 | 23.0 | 8.7 - 9.0 | 3.0 - 5.0 | PA66HIRHS | Black (BK) | 155-17801 |
| CTC13FT6 | 8.0 | 25.2 | 7.5 | 13.0 | 16.0 | 6.5 - 7.0 | 0.8 - 3.0 | PA66HIRHS | Black (BK) | 151-14312 |
| CTC13FT6LG | 8.0 | 25.2 | 11.1 | 13.0 | 16.0 | 6.5 - 7.0 | 0.8 - 6.0 | PA66HIRHS | Black (BK) | 151-00019 |
| CTC22FT9 | 8.0 | 37.7 | 12.2 | 22.0 | 23.0 | 8.7 - 9.0 | 3.0 - 5.0 | PA66HIRHS | Black (BK) | 155-25201 |
| CTCL4.5FT6LG | 10.0 | 14.3 | 10.7 | 4.5 | 16.0 | 6.5 - 7.0 | 0.8 - 6.0 | PA66HIRHS | Black (BK) | 151-01115 |

All dimensions in mm. Subject to technical changes.

| ТҮРЕ | Width (W) | Height (H) | Height (H2) | Nominal Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|--------|--------------|---------------|----------------|--------------|----------------|--------------------|-----------|------------|-------------|
| CTCFT6 | 11.0 | 18.5 | 9.3 | 15.0 | 6.3 - 6.7 | 0.7 - 4.5 | PA66HIRHS | Black (BK) | 151-00783 |

All dimensions in mm. Subject to technical changes.

CNCTC-Series with cover

| ТҮРЕ | Width (W) | Height (H) | Height (H2) | Nominal Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|----------------|--------------|---------------|----------------|--------------|----------------|--------------------|-----------|------------|-------------|
| CNCTC8FT6.5LG | 10.0 | 11.0 | 11.4 | 7.0 | 6.5 - 6.7 | 1.0 - 6.0 | PA66HIRHS | Black (BK) | 151-01038 |
| CINCTCOFT0.5LG | 10.0 | 11.0 | 11.4 | 7.0 | 6.5 - 6.7 | 1.0 - 6.0 | PA66HIRHS | Blue (BU) | 151-01177 |
| LC9FTOVAL | 10.0 | 37.7 | 13.2 | - | 6.2 x 12.2 | 0.6 - 6.8 | PA66HIRHS | Black (BK) | 151-01880 |

Fixing Elements for Corrugated Tubing, for Weld Studs

CTC-Series for Weld Studs

These holders are used in the automotive industry, in the production of cable harnesses and in the electrical industry. Their quick and easy mounting is the reason for their universal success wherever corrugated tubing and pipes have to be fixed quickly and securely.

Features and benefits

- Fixing elements for corrugated tubing for nominal diameters from 4.5 17.0 mm
- For M6 weld studs
- Soft-Push mechanic for simple assembly, without tool
- Tube is guided accurately by clicking
- Axial slipping is prevented by the inside profile of the clamp
- Clamp can be unscrewed and removed from the weld stud



The tubing is clicked into the CTC clamp and is held firmly.



| ТҮРЕ | Drawing | Width (W) | Length (L) | Height (H) | Nominal Ø | Stud Ø | Material | Colour | Article-No. |
|------------|---------|--------------|---------------|---------------|--------------|-----------|-----------|------------|-------------|
| CTC4.5SBS6 | ~ | 11.0 | 28.6 | 18.7 | 4.5 | 6.0 | PA66HIRHS | Black (BK) | 151-00700 |
| CTC7.5SBS6 | | 11.0 | 31.8 | 19.4 | 7.5 | 6.0 | PA66HIRHS | Black (BK) | 151-00701 |
| CTC10SBS6 | | 11.0 | 35.3 | 22.2 | 10.0 | 6.0 | PA66HIRHS | Black (BK) | 151-00702 |
| CTC13SBS6 | | 11.0 | 37.0 | 26.5 | 13.0 | 6.0 | PA66HIRHS | Black (BK) | 151-00703 |
| CTC17SBS6 | × | 11.0 | 44.6 | 33.2 | 17.0 | 6.0 | PA66HIRHS | Black (BK) | 151-00010 |



Fixing Elements for Corrugated Tubing, with Arrowhead

These clamps are used in the automotive industry, in the production of cable harnesses and in the electrical industry. Their quick and easy mounting is the reason for their universal success wherever corrugated tubing and pipes have to be fixed quickly and securely.

Features and benefits

- Clamps for corrugated tubing for a variety of nominal diameters
- Arrowhead simply locks into place
- Tube is guided accurately by clicking
- Axial slipping is prevented by the inside profile of the clamp
- CTCLPROFILE clamp can also fastened to a metal edge



Simple and secure installation of pipes or hoses to panels.



RCC D21, D24, D28



W



Material specification please see page 26.

| ТҮРЕ | Drawing | Width (W) | Length (L) | Height (H) | Nominal Ø | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|-------------|---------|--------------|---------------|---------------|--------------|----------------|--------------------|-----------|------------|-------------|
| RCC D21 | | 22.0 | 31.0 | 30.0 | 21.0 | 6.2 x 12.2 | 0.7 - 2.5 | PA66HIRHS | Black (BK) | 150-92300 |
| RCC D24 | RON | 22.0 | 33.0 | 33.0 | 24.0 | 6.2 x 12.2 | 0.7 - 2.5 | PA66HIRHS | Black (BK) | 155-04000 |
| RCC D28 | | 22.0 | 37.0 | 37.0 | 28.0 | 6.75 x 13.25 | 0.7 - 3.0 | PA66HIRHS | Black (BK) | 151-00598 |
| CTCLPROFILE | | 12.0 | 64.5 | 59.5 | 31.2 | 7.8 - 8.2 | 2.3 - 2.7 | PA66HIRHS | Black (BK) | 151-00026 |

Fixing Elements for Weld Studs

Many industries (but specifically the automotive market) are using weld studs as the standard method of attaching components. Simply hammered onto the stud these parts provide ideal fixing bases for attaching cables, pipes or hose.

The use of weld studs avoids the problems with holes (ingress of moisture, corrosion etc).

Features and benefits

- Simple and quick method of fixing
- SBH types simply hammered onto the stud
- + SBH1 and SBH3 allow cables to run across the panel
- SBH2 allow cables to run at 90° to the panel



SBH2 allow cables to run at 90° to the panel.

SB-Series



SBH1, SBH3





w





| ТҮРЕ | Width (W) | Length (L) | Length (L2) | Height (H) | Height (H2) | Stud Ø | Strap Width max. (G) | Material | Colour | Article-No. |
|------|--------------|---------------|----------------|---------------|----------------|-----------|-------------------------|----------|------------|-------------|
| SBH1 | 12.5 | 26.8 | 9.0 | 13.9 | 15.9 | 5.0 | 8.5 | PA66 | Black (BK) | 151-26150 |
| SBH2 | 12.5 | 26.8 | 9.0 | 14.0 | 12.5 | 5.0 | 8.5 | PA66 | Black (BK) | 151-26250 |
| SBH3 | 12.5 | 26.8 | 9.0 | 18.0 | 15.9 | 5.0 | 8.5 | PA66 | Black (BK) | 150-18900 |

All dimensions in mm. Subject to technical changes.

CT-Series



| ТҮРЕ | Width (W) | Length (L) | Height (H) | Height (H2) | Stud Ø | Strap Width max. (G) | Material | Colour | Article-No. |
|-------|--------------|---------------|---------------|----------------|-----------|-------------------------|----------|------------|-------------|
| CTMS5 | 10.0 | 19.0 | 14.5 | 5.3 | 5.0 | 5.0 | PA66 | Black (BK) | 151-03301 |



Fixing elements for Parallel Routing, twistable **DSWS-Series**

These fixing element for parallel routing can be used where bundles need separation from each other combined with the necessary functionality to support moving harnesses.

Features and benefits

- For parallel routing of bundles that can be twisted 360° even after setting
- Secure alignment to the bundle due to H-design
- Cable tie head can be moved after bundling
- For cable ties up to 12.7 mm wide
- For post-installation of bundles



DSWS4





The spacers can be easily rotated by hand, allowing the bundles to be crossed and rotated at any angle.

| ТҮРЕ | Width (W) | Length (L) | Height (H) | Bundle Ø min. | Bundle Ø max. | Material | Colour | Pack Cont. | Article-No. |
|--------|--------------|---------------|---------------|------------------|------------------|-------------|------------|---------------|-------------|
| DSWS4 | 20.3 | 23.6 | 18.0 | 6.0 | 76.0 | PA66HS, POM | Black (BK) | 50 | 151-00644 |
| D3VV34 | 20.3 | 23.6 | 18.0 | 6.0 | 76.0 | PA66HS, POM | Black (BK) | 2,200 pcs. | 151-06500 |
| DSWS5 | 25.4 | 40.6 | 23.6 | 16.0 | 152.0 | PA66HS | Black (BK) | 50 pcs. | 151-06502 |

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

LOK04

Whenever there is a need of running two or more cables in parallel the LOK04 fixing base would be an ideal and simple solution.

Features and benefits

- LOK04 for running bundles with a distance in parallel
- Can be used with cable ties up to 9 mm cable tie width



LOK04



LOK04 ring for parallel routing.

| ТҮРЕ | Width (W) | Length (L3) | Strap Width max. (G) | Material | Colour | Article-No. |
|-------|--------------|----------------|-------------------------|----------|------------|-------------|
| LOK04 | 16.0 | 4.0 | 9.0 | PA66 | Black (BK) | 151-80400 |

Cable Ties and Fixings **Fixing Elements**



Fixing Base

LOK-Series

The LOK mounts, in conjunction with a cable tie, can be used either indoors or outdoors for a diverse range of applications from holding climbing plants, to securing cables running between buildings.

Features and benefits

- LOK01 LOK05 usable with any cable ties up to 9 mm wide
- Suitable for a wide range of materials, including concrete, brick, block and wood
- Installed by knocking into 7 mm or 8 mm diameter hole
- LOK01B is designed for soft brickwork and 6 mm holes

Material specification

please see page 26.

• Elongated head of LOK05 for setting bundles at a distance from brickwork



LOK01 fixing bases for indoor and outdoor use.



The whole LOK-Series can ideally be combined with cable ties up to 9 mm cable tie width.



LOK01 fixing base (front view)

LOK05 fixing base (front view)

L



LOK01 pushed into a wall bore hole.

| ТҮРЕ | Width (W) | Length (L) | Length (L2) | Length (L3) | Ø (D) | Strap Width max. (G) | Hole Ø (FH) | Material | Colour | Article-No. |
|--------|--------------|---------------|----------------|----------------|----------|-------------------------|----------------|---------------|------------|-------------|
| LOK01B | 12.0 | 30.0 | 6.5 | 2.5 | 7.2 | 9.0 | 6.0 | PA6HIR | Black (BK) | 151-80500 |
| LOK01S | 12.0 | 34.0 | 6.5 | 2.5 | 9.2 | 9.0 | 7.0 - 8.0 | PA6HIR | Black (BK) | 151-80600 |
| | 12.0 | 44.0 | 6.5 | 2.5 | 9.2 | 9.0 | 7.0 - 8.0 | PA11 | Black (BK) | 151-01277 |
| LOK01 | 12.0 | 44.0 | 6.5 | 2.5 | 9.2 | 9.0 | 7.0 - 8.0 | PA6HIR | Black (BK) | 151-80110 |
| LOK05 | 12.0 | 49.0 | 12.5 | 2.5 | 9.2 | 9.0 | 7.0 - 8.0 | PA6HIR | Black (BK) | 151-80700 |

Rivet Mount

TY5-Series

The TY Fixings are ideal for use where a high pull out force is required (eg. in the aircraft industry). The two piece 'wedge' ensures that once installed the mounts will not come away from the panel. Particularly designed for areas with restricted access.

Features and benefits

- Quick installation
- Two-piece wedge
- Easy insertion
- Firmly fixes wide variety of cable ties



TY5 Wedge Base Socket.



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32,5



TY5K5 Rivet Mount

H H2 W TY5K3/5 Rivet Mount





| ТҮРЕ | Width (W) | Length (L) | Length (L2) | Height (H) | Height (H2) | Strap Width max. (G) | Hole Ø (FH) | Panel Thickness | Material | Colour | Article-No. |
|---------|--------------|---------------|----------------|---------------|----------------|-------------------------|----------------|--------------------|----------|--------------|-------------|
| TY5K2 | 12.0 | 14.0 | 10.0 | 7.8 | 9.5 | 5.5 | 4.9 - 5.3 | 1.0 - 5.0 | PA66HS | Natural (NA) | 152-11209 |
| TY5K1 | 14.8 | 15.0 | 11.0 | 18.3 | 9.5 | 5.4 | 5.0 - 5.3 | 1.0 - 3.0 | PA66HS | Natural (NA) | 152-51059 |
| TY5K5 | 17.8 | 18.0 | 11.0 | 38.3 | 9.5 | 5.8 | 5.0 - 5.3 | 1.0 - 3.0 | PA66HS | Natural (NA) | 152-55059 |
| TY5K4 | 22.0 | 14.0 | 10.0 | 175.0 | 12.5 | - | 5.9 - 6.4 | 2.0 - 8.0 | PA66HS | Natural (NA) | 152-11409 |
| TY5K3/5 | 22.0 | 18.0 | 14.0 | 10.0 | 9.5 | 9.3 | 4.9 - 5.3 | 1.0 - 5.0 | PA66HS | Natural (NA) | 152-11359 |
| TY5K3 | 22.0 | 18.0 | 14.0 | 10.0 | 12.5 | 9.3 | 5.9 - 6.4 | 2.0 - 8.0 | PA66HS | Natural (NA) | 152-11309 |

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Blind Plugs

Products were developed especially for the automotive industry. Application in trunks, doors, wheel housing and dash panels. Parts are even used for optical reasons.

Features and benefits

- Easy assembly without the need of a tool
- Disc of the part covers the hole and minimises ingress of dust, dirt and water
- Standard geometry for example fir tree or arrowhead



Blindplugs are available in different dimensions and materials.



Material specification please see page 26.

| ТҮРЕ | Drawing | Hole Ø (FH) | | | Colour | Article-No. |
|--------------------|---------|----------------|---------------|-----------|--------------|-------------|
| TRIM PLUG 5 | | 5.0 | 4.0 - 4.5 | PA66HIR | Natural (NA) | 151-00333 |
| DUIC11 | | 11.0 | 4.0 - 6.0 | PA66HIRHS | Natural (NA) | 151-00485 |
| PLUG11 | | 11.0 | 4.0 - 6.0 POM | | Black (BK) | 151-00360 |
| | Commune | 5.0 - 5.5 | 2.5 - 26.0 | PA6HIR | Black (BK) | 151-00399 |
| PLUG5.5 | | 5.0 - 5.5 | 2.5 - 26.0 | PA6HIR | Grey (GY) | 151-00401 |
| PLUG SQ8x8 | | 7.6 - 8.0 | 1.0 - 3.0 | PA66HIR | Black (BK) | 151-00415 |
| PLUG5 WITH OPENING | | 5.05 - 5.25 | 4.8 - 5.2 | PA66HIRHS | Black (BK) | 151-00419 |
| | | 10.2 | 2.0 - 12.0 | PE | Black (BK) | 151-00426 |
| PLUG10 | | 10.2 | 2.0 - 12.0 | PE | Grey (GY) | 151-00488 |
| BPFT6XXL | | 6.3 - 7.0 | 6.0 - 17.0 | PA66HIRHS | Natural (NA) | 151-01160 |
| PLUGFT6XL | | 6.5 - 7.0 | 0.7 - 18.0 | PA46 | Brown (BN) | 151-00428 |
| | | 6.5 - 7.0 | 0.7 - 18.0 | PA66HIR | Black (BK) | 241-00002 |
| | | 6.5 - 7.0 | 0.7 - 18.0 | PA66HIR | Grey (GY) | 241-00001 |
| PLUGFT7 | | 7.05 - 7.25 | 2.5 - 8.0 | PA6HIR | Black (BK) | 151-00414 |

All dimensions in mm. Subject to technical changes.

HellermannTyton 191



Snapper Hose Clips for Tubes and Harnesses SNP-Series

SNP range may replace metal hose clamps. Snapper can be used in markets as diverse as automotive, agriculture, white goods, venting systems, pumps and hydraulic systems to medical engineering.

Features and benefits

- Releasable and reusable plastic hose clamps
- Self-locking
- Releasable by giving a lateral movement to the 'head'
- Installation by hand possible
- Installation with processing tool for a secure tensioning
- For higher operating temperatures: Glass Filled PA66





SNP - Snapper Hose Clip (front view)

SNP Clip (side view)



SNP - Snapper Hose Clips range.



Material specification please see page 26.

| | Bundle Ø | Bundle Ø | Width | Width | Width | Wall | | | |
|----------|----------|----------|----------|----------|-------|------|----------|--------------|-------------|
| TYPE | min. | max. | (W) min. | (W) max. | (W2) | (WT) | Material | Colour | Article-No. |
| SNP1 | 6.0 | 6.5 | 8.33 | 11.73 | 3.8 | 1.00 | POM | White (WH) | 190-00022 |
| JNFT | 6.0 | 6.8 | 8.40 | 11.70 | 3.8 | 1.00 | PA66GF13 | Black (BK) | 192-10010 |
| SNP1.25 | 7.1 | 7.7 | 10.57 | 12.62 | 3.8 | 1.10 | PA66GF13 | Black (BK) | 190-00029 |
| SNP2(E) | 8.7 | 10.0 | 17.00 | 21.00 | 6.0 | 1.50 | POM | Natural (NA) | 191-10029 |
| SNP2 | 9.3 | 10.5 | 12.20 | 17.60 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 192-10020 |
| SNP3(E) | 10.0 | 11.4 | 19.00 | 25.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10039 |
| SNP4 | 10.4 | 11.7 | 13.30 | 19.20 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 192-10040 |
| SNP4(E) | 10.8 | 12.3 | 19.00 | 23.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10049 |
| SNP7 | 11.4 | 13.7 | 18.40 | 28.50 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 192-10070 |
| SNP6 | 11.7 | 13.3 | 14.70 | 21.60 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 192-10060 |
| SNP6(E) | 12.0 | 13.7 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10069 |
| SNP8 | 13.1 | 15.0 | 16.70 | 24.90 | 5.7 | 1.70 | PA66GF13 | Black (BK) | 192-10080 |
| SNP8(E) | 13.7 | 15.3 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10089 |
| SNP10 | 14.5 | 16.6 | 17.60 | 26.90 | 5.9 | 1.80 | PA66GF13 | Black (BK) | 192-10100 |
| SNP10(E) | 15.0 | 16.8 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10109 |
| SNP12A | 15.6 | 18.3 | 21.00 | 29.90 | 5.9 | 1.80 | PA66GF13 | Black (BK) | 190-00254 |
| SNP12(E) | 16.8 | 18.4 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10129 |
| SNP14(E) | 18.1 | 19.9 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10149 |
| SNP14A | 18.5 | 21.0 | 20.90 | 30.10 | 5.9 | 1.80 | PA66GF13 | Black (BK) | 190-00300 |
| SNP16 | 19.1 | 21.7 | 19.90 | 30.80 | 5.8 | 1.50 | PA66GF13 | Black (BK) | 192-10160 |
| SNP16(E) | 19.9 | 21.7 | 19.00 | 24.00 | 6.0 | 1.90 | POM | Natural (NA) | 191-10169 |
| SNP18A | 19.9 | 23.6 | 24.00 | 35.50 | 5.9 | 1.80 | PA66GF13 | Black (BK) | 190-00258 |
| SNP18(E) | 21.4 | 23.0 | 16.00 | 22.00 | 6.0 | 1.90 | POM | Natural (NA) | 191-10189 |
| SNP19 | 22.3 | 25.3 | 24.40 | 36.10 | 5.9 | 1.70 | PA66GF13 | Black (BK) | 190-00090 |
| SNP20(E) | 22.7 | 24.7 | 20.00 | 26.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10209 |

Snapper Hose Clips for Tubes and Harnesses

SNP-Series



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SNP Snapper are also available on request in material PA66HS and PA46.

Snapper tools please see page 566.

SNP - Snapper Hose Clip SNP Clip (front view) (side view)

| ТҮРЕ | Bundle Ø min. | Bundle Ø max. | Width (W) min. | Width (W) max. | Width (W2) | Wall (WT) | Material | Colour | Article-No. |
|----------|------------------|------------------|-------------------|-------------------|---------------|--------------|----------|--------------|-------------|
| SNP22 | 23.7 | 27.4 | 23.90 | 37.70 | 6.0 | 1.80 | PA66GF13 | Black (BK) | 192-10220 |
| SNP22(E) | 25.3 | 27.3 | 20.00 | 26.00 | 6.0 | 1.60 | POM | Natural (NA) | 191-10229 |
| SNP24 | 25.8 | 29.2 | 26.50 | 39.40 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 192-10240 |
| SNP24(E) | 26.5 | 28.6 | 20.00 | 26.00 | 6.0 | 2.00 | POM | Natural (NA) | 191-10249 |
| SNP28 | 28.8 | 33.2 | 26.00 | 42.10 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 190-00127 |
| SNP32(E) | 30.3 | 33.1 | 27.00 | 34.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10329 |
| SNP32 | 31.2 | 35.8 | 27.30 | 44.40 | 7.3 | 1.80 | PA66GF13 | Black (BK) | 192-10320 |
| SNP34(E) | 32.5 | 35.1 | 27.00 | 34.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10349 |
| SNP36(E) | 34.8 | 37.1 | 27.00 | 34.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10369 |
| SNP38(E) | 36.7 | 38.9 | 27.00 | 34.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10389 |
| SNP36 | 37.8 | 44.0 | 32.41 | 53.80 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 192-10360 |
| SNP42(E) | 41.0 | 44.2 | 32.00 | 45.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10429 |
| SNP38 | 41.0 | 48.1 | 35.60 | 57.50 | 7.3 | 1.80 | PA66GF13 | Black (BK) | 192-10380 |
| SNP42N | 44.5 | 52.2 | 35.70 | 59.80 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 191-00005 |
| SNP50(E) | 48.8 | 52.0 | 32.00 | 45.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10509 |
| SNP50 | 52.2 | 58.6 | 36.50 | 60.40 | 7.3 | 1.70 | PA66GF13 | Black (BK) | 192-10500 |
| SNP58(E) | 56.7 | 59.2 | 31.00 | 39.00 | 7.5 | 2.00 | POM | Natural (NA) | 191-10589 |

All dimensions in mm. Subject to technical changes.

193



Plastic Rivets

TY-Series

These simple-to-use plastic rivets are ideal for improving productivity in the working environment, saving time and money over more conventional fixing methods - ideal for fixing panels or components to panels in a wide range of industries from automotive to panel building.

Features and benefits

• One Piece

- Simply push pin into body of rivet
- TY3P1 and TY8P1 pins inserted using rivet placement tool
- TY8P2 has 'mushroom' head so pin is simply hammered in
- TY8P2 consists of two unattached parts

Material specification

please see page 26.



Plastic Rivet TY8P1 in application.



Height Height Height ø ø ø ø TYPE (H) (H2) (H3) (D) (D2) (D3) (D4) Material Colour Article-No. 7.5 6.0 5.3 6.0 3.0 1.7 PA66 Black (BK) 241-11310 _ **TY3P1** 7.5 6.0 5.3 241-11319 6.0 3.0 1.7 -PA66 Natural (NA) 10.0 8.0 7.5 PA66 Black (BK) 241-11810 8.0 4.0 2.6 _ TY8P1 10.0 8.0 7.5 8.0 4.0 2.6 PA66 Natural (NA) 241-11819 _ 10.0 8.0 11.5 8.0 4.0 2.6 8.0 PA66 Black (BK) 241-11820 TY8P2 11.5 8.0 4.0 PA66 Natural (NA) 241-11829 10.0 8.0 2.6 8.0



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