

expressMARK



Identification Solutions

Military Grade Heat Shrink Sleeves

Zero Halogen Heat Shrink Sleeves

UV Stabilised Cable Markers

On-site Printing Systems

Stainless Steel Markers

Engraved Labelling



Identification with a mark of difference!

expressMARK



Identification with a mark of difference !

expressMARK have selected leading products from the marketplace and made them available in one easy to follow product range.

Combining the best products in terms of cable and wire marking systems, stainless steel identification, high performance tapes and labels as well as engraved labels has been our priority.

expressMARK is a proven product range that is backed by technical data and test results that leave you in no doubt that these products will withstand the environment in which you operate.

All industries; including construction, electrical contracting, marine, military, transportation, renewable energy, petro-chemical, rail and oil & gas have a need for high performance identification products designed to meet and withstand the harshest of environments.

expressMARK meets these demands!



The difference ?

- **Over 25 years experience with identification products**
- **External & internal based identification specialists**
- **In-the-field technical support team**
- **Free installation and support of on-site systems**
- **In-house pre-print department**
- **All services are provided by expressMARK - no third parties**
- **People you can trust. Products you can rely on.**



expressMARK





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Stainless steel marking solutions for hostile environments

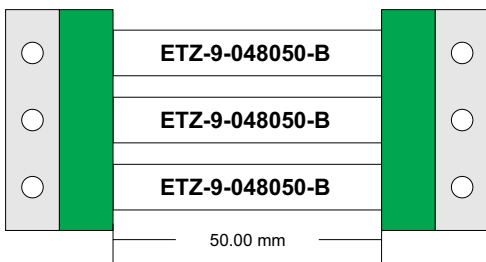


Identification with a mark of difference!

DESCRIPTION:	Thin wall, zero-halogen, low smoke, low toxicity, radiation cross-linked, UV stabilised polyolefin heat-shrinkable tubing, assembled as cut sleeves organized in a ladder format.
USE:	Identification of cables in applications where LFH characteristics are critical. The zero halogen material coupled with low smoke and low toxic fume emissions make this product ideal for use in enclosed spaces such as mass transit, marine and industrial installations.
SERVICE TEMPERATURE:	30°C to +105°C (-22°F to +221°F). Minimum shrink temperature: 135°C (275°F)
COLOURS:	White or yellow standard. Other colours available upon request with MOQ conditions.
FLAMMABILITY:	Self-extinguishing (ASTM D2671 Procedure B)
OXYGEN INDEX:	34% minimum (BS EN ISO 4589-2 [1996]).
SMOKE EMISSION:	0.017 maximum (BS 6853 [1999] Annex D.8.3).
TOXIC FUME:	< 1 (BS 6853 [1999] Annex B – Mass based test method - NF X 70-100)
LUL TOXIC FUME:	No Halogens, no P, S, or N sources above trace level (LUL E1042:A6 [2002]).
TENSILE STRENGTH:	7MPa minimum
UV RESISTANCE:	Tensile Strength >90% & Ultimate elongation >40% of original value after 1000 hours. (base polymer) (ASTM G53: UVA [100% dry cycle] ; UVB [8 hours dry/4 hours wet cycle])
PRINT PERMANENCE:	Adheres to SAE-AS81531 4.6.2 (50 rubs). Fluid resistance to MIL-STD-202F method 215J
FLUID RESISTANCE:	See below table for test results
THREAT	TEST / EFFECT
Xylene/butylacetate/cyclohexan	(one mix [Paint Stripper]) - 10 wipes dry tissue - PRINT LEGIBLE
Locomotive Diesel	10 wipes dry tissue - PRINT LEGIBLE
Tunnel Dust / White Spirits	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Water	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Tunnel Dust / Oil (50%/50%)	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Tunnel Dust / Water (50%/50%)	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Diesel	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Grease	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Glycol rail de-icer (50% water)	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Cleaning Solvent	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Surface Cleaner (PGP500)	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Graffiti Remover Gel	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
Chewing Gum Remover Gel	LUL C3349 (72 hours, 20 strokes dry tissue) - PRINT LEGIBLE
IRM 902 Oil	pr EN50343 (24 hours at 50°C (122°F) 10 wipes) - PRINT LEGIBLE
Hydrochloric acid 5% solution	pr EN50343 (1 minute at 23°C (73°F) 10 wipes) - PRINT LEGIBLE
Sodium Hydroxide 5% solution	pr EN50343 (1 minute at 23°C (73°F) 10 wipes) - PRINT LEGIBLE
Heat Ageing	pr EN50343 (240 hours at 120°C, 10 wipes) - PRINT LEGIBLE
Aircraft Fuel (ISO1817 Liquid B)	24 hours at 40°C (104°F), then 25 strokes dry tissue; IEC 60684-2 - PRINT LEGIBLE
Silicone Fluid (S1714)	24 hours at 50°C (122°F), then 25 strokes dry tissue; IEC 60684-2 - PRINT LEGIBLE
Propan-2-ol	24 hours at 23°C (73°F), then 25 strokes dry tissue; IEC 60684-2 - PRINT LEGIBLE

*4MPa TS & 90% UE retained

Product Layout Example



Zero Halogen Heat Shrink Sleeves





UV Stable Zero Halogen Tie-on Cable Markers

expressMARK ETC cable markers are designed to be the perfect solution for fast, permanent and cost effective marking of cables, conduit, pipes and valves. The die-cut cable tie slots make application of printed markers both quick and simple.

The product is manufactured from industry leading LFH material and therefore makes them ideal for applications where low smoke, low toxicity and zero halogen are critical. The UV stability of the product has been rigorously tested to the equivalent of 18 years exposure.

Temperature Ratings

Operating temp. range -40°C to +105°C -40°F to +221°F

Specifications & Approvals

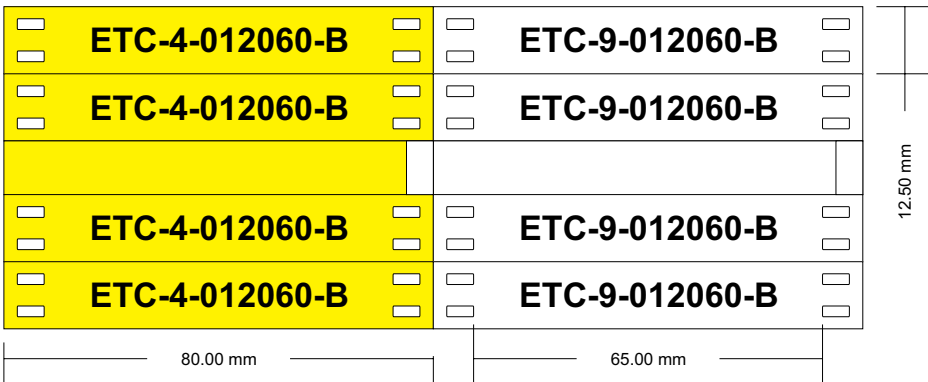
Military	SAE AS5942 MIL-STD-202F 215J
Industry	UL 224 (clause 14) BS 4G 198 Part 3 ASTM D 2671



Ordering Information

Part Number	Type	Colour	Dimensions (mm)			Printable Area (mm)			Pack Size
			Height	x	Length	Height	x	Length	
ETC-9-012060-B	ETC	WHITE	12.5	x	80	10.5	x	65	200pcs
ETC-9-025080-B	ETC	WHITE	25.0	x	100	23.0	x	80	500pcs
ETC-9-060080-B	ETC	WHITE	60.0	x	100	58.0	x	80	250pcs
ETC-4-012060-B	ETC	YELLOW	12.5	x	80	10.5	x	65	200pcs
ETC-4-025080-B	ETC	YELLOW	25.0	x	100	23.0	x	80	500pcs
ETC-4-060080-B	ETC	YELLOW	60.0	x	100	58.0	x	80	250pcs

Product Layout Example



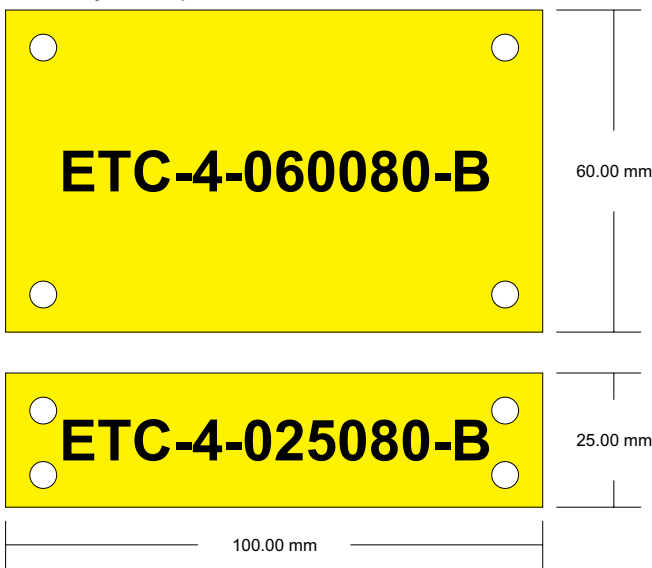
UV Stable Zero Halogen Tie-on Cable Markers

Want markers, but don't have a printer on site ?

- e** expressMARK can also offer a pre-print service
- a** available for all products - no minimum quantity
- s** simple, quick response time and all hassle free
- y** you send the data, we print the markers - **easy!**

DESCRIPTION:	Continuous strip, low fire hazard, UV stabilised, cross linked polyolefin sheet, formed into punched tie on cable markers. Markers have perforated edges for easy removal.
USE:	Identification of larger cables and wire bundles. Markers are printed by computer-based printing and attached using cable ties. Ideal for applications where low fire hazard characteristics (low smoke, low toxicity and low flammability) are critical.
COLOURS:	White or yellow as standard.
OXYGEN INDEX:	34% minimum (BS ISO 4589-2[1996])
SMOKE EMISSION:	0.017 maximum (BS 6853 [1999] Annex D.8.3).
TOXIC FUME:	R <1 (BS 6853[1999] Annex D.8.3 - Mass based test method NF X 70-100).
LUL TOXIC FUME:	No Halogens, no P, S or N sources above trace level (LUL E1042:A2 [1996]).
TENSILE STRENGTH:	7MPa minimum
MOULD GROWTH:	Rating 2 maximum (BS 2011 Part 2.1J)
COLOUR FASTNESS:	Hue matches original marker; print legible (BS 2782 Part 5 Method 540B)
UV RESISTANCE:	Tensile Strength >90% & Ultimate elongation >40% of original value after 1000 hours. (base polymer) (ASTM G53: UVA [100% dry cycle] ; UVB [8 hours dry/4 hours wet cycle])
PRINT PERMANENCE:	Meets the requirements of (SAE AS5942 - 50 rubs)
FLUID RESISTANCE:	See below table for test results
THREAT	TEST & EFFECT
Locomotive diesel	10 wipes dry tissue - PRINT LEGIBLE
Paint stripper wipe	24 hours at 23°C (73°F) then 25 strokes dry tissue; IEC 60684-2 - PRINT LEGIBLE
Phosphate Ester based ISO 1817 liquid 103	24 hours at 70°C (104°F) then 25 strokes dry tissue; IEC 60684-2 - PRINT LEGIBLE
Diesel	24 hours at 23°C (73°F) then 25 strokes dry tissue; IEC 60684-2 - PRINT LEGIBLE
Propan-2-ol	24 hours at 23°C (73°F) then 25 strokes dry tissue; IEC 60684-2 - PRINT LEGIBLE

Product Layout Example



● ● ● ● ● UV Stable Zero Halogen Tie-on Cable Markers



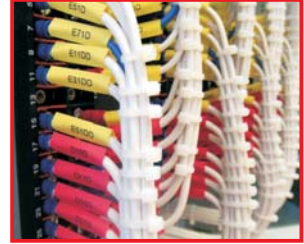
Pre-print Identification Service

expressMARK have a team in place dedicated to producing pre-printed identification products, from simple individual markers to large complex kits.

All products are delivered to you through a service, designed to meet your demands and ensure a prompt turnaround.



- Heat shrinkable sleeves
- Tie-on cable markers
- Self laminating “wrap around” labels
- Polyester & vinyl labels
- Barcodes, logos, numerical and alpha-numerical text
- From individual markers to complex sets
- No minimum order quantity



Order

Simply email your data to be printed, along with your order number. Advise of any packing instructions such as markers are to be packed and dispatched by set, batch, field area or alpha-numerical order.



Print

Markers are then printed and catalogued as per your instruction. Catalogued markers lead to ease of pickability and improved productivity at your site, when presented in this organised fashion.



Deliver

With the ability to deliver worldwide, this service requires efficient, service driven people to ensure on time deliveries. As such our dedicated team will ensure we strive to meet your requirements.

Pre-print Identification Service

expressMARK products featured in this catalogue can be supplied to you pre-printed with all your relevant data.

We also have many more products available through our pre-print service, such as self laminating labels, coloured heat shrink sleeves, bespoke labels, vinyls and polyester signs and more.

Please find below part numbers used for the standard range of expressMARK products, however if you would like details of other products available or would like to discuss your specific requirements or suitability of a product for a particular application then please do not hesitate to contact us.



Ordering Information

Pre-printed heat shrinkable sleeves

Order code example: **PP - ETM - 9 - 048050**

Pre-printed	Product Family	Colour	Diameter	Length
PP	ETM = military grade	9 = white	024 = 2.4mm	050 = 50mm
		4 = yellow	032 = 3.2mm	025 = 25mm
	ETZ = zero halogen	048 = 4.8mm	016 = 16mm	
		064 = 6.4mm	012 = 12mm	
		095 = 9.5mm		
		127 = 12.7mm		
		190 = 19.0mm		
		254 = 25.4mm		
		381 = 38.1mm		

Pre-printed tie-on cable markers

Order code example: **PP - ETC - 4 - 012060**

Pre-printed	Product Family	Colour	Height	Length
PP	ETC = cable markers	9 = white	012 = 12.5mm	060 = 60mm
		4 = yellow	025 = 25.0mm	080 = 80mm
		060 = 60.0mm		

Available options

PP-ETC-(COLOUR)-012060

PP-ETC-(COLOUR)-025080

PP-ETC-(COLOUR)-060080



expressMARK



On-site Printing Systems

Printers

The expressMARK thermal transfer printer series is designed for use with the full range of expressMARK thermal identification products.

With both 300dpi and 600dpi print-head options available, you can be sure of outstanding quality for all your text, barcode and image requirements.

The lightweight and small foot print designs, coupled with high print accuracy, makes the expressMARK on-site printing systems among the very best available today.

Ribbons

When used in conjunction with the expressMARK thermal transfer printers our specially formulated ribbons meet the most rigorous of industry standards in relation to mark permanence.

Software

The dedicated expressMARK Wintotal labelling software is supplied pre-loaded with the full expressMARK product range. This user friendly WYSIWYG (what you see is what you get) platform makes the production of markers extremely fast and efficient.



Call us to arrange a free demonstration and to discuss the very latest on-site printer options

- Free installation and support of on-site printing systems
- Free on-site training of all your relevant personnel
- Over 25 years experience with identification products
- External & internal based identification specialists
- A dedicated "in-the-field" technical support team
- All services are provided by expressMARK - no third parties
- People you can trust. Products you can rely on.

On-site Printing Systems



What if my pc crashes or we move location?

- e** expressMARK with our free system support
- a** a team of dedicated identification specialists
- s** support when you need it, where you need it
- y** your peace of mind, our commitment - **easy!**



Engraved Labels Solution

Answering the needs of today's engraved labels, expressMARK engraved labels feature a classic, yet durable, matte finish. Its enhanced heat tolerance and UV stable colours make it the first choice for engraved labels. The materials flexibility is far superior to traditional traffolyte materials and it is easy to understand why this product has become an industry wide standard.



- Labels, plates, tags and markers
- Valve and disc tags
- Name plates
- Junction box and control panel labels
- Cable tray node point labels
- Large fascia and mimic plates
- Switch and push button labels
- One-off specials to large complex projects
- Supplied catalogued in an organised fashion



LM-204 	LM-402 	LM-704 	LM-407 	LM-206 	LM-602 	LM-607
WHITE/ BLACK	BLACK/ WHITE	YELLOW/ BLACK	BLACK/ YELLOW	WHITE/ RED	RED/ WHITE	RED/ YELLOW
LM-205 	LM-512 	LM-517 	LM-552 	LM-382 	LM-932 	LM-612
WHITE/ SKY BLUE	SKY BLUE/ WHITE	SKY BLUE/ YELLOW	PATRIOT BLUE/ WHITE	CHINA BLUE/ WHITE	GREEN/ WHITE	ORANGE/ WHITE
LM-622 	LM-582 	LM-972 	LM-912 	LM-312 	LM-417 	LM-413
CLARET/ WHITE	PURPLE/ WHITE	CELADON GRN/ WHITE	EVERGREEN/ WHITE	SMOKE GREY/ WHITE	BLACK/ GOLD	BLACK/ SILVER

- UV stable
- Permits fine engraving
- Adhesive backing
- Fixing holes
- Drilled easily on-site
- Any text, any size
- Logos & graphics
- Flexible
- Wide range of colours

Above colour chart is for guidance only.





Stainless Steel Markers

expressMARK SSM stainless steel markers are designed to meet the requirements of the most hostile environments.

All products are delivered to you through a dedicated service to meet your marking requirements and ensure prompt turnaround.

Simply email your data to us and we shall provide you with an order confirmation and due date for delivery.

Any instruction for packing of your markers, can be advised allowing us to identify if you require dispatched by set, batch, field area, alpha or numerical order. This leads to ease of pickability and improved productivity at your site as markers will be catalogued in an organised fashion.

Ordering Information

Part Number	Length (mm)	Width (mm)	Thickness (mm)	Material Grade
PP-MMP350-C316*	89.00	19.00	0.25	SS 316
PP-MMP350H-C316*	89.00	19.00	0.25	SS 316
PP-MMP350W38-C316*	89.00	10.00	0.25	SS 316
PP-MMP172W38-C316*	44.00	10.00	0.25	SS 316
PP-MT350W38-C316	89.00	10.00	0.25	SS 316
PP-MT172-C316	44.00	19.00	0.25	SS 316
PP-MMP350W17-Q	89.00	44.00	0.38	SS 304
PP-MT1D-Q	25.00	diameter	0.89	SS 304
PP-PM09512	95.00	12.00	0.89	SS 316
PP-PM07507	75.00	7.00	0.89	SS 316

* PP-MMP style cable markers come ready supplied with 2 x 316 grade stainless steel cable ties
Tie supplied is 200mm x 4.6mm (51mm Max bundle dia). Alternative tie lengths can be supplied upon request.

Test Results - All markers tested were laser marked with a CO2 laser at 600dpi

Test Solution	1 Hour	12 Hours	24 Hours	168 Hours
Organic				
Gasoline	No effect	No effect	No effect	No effect
Limoneene	No effect	No effect	No effect	No effect
Methyl Ethyl	No effect	No effect	No effect	No effect
N-Butanol	No effect	No effect	No effect	No effect
Mineral Spirits	No effect	No effect	No effect	No effect
Xylene	No effect	No effect	No effect	No effect
Acetone	No effect	No effect	No effect	No effect
Propylene	No effect	No effect	No effect	No effect
Ethanol	No effect	No effect	No effect	No effect
DMSO	No effect	No effect	No effect	No effect
Motor Oil	No effect	No effect	No effect	No effect
Acid / Bases				
Hydrochloric Acid	No effect	No effect	* note1	No effect
Nitric Acid (68%)	No effect	No effect	No effect	No effect
Sulphuric Acid (conc.)	No effect	No effect	No effect	No effect
Acetic Acid (99.5%)	No effect	No effect	No effect	** note 2
Hydrogen Peroxide (30%)	No effect	No effect	No effect	No effect
Sodium Hydroxide (25%)	No effect	No effect	No effect	No effect
Ammonium Hydroxide (20%)	No effect	No effect	No effect	No effect

*Acid dissolves steel tag and test was not run over 12 hours
After 1 hour acid dissolved 0.2767gms off of steel tag (4.7%) - no effect to mark
After 12 hours acid dissolved 1.8057gms off of steel tag (30.6%) - no effect to mark
**Acid discolours after approximately 96 hours - mark appears slightly discoloured

Material	SS304 & SS316 Grade
Colour	Metallic with black mark
Operating Temperature	-80 °C to +538°C
Mark Permanence	Legible after 50 rubs (SAE AS81531 4.6.2) Legible after 30 strokes (MIL-STD-202F M.215J)
Test Method	Markers were totally immersed in the test solutions and results recorded as per table.

- BOLD block letters
- Upper & lower case characters
- True Type fonts
- Data-matrix barcoding
- Logos and graphics
- Multiple lines of text
- Varying font sizes on same marker
- Single / one-off tags for adds, mods, changes
- Alphanumeric and sequential numbering ability
- Markers, plates, tags, faceplates, nameplates, cable ties, padlocks and many more

Don't see the size you need from the standard stock?

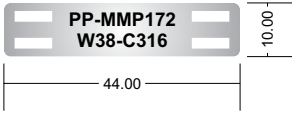
Bespoke labels can be made to order.

Call us to discuss your specific requirements!

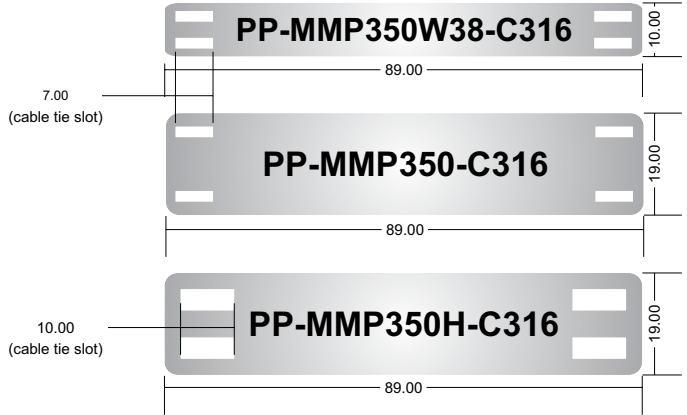
Have manufactured parts that need marking?

- e** expressMARK offer a part marking service
- a** any size, any shape, any thickness
- S** simple, quick response time and all hassle free
- y** you send us the parts, we mark them - **easy!**

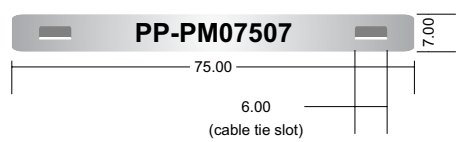
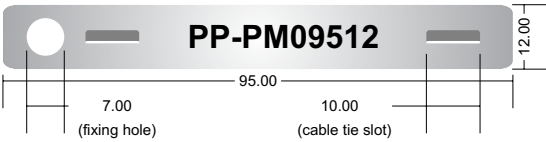
Stainless Steel “tie-on” Cable Markers



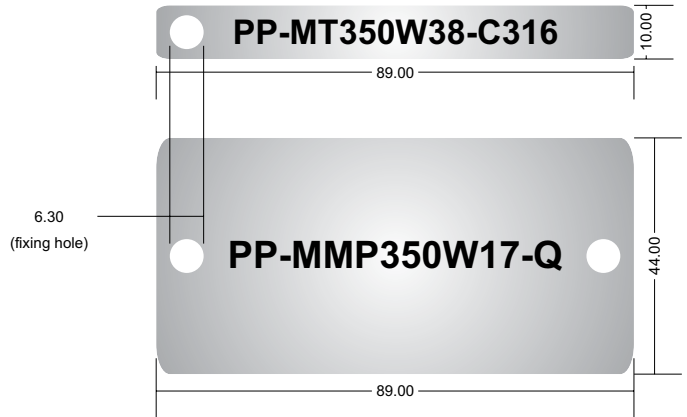
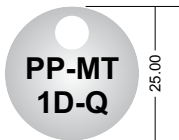
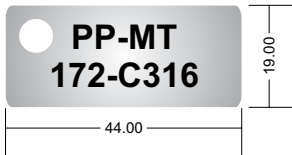
The MMP Style cable markers come supplied complete with 2 s/s cable ties 200 x 4.6mm



Stainless Steel “Raised Shoulder” Cable Markers



Stainless Steel Tags, Disc and Marker Plate (complete with 6.3mm fixing holes)



For a total solution in stainless steel cable ties make sure you ask for your copy of expressFIX

expressFIX

Cable Tie Solutions

- Roller Ball Cable Ties
- Buckle Lock Cable Ties
- Ladder Style Cable Ties
- Application Tooling
- Protective Channel Sleeving

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Identification with a mark of difference!