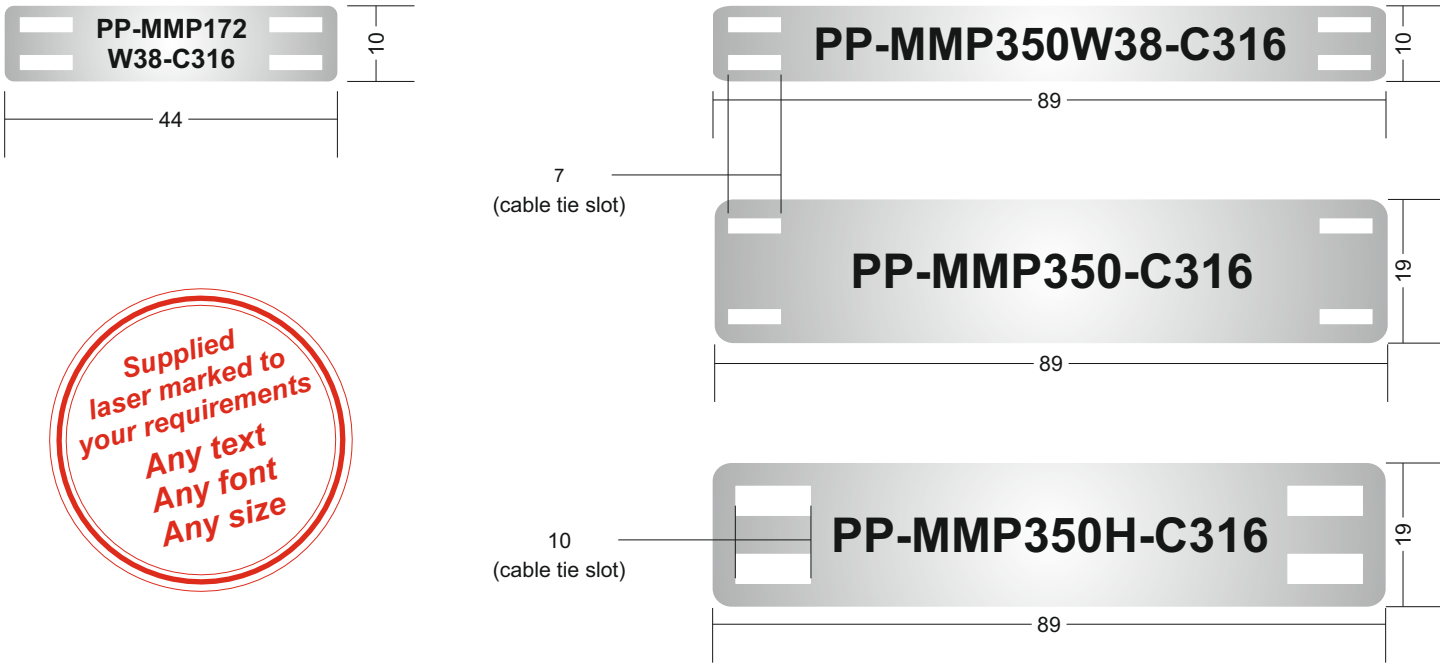
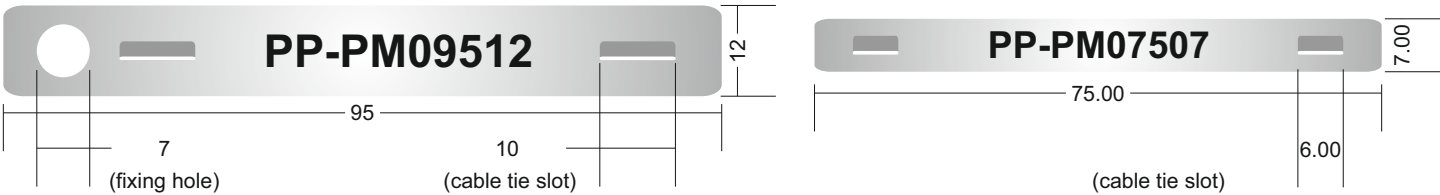


Stainless Steel Marking

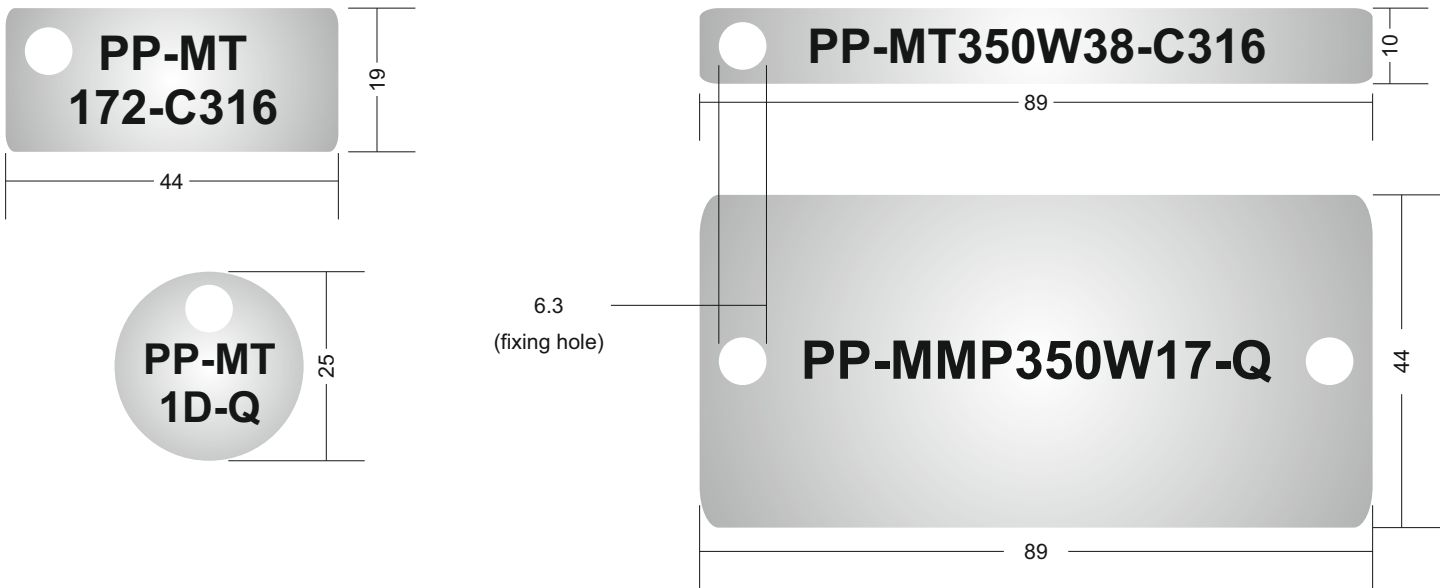
Stainless Steel 316 Cable Markers



Stainless Steel 316 “Permark” Raised Shoulder Cable Markers



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



Stainless Steel markers, plates and tags

Stainless steel markers meet the requirements of the most hostile environments. Combined with our laser marking process that has been developed over 20 years we deliver a final product that is among the very best to be found in the marketplace today. With a clear and legible black mark our products can be found on land, in the air and at sea. We serve many industry sectors including offshore oil and gas, chemical plants and refining, rail, mining, and aerospace.

Stainless Steel Marking

Ordering information - Blank or laser marked with your data

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



Laser Marking 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
Limonene	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

Technical Datasheet



Colour

Metallic

Material

Marine Grade SS316

Standard Grade SS304

Operating temperature

-80°C up to +538°C.

Specifications

SAE AS81531 4.6.2

(Legible after 50 rubs)

MIL-STD-202F M215J

(Legible after 30 strokes)

Marking Capabilities

Bold or standard letters

Lower and upper case letters

Choice of True Type Fonts

Lines, boxes and shapes

Logos and graphics

Data-matrix and barcode

Multiple lines of text

Variable font size on single marker

Test Results

Markers were laser marked with CO2 laser prior to testing.

Markers were totally immersed in each test solution and results recorded as per table opposite.

U.K. Office : Tel: +44 (0)141 941 3689

sales@expresselectrical.co.uk

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U.A.E. Office : Tel: +971 (0)4 887 5570

info@expresselectrical.ae

www.expresselectrical.ae

Stainless Steel Cutting & Marking Services

Stainless steel plates designed by you and manufactured by us.

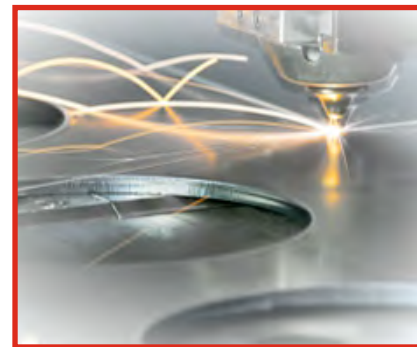
Our CNC laser delivers an unrivalled service in custom plate manufacturing.

We laser cut material up to 3mm thick in a choice of materials and finishes.

Radius corners, fixing holes, switch and lamp openings can all be achieved with ease.

A complete solution in stainless steel, from one-off plates to large scale projects.

All services are delivered in-house giving us complete flexibility to meet your demands.



Laser cutting

- Any size! Any shape!
- Metal, wood or plastic
- Up to 3mm thick stainless steel cutting capabilities
- SS316 and SS304 grades as standard
- Brushed, matt and polished finishes
- Hole cutting options available



Laser marking

- BOLD block letters, upper & lower case characters
- True Type fonts in single or multiple lines of text
- Data-matrix, barcoding, borders, logos and graphics
- Variable font styles and sizes on the same plate
- Single / one-off tags for adds, mods, changes
- Alphanumeric and sequential numbering ability



Part marking service

Have stainless parts that simply need marked?

Send us the parts and we'll mark them for you.

- e** xpress offer a part marking service
- a** ny size, any shape, any thickness
- s** imple, quick response time and all hassle free
- y** ou send us the parts, we mark them - **easy!**



Mechanical engraving & paint filling

- In-house capability with no minimum order quantity
- Option to combine laser marking and engraved paint filling

Laser marked stainless steel cable ties

We laser mark directly on to stainless steel cable ties.

A solution for weight or space saving where identification is required.

The tie can double as a fixing and marking solution in one.

