

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 after sales technical support team**
- **Free installation and training for on-site printing systems**
- **In-house pre-print department**
- **All services are provided by expressMARK - no third parties**
- **People you can trust. Products you can rely on.**





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On-site Printing Systems & Labelling Software

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 platform makes the production of markers extremely fast and efficient. If you would like more details relating to system requirements and compatibility please do not hesitate to contact us.



- **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.**

*Free demonstrations
available upon request*

*Ask about our
latest printer promotions*





T200-IDENT Thermal Transfer Printer

Get the most out of your Cable Identification and Labelling. The new all-in-one T200 Ident printer from expressMARK brings together a complete solution for your economy range of Thermal Transfer printing needs. The increased accuracy and the added flexibility of a movable Media sensor extends the variety of products approved for this printer while reducing the number of misprints. The touch screen provides an easier user interface for setup and enhances your using experience.

Key Features

- Light-weight
- Automatic calibration
- Simple ribbon and media loading procedure
- Superior print position accuracy
- Cutter & perforator options available
- Touch screen

Applications

- For heat shrinkable marker sleeves, cable markers, and labels
- Ideal for low to medium volume printing

Printer Dimensions

- Depth: 322 mm
- Height: 189 mm
- Width: 253 mm
- Weight: 4 kg

Electrical

- 100 to 240 V
- 50/60 Hz

Operating Conditions

- 5°C to 40°C (40°F to 104°F)
- 25 to 85 % non-condensing RH

Printing Method

300 dpi Thermal Transfer

Product Properties

- Print width max: 108 mm
- Label width: 10 to 116 mm (backing paper width)
- Label Height: 5 to 1,000 mm

Interfaces

- USB 2.0 (Full Speed)
- LAN 10/100 Base (Ethernet)
- USB master ports on the front and back of the printer

Product Offering & Part Numbers

- T200-IDENT-PRINTER (Standard printer)
- T200-IDENT-SWARE-PRINTER (Printer and Wintotal-5-dongle-pack)

Spare Parts & Accessories

- T200-IDENT-PRINthead (Print head)
- T200-IDENT-DR4-DRIVEROLLER (Drive roller)
- T200-IDENT-CUTTER (Cutter)
- T200-IDENT-PERFORATOR (Perforator – max. product width of 45 mm)

Printer Ribbons

• The recommended ribbon and product combination should be used at all times, ensuring the print quality and mark permanence consistency is maintained. See specific product pages for related ribbon part numbers or ask your sales engineer for more details.



TE3124 Thermal Transfer Printer

The TE3124 thermal transfer printer is our new, high performance, mid-range printer series designed for use with the full range of identification marker sleeves, cable markers and thermal transfer labels. The 600 dpi print head produces outstanding quality text, barcodes and graphic images. This light weight, high print accuracy printer is ideally suited to customers who experience a high volume of label requirements.



Key Features

- Approved to print entire range of identification products
- Ships with standard 600 dpi print head producing outstanding print quality and bar code clarity
- Light weight with small foot print
- Prints both small and large label with precision
- Ideal for small labels and 2.4 sized heat shrinkable marker sleeves
- Simple ribbon and media loading procedure

Applications

- For heat shrinkable marker sleeves, cable markers, and labels
- Ideal for medium to high volume printing

Printer Dimensions

- Depth: 446 mm
- Height: 274 mm
- Width: 242 mm
- Weight: 9 kg

Electrical

- 100 to 240 V
- 50/60 Hz

Operating Conditions

- 5°C to 40°C (40°F to 104°F)
- 25 to 85 % non-condensing RH

Printing Method

600 dpi Thermal Transfer

Product Properties

- Print width max: 105.6 mm
- Label width: 10 to 116 mm (backing paper width)
- Label Height: 5 mm minimum

Interfaces

- USB 2.0 (Full Speed)
- LAN 10/100 Base (Ethernet)
- Serial RS 232

Product Offering & Part Numbers

TE3124-PRINTER (Standard printer)

Spare Parts & Accessories

TE3124-PRINthead (Print head)

TE3124-PRINT-ROLLER (Drive roller)

TE-PRINTER-CUTTER (Cutter)

TE-PRINTER-PERFORATOR (Perforator – max. product width of 45 mm)

Printer Ribbons

- The recommended ribbon and product combination should be used at all times, ensuring the print quality and mark permanence consistency is maintained.
- See specific product pages for related ribbon part numbers or ask your sales engineer for more details.





T6112DS Double Sided Thermal Transfer Printer

The T6112DS double-sided thermal transfer printer, with its twin stacked print head design enables the device to print on both the front and back of ladder or continuous format heat-shrinkable marker sleeves in a single print operation. The light weight, easy to set up, high print accuracy T6112DS printer is specifically designed to meet the demands set out by customers with large volume print jobs of heat shrink markers. Optional perforator and cutter units are available.

Key Features

- Twin stacked print head assembly for simultaneous printing of front and back
- Capable of double-sided printing of ladder or continuous heat-shrink markers
- High level of print quality and image clarity
- Light weight, with a smaller footprint
- Automatic calibration
- Simple ribbon and media loading procedure
- High print position accuracy: Suitable for the smallest size heat-shrinkable marker sleeves

Applications

- For heat shrinkable marker sleeves
- Suitable for high volume printing

Printer Dimensions

- Depth: 554 mm
- Height: 395 mm
- Width: 248 mm
- Weight: 21 kg

Electrical

- 100 to 240 V
- 50/60 Hz

Operating Conditions

- 10°C to 35°C (50°F to 95°F)
- 30 to 85 % non-condensing

Printing Method

300 dpi Thermal Transfer

Product Properties

- Print width max: 105.6 mm
- Heat shrink sleeves from 2.4mm unshrunk diameter

Interfaces

- USB 2.0 (Full Speed)
- LAN 10/100 Base (Ethernet)

Product Offering & Part Numbers

T6112DS-PRINTER (Standard printer)

Accessories

TE-PRINTER-CUTTER (Cutter)

TE-PRINTER-PERFORATOR (Perforator – max. product width of 45 mm)

Printer Ribbons

- The recommended ribbon and product combination should be used at all times, ensuring the print quality and mark permanence consistency is maintained. See specific product pages for related ribbon part numbers or ask your sales engineer for more details.

expressMARK



Military Grade Heat Shrink Sleeves

expressMARK ETM sleeves are designed to meet the wire and cable marking needs of customers with high performance requirements. Made from durable, flame retardant, radiation crosslinked heat-shrinkable polyolefin, the marks are permanent immediately after printing and remain legible even when exposed to abrasion, aggressive cleaning solvents and military fuels & oils.

Temperature Ratings

Operating temp. range	-55°C to +135°C	-67°F to +275°F
Minimum recovery temp.	+85°C	+185°F
Maximum storage temp.	+40°C	+104°F

Specifications & Approvals

Military	SA-AMS-DTL-23053/5 classes 1 & 3 SAE AS81531 4.6.2 MIL-STD-202F 215J
Industry	UL Recognised - St'd 224, file E35586 CSA Certified - File 31929

Printers & Ribbons

TE3124-PRINTER with TMS-RJS-RIBBON-4RPSCE
T200-IDENT-PRINTER with TMS-RJS-RIBBON-4RPSCE
T212M-PRINTER with TMS-101-RIBBON-4RPSCE (also T208M)



Part Number	Type	Colour	Dimensions (mm)			Pack Size	Cable Range (mm ²)*		Recovered Diameter(mm)
			Diameter	x	Length		From	To	
ETM-9-024050-B	ETM	WHITE	2.4	x	50	1000pcs			0.79
ETM-9-032050-B	ETM	WHITE	3.2	x	50	1000pcs	0.50	to 1.00	1.07
ETM-9-048050-B	ETM	WHITE	4.8	x	50	1000pcs	1.00	to 4.00	1.58
ETM-9-064050-B	ETM	WHITE	6.4	x	50	1000pcs	4.00	to 6.00	2.11
ETM-9-095050-B	ETM	WHITE	9.5	x	50	1000pcs	6.00	to 16.00	3.18
ETM-9-127050-B	ETM	WHITE	12.7	x	50	1000pcs	16.00	to 35.00	4.22
ETM-9-190050-B	ETM	WHITE	19.0	x	50	1000pcs	35.00	to 120.00	6.35
ETM-9-254050-A	ETM	WHITE	25.4	x	50	250pcs	120.00	to 185.00	8.46
ETM-9-381050-A	ETM	WHITE	38.1	x	50	250pcs	185.00	to 400.00	19.05

(*BS 6231 Tri-Rated)

Alternative sleeve lengths

ETM-X-XXX 025 -X	2 x 25mm sleeves per 50mm strip
ETM-X-XXX 016 -X	3 x 16mm sleeves per 50mm strip
ETM-X-XXX 012 -X	4 x 12.5mm sleeves per 50mm strip

Colour options

ETM- 9 -XXXXXX-X	9	WHITE	Standard
ETM- 4 -XXXXXX-X	4	YELLOW	Standard
ETM- 0 -XXXXXX-X	0	BLACK	Special order
ETM- 2 -XXXXXX-X	2	RED	Special order
ETM- 3 -XXXXXX-X	3	ORANGE	Special order
ETM- 5 -XXXXXX-X	5	GREEN	Special order
ETM- 6 -XXXXXX-X	6	BLUE	Special order
ETM- 7 -XXXXXX-X	7	VIOLET	Special order
ETM- 8 -XXXXXX-X	8	GREY	Special order

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

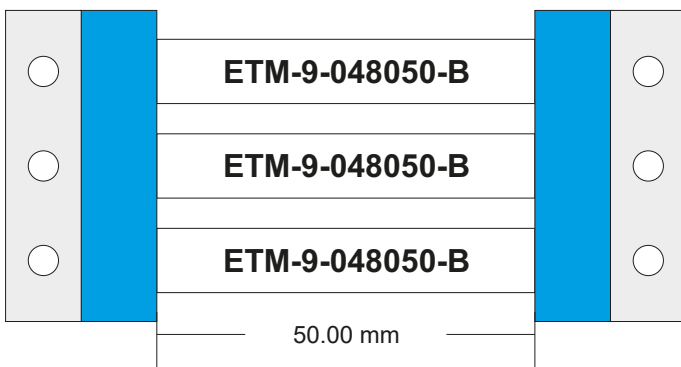
e xpressMARK can offer you our pre-print service
a vailable for all products with no minimum quantity
s imple, quick response time and all hassle free
y ou send the data, we print the markers - **easy!**



DESCRIPTION:	Thin wall, flame retarded radiation cross-linked modified polyolefin heat-shrinkable tubing, assembled as organised cut sleeves in a "ladder" configuration. 3:1 shrink ratio.
USE:	Identification of wires and cables by computer-based printing onto markers. Sleeves can also provide terminal insulation and strain relief. Suitable for a wide variety of applications, including aerospace, military and rail applications. Sleeves meet the material and performance requirements of SAE-AMS-DTL-23053/5 Class 1.
COLOURS:	White or yellow standard. Nine other colours available on request with MOQ conditions.
AGENCY APPROVALS:	UL recognised Standard 224 (File E35586); CSA certified (File 31929)
TENSILE STRENGTH:	10.3MPa maximum (SAE-AMS-DTL-23053/5)
ULTIMATE ELONGATION:	200% minimum (SAE-AMS-DTL-23053/5)
2% SECANT MODULUS:	172.4MPa maximum (SAE-AMS-DTL-23053/5)
LONGITUDINAL CHANGE:	-20% maximum (-5% maximum for TMS-SCE-2X products) (SAE-AMS-DTL-23053/5)
HEAT AGEING:	100% UE retained and print legible after 168 hours at 175°C (347°F)
HEAT SHOCK:	No cracking, dripping or flowing and print legible after 4 hours at 250°C (482°F)
LOW TEMP. FLEXIBILITY:	No cracking after 4 hours at -55°C (-67°F), 11mm (7/16 inch) mandrel bend.
MOULD GROWTH:	Print legible after 56 day incubation (ISO 846B) - tensile strength and ultimate elongation maintained after testing
FLAMMABILITY:	UL rated, tubing flame tested. Burn time 60 seconds max. (ASTM D2671 Procedure B)
WATER ABSORPTION:	0.5% maximum (ASTM D570)
COPPER MIRROR CORROSION:	Non-corrosive; no pitting or blackening of mirror after 16 hours at 175°C (347°F). (SAE-AMS-MIL-23053/5)
DIELECTRIC STRENGTH:	19.7MV/m minimum (ASTM D2671)
PRINT PERMANENCE:	Print legible after 20 rubs (SAE AS5942) Print legible after 30 strokes (MIL-STD-202F, method 215J)
FLUID RESISTANCE:	See below table for test results
THREAT	TEST & EFFECT
MIL-L-7808 lubricating oil	24 hours at 24°C (75°F) SAE AS5942 (20 rubs) - PRINT LEGIBLE
MIL-L-23699 lubricating oil	24 hours at 24°C (75°F) SAE AS5942 (20 rubs) - PRINT LEGIBLE
MIL-H-5606 hydraulic fluid	24 hours at 24°C (75°F) SAE AS5942 (20 rubs) - PRINT LEGIBLE
MIL-T-83133 aircraft fuel (JP-8)	24 hours at 24°C (75°F) SAE AS5942 (20 rubs) - PRINT LEGIBLE
Aviation gasoline (100/30)	24 hours at 24°C (75°F) SAE AS5942 (20 rubs) - PRINT LEGIBLE
Skydrol™ 500 hydraulic fluid	24 hours at 24°C (75°F) SAE AS5942 (20 rubs) - PRINT LEGIBLE
5% salt water (A-A-694)	24 hours at 24°C (75°F) SAE AS5942 (20 rubs) - PRINT LEGIBLE
MIL-A-8243 anti-icing fluid	24 hours at 24°C (75°F) SAE AS5942 (20 rubs) - PRINT LEGIBLE

Notes: Some types of neoprene insulation used in jackets contain additives that can migrate to the surface and discolour the polyolefin ETM sleeves.
Any discolouration is dependent on the composition of the neoprene, combined with the application conditions. Users should independently evaluate the suitability of the ETM sleeves for applications involving neoprene-jacketed cables.

Product Layout Example





Zero Halogen Heat Shrink Sleeves

expressMARK ETZ sleeves are ideal for applications where limited fire hazard 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.

Temperature Ratings

Operating temp. range	-30°C to +105°C	-22°F to +221°F
Minimum recovery temp.	+135°C	+275°F
Maximum storage temp.	+40°C	+104°F

Specifications & Approvals

Military	SAE AS81531 4.6.2 MIL-STD-202F 215J
Industry	BS 6853(1999) - Vehicle category 1a



Printers & Ribbons

TE3124-PRINTER with 1966-RIBBON
T200-IDENT-PRINTER with 1966-RIBBON
T212M-PRINTER with T200-RIBBON-1966

Part Number	Type	Colour	Dimensions (mm)			Pack Size	Cable Range (mm ²)*		Recovered Diameter(mm)
			Diameter	x	Length		From	To	
ETZ-9-024050-B	ETZ	WHITE	2.4	x	50	1000pcs			1.19
ETZ-9-032050-B	ETZ	WHITE	3.2	x	50	1000pcs	0.50	to 1.00	1.58
ETZ-9-048050-B	ETZ	WHITE	4.8	x	50	1000pcs	1.00	to 4.00	2.36
ETZ-9-064050-B	ETZ	WHITE	6.4	x	50	1000pcs	4.00	to 6.00	3.18
ETZ-9-095050-B	ETZ	WHITE	9.5	x	50	1000pcs	6.00	to 16.00	4.75
ETZ-9-127050-B	ETZ	WHITE	12.7	x	50	1000pcs	16.00	to 35.00	6.35
ETZ-9-190050-B	ETZ	WHITE	19.0	x	50	1000pcs	35.00	to 120.00	9.53
ETZ-9-254050-A	ETZ	WHITE	25.4	x	50	250pcs	120.00	to 185.00	12.70
ETZ-9-381050-A	ETZ	WHITE	38.1	x	50	250pcs	185.00	to 400.00	19.05
ETZ-4-024050-B	ETZ	YELLOW	2.4	x	50	1000pcs			1.19
ETZ-4-032050-B	ETZ	YELLOW	3.2	x	50	1000pcs	0.50	to 1.00	1.58
ETZ-4-048050-B	ETZ	YELLOW	4.8	x	50	1000pcs	1.00	to 4.00	2.36
ETZ-4-064050-B	ETZ	YELLOW	6.4	x	50	1000pcs	4.00	to 6.00	3.18
ETZ-4-095050-B	ETZ	YELLOW	9.5	x	50	1000pcs	6.00	to 16.00	4.75
ETZ-4-127050-B	ETZ	YELLOW	12.7	x	50	1000pcs	16.00	to 35.00	6.35
ETZ-4-190050-B	ETZ	YELLOW	19.0	x	50	1000pcs	35.00	to 120.00	9.53
ETZ-4-254050-A	ETZ	YELLOW	25.4	x	50	250pcs	120.00	to 185.00	12.70
ETZ-4-381050-A	ETZ	YELLOW	38.1	x	50	250pcs	185.00	to 400.00	19.05

(*BS 6231 Tri-Rated)

Alternative sleeve lengths

ETZ-X-XXX 025 -X	2 x 25mm sleeves per 50mm strip
ETZ-X-XXX 016 -X	3 x 16mm sleeves per 50mm strip
ETZ-X-XXX 012 -X	4 x 12.5mm sleeves per 50mm strip

Colour options

ETZ- 9 -XXXXXX-X	9	WHITE	Standard
ETZ- 4 -XXXXXX-X	4	YELLOW	Standard

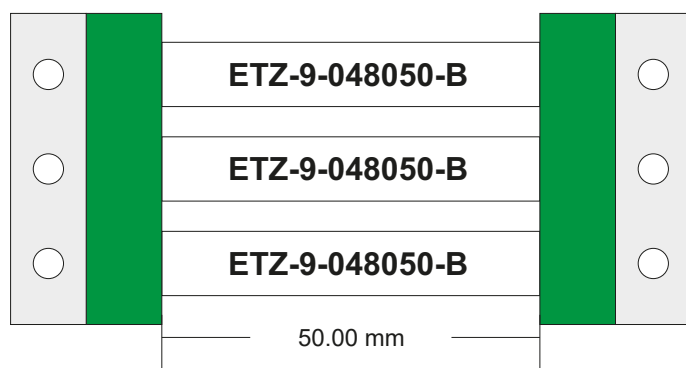
Need markers, but don't have a printer on site ?

e xpressMARK can offer you our pre-print service
a vailable for all products with no minimum quantity
s imple, quick response time and all hassle free
y ou send the data, we print the markers - **easy!**

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: (base polymer)	Tensile Strength >90% & Ultimate elongation >40% of original value after 1000 hours. (ASTM G53: UVA [100% dry cycle] ; UVB [8 hours dry/4hours 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



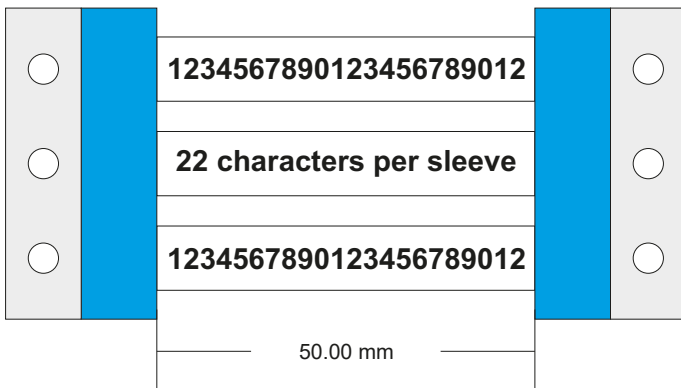


Heat Shrink Sleeve Perforation Options

expressMARK offer both the ETM and ETZ ident sleeves in four sleeve lengths of 50mm, 25mm, 16mm and 12.5mm. With our in-house capability to perforate product on demand and to order it ensures we have the product you want when you want it. If we do not have the scored product in stock simply check stock of the unscored 50mm strip and we shall perforate that product the very same day and ship to you accordingly. Please see the scoring options below that we offer on the full range and diameter of heat shrinkable sleeves.

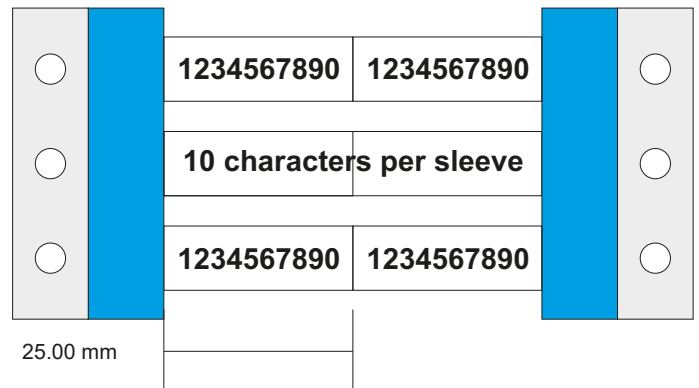
Unscored 50mm sleeve

Example shows 11 point Arial font with up to 22 characters



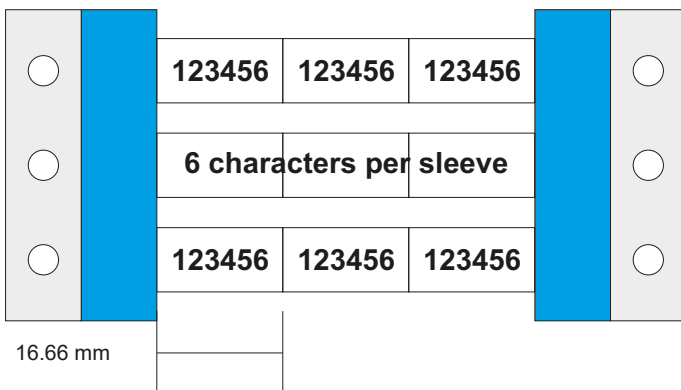
Perforated 50mm sleeve for 2 x 25mm sleeves

Example shows 11 point Arial font with up to 10 characters



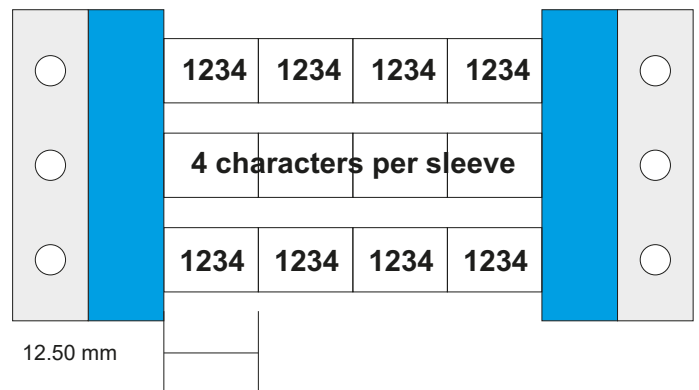
Perforated 50mm sleeve for 3 x 16mm sleeves

Example shows 11 point Arial font with up to 6 characters



Perforated 50mm sleeve for 4 x 12.5mm sleeves

Example shows 11 point Arial font with up to 4 characters



Above options available for both the ETM and ETZ range of products!





Multimark Insert Markers & Carrier Strips

MultiMark is comprised of a printed strip, which is inserted into a protective PVC carrier. The carrier can be applied to wires or cables pre-termination to allow post termination printed strip insertion or the strips can be replaced post termination when re-labeling is required. The PVC carrier protects the markers from dust and grime. These carriers are available in a number of sizes to cover a wide range of cable diameters. The printable strips are presented as organized markers on a paper carrier for ease of selection and kitting.

Temperature Ratings

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

Specifications & Approvals

Military SAE AS81531 4.6.2
 MIL-STD-202F 215J

Industry UL 224 (clause 14)
 BS 4G 198 Part 3
 ASTM D 2671

Printers & Ribbons

TE3124-PRINTER with 1966-RIBBON or TMS-RJS-RIBBON-4RPSCE
 T200-IDENT-PRINTER with 1966-RIBBON or TMS-RJS-RIBBON-4RPSCE

Ordering Information

Marker Inserts

Part Number	Type	Colour	Dimensions (mm)			Pack Size
			Height	x	Length	
08269919A	TMM	WHITE	4	x	15	3520pcs
08269904A	TMM	WHITE	4	x	30	1760pcs
08269419A	TMM	YELLOW	4	x	15	3520pcs
08269404A	TMM	YELLOW	4	x	30	1760pcs

Carriers

Part Number	SIZE	Colour	For Cable	Length	Pack Size
0820516	00	CLEAR	up to 1.0	16	1000pcs
0820532	00	CLEAR	up to 1.0	32	1000pcs
0825016	0	CLEAR	0.5-1.5	16	1200pcs
0825032	0	CLEAR	0.5-1.5	32	600pcs
0825216	2	CLEAR	1.5-6.0	16	800pcs
0825232	2	CLEAR	1.5-6.0	32	400pcs
0825416	4	CLEAR	4.0-16.0	16	400pcs
0825432	4	CLEAR	4.0-16.0	32	200pcs

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

e xpressMARK can offer you our pre-print service
a vailable for all products with no minimum quantity
s imple, quick response time and all hassle free
y ou send the data, we print the markers - **easy!**



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 AS81531 4.6.2
 MIL-STD-202F 215J

Industry UL 224 (clause 14)
 BS 4G 198 Part 3
 ASTM D 2671



Printers & Ribbons

TE3124-PRINTER with 1966-RIBBON
 T200-IDENT-PRINTER with 1966-RIBBON
 T212M-LATCH-PRINTER with T200-RIBBON-1966

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-4-012060-B	ETC	YELLOW	12.5	x	80	10.5	x	65	200pcs
ETC-2-012060-B	ETC	RED	12.5	x	80	10.5	x	65	200pcs
ETC-5-012060-B	ETC	GREEN	12.5	x	80	10.5	x	65	200pcs
ETC-6-012060-B	ETC	BLUE	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-4-025080-B	ETC	YELLOW	25.0	x	100	23.0	x	80	500pcs
ETC-2-025080-B	ETC	RED	25.0	x	100	23.0	x	80	500pcs
ETC-5-025080-B	ETC	GREEN	25.0	x	100	23.0	x	80	500pcs
ETC-6-025080-B	ETC	BLUE	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-4-060080-B	ETC	YELLOW	60.0	x	100	58.0	x	80	250pcs

Product Layout Example

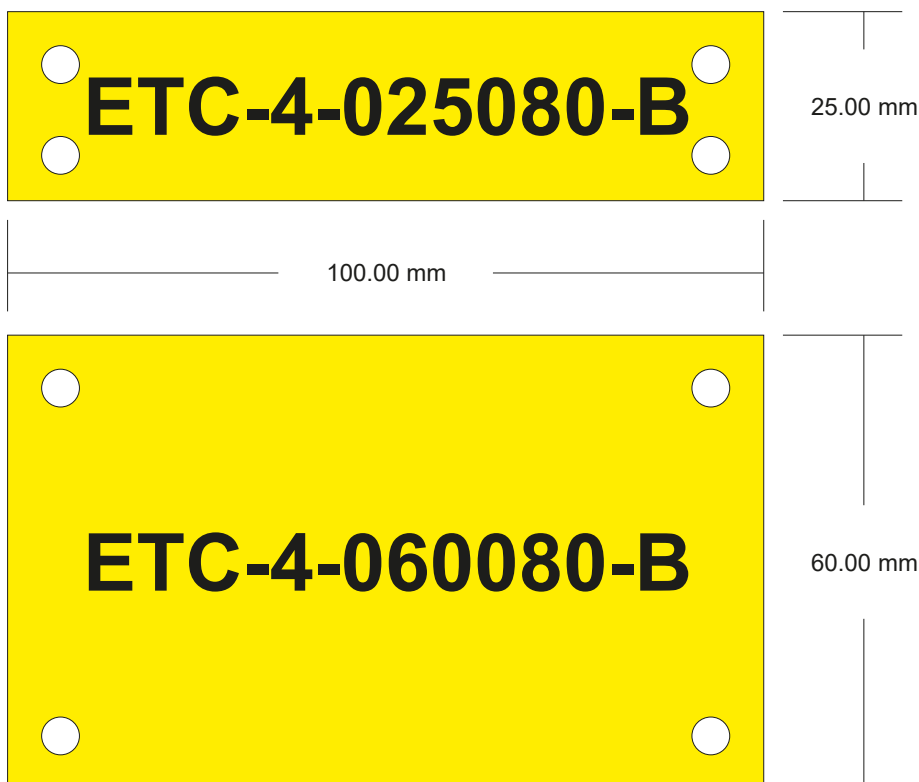


Need markers, but don't have a printer on site ?

e xpressMARK can offer you our pre-print service
a vailable for all products with no minimum quantity
s imple, quick response time and all hassle free
y ou 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: (base polymer)	Tensile Strength >90% & Ultimate elongation >40% of original value after 1000 hours. (ASTM G53: UVA [100% dry cycle] ; UVB [8 hours dry/4hours 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



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 an 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-printed Heat Shrink and Cable Markers

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
		ETZ = zero halogen	4 = yellow	032 = 3.2mm
	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

Pre-printed Terminal Markers

expressMARK are also able to provide our customers with pre-printed terminal markers using the same dedicated preprint service they have come to enjoy over the years. The full product range is available online and covers a range of terminal markers to suit the leading industry brands including Weidmuller, Entelec, Phoenix, Wago, Siemens, Woertz, Legrand and Telemecanique.

Call us or check online for more details.

Pre-printed Switch Labels & Panel Labels

expressMARK can also pre-print your switch labels and panel labels, along with labels suitable for fuse racks, suitable for use on switchgear and many other applications. We can print these on semi-rigid materials, polyesters and vinyls. Got a specific application or requirement you are struggling to find a solution to? Then why not send us a drawing and let us provide you with some options and samples for approval.

Pre-printed Warning Signs, Labels and Tapes

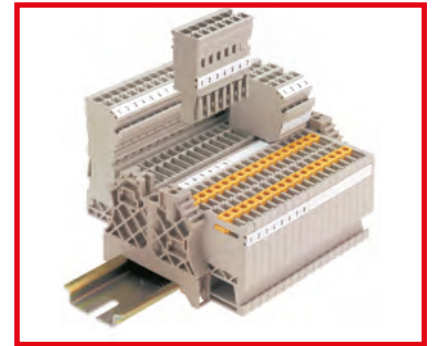
Warning signage is a critical factor for all industries and expressMARK can provide you with a full range of warning signage for your panels, junction boxes or simply to suit your own specific application requirements. Available in semi-rigid materials, self adhesive polyester labels or in tape format we surely have a solution to meet your needs. If you have a requirement for labels or signage with unique text, layout or even size then we can easily accommodate you, with our flexible in-house, made-to-order bespoke service. A fast turn around on design and supply is guaranteed and we have no minimum order quantities.

Pre-printed Health and Safety Signage

expressMARK have an extensive range of health and safety signs available to order. The standard full range is available to view online however if you have a specific requirement we can usually accommodate your needs with our in-house design service. The full range includes Mandatory, Prohibition, Fire Exit, Warning, Smoking, CCTV, Photo-luminiscent and much more. Ask for details!

Pre-printed Self-laminating Labels

Self laminating labels are widely used for post termination applications such as data, networking or even rework of existing panels and electrical installations. expressMARK can offer you a pre-print service on a range of self-laminating labels, with your text printed on white background and upon installation you use the clear wrap-around tail to overlap and protect the printed area. Simply send us your data and we shall do the rest!



Engraved Labels

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, face plates and door signage
- Junction box and control panel labels
- Cable tray node point labels
- Facia and mimic plates
- Switch and push button labels
- One-off specials to large complex projects
- Supplied catalogued in an organised fashion
- 1.5mm and 3.0mm thick material options
- Adhesive options to suit the application or environment
- Any shape, with dimensions up to 600 x 450mm
- Fast, efficient and competitively priced - put us to the test !



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

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
Limone	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



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.

Marking Capabilities

- 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

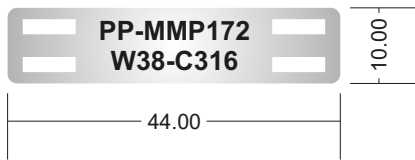
Don't see the size you need from the standard stock?

Bespoke labels can be made to order - see page 22

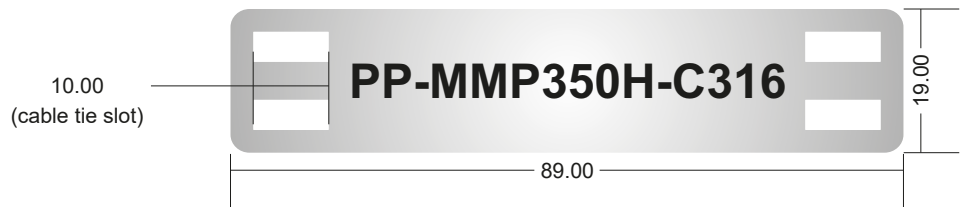
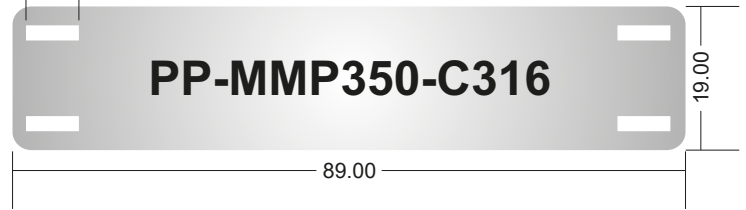
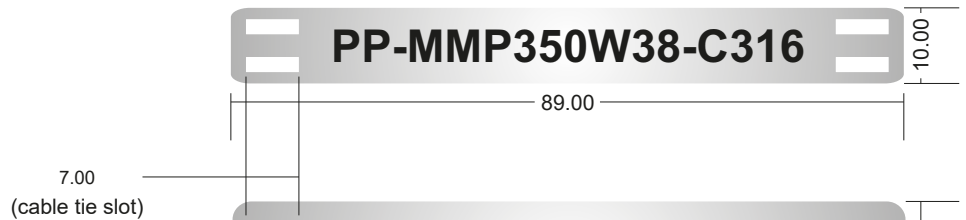
Call us to discuss your specific requirements!

*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

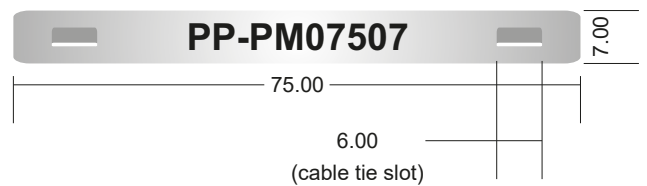
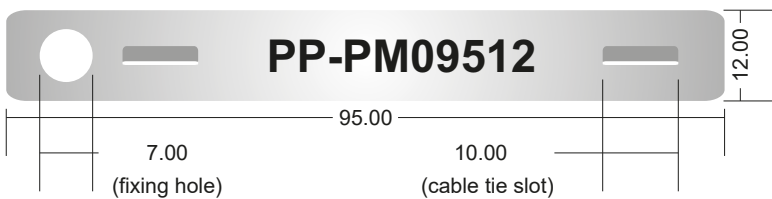
Stainless Steel “tie-on” Cable Markers



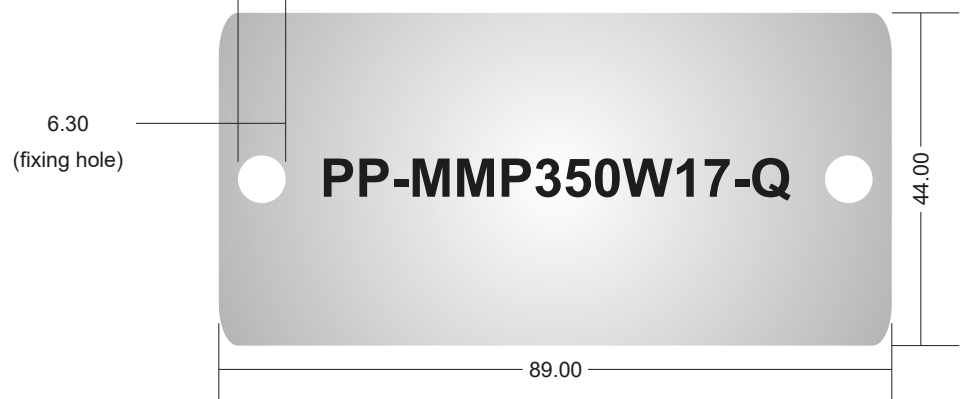
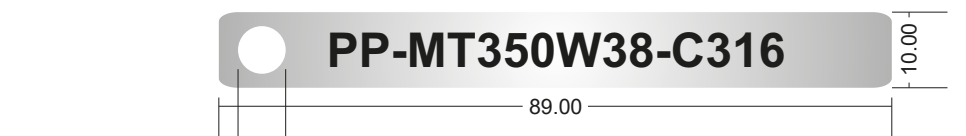
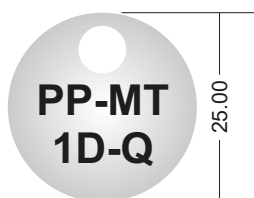
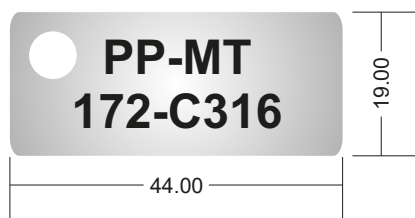
The MMP Style cable markers come supplied complete with 2 s/s cable ties 200 x 4.6mm

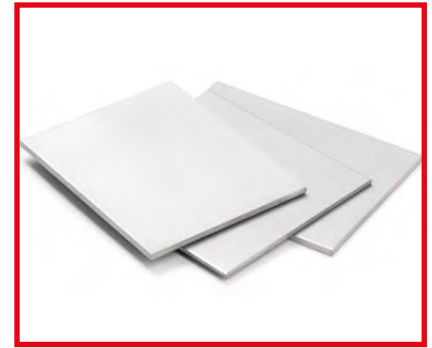


Stainless Steel “Raised Shoulder” Cable Markers



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





Stainless Steel Custom Marking & Cutting Service

expressMARK stainless steel plates are designed by you and manufactured by us. Our custom in-house cutting service allows us to offer you unrivalled service in custom stainless steel plate marking. With capabilities to cut material up to 1mm thick and a choice of material grade and finish available, along with our ability to punch fixing holes if required allows for a custom service tailored to you. From one-off plates through to larger volumes we now offer a total solution in stainless steel marking, **we cut, we mark; we part mark** and we provide the fasteners and fittings to suit the application. Call us or email us today to discuss your needs!

Our cutting capabilities

- Up to 1mm thick cutting capabilities
- Hole punching options available
- SS316 and SS304 grades as standard
- Brushed, matt and polished finishes

Our marking capabilities

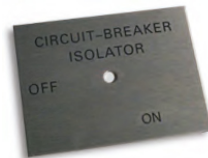
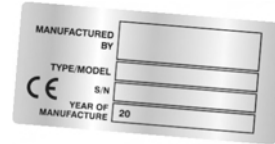
- BOLD block letters
- Upper & lower case characters
- True Type fonts
- Data-matrix barcoding
- Logos and graphics
- Colour printing directly on to stainless
- Multiple lines of text
- Varying font sizes on same marker
- Single / one-off tags for adds, mods, changes
- Alphanumeric and sequential numbering ability

Our part marking service

- You may have stainless parts that simply need marked. No problem! Send us the parts and we'll mark them
- e** xpressMARK 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!**

Fasteners to suit your needs!

- Many fastener options are held in stock
- Nuts, washers, bolts, machine screws and more
- Send us fixing details and let us source the total solution





4.6mm, 7.9mm and 12.3mm widths available

EBT Roller Ball Stainless Steel Cable Ties

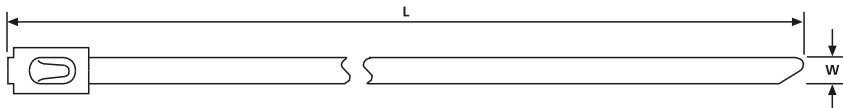
The EBT (Express Ball Tie) range have a non-releasable locking mechanism that offers infinite adjustment along the length of the tie. These ties are available in both 316 and 304 grades of stainless steel.

The EBT range of stainless steel ties are suitable for use in the most arduous conditions or where additional security, strength, fire and chemical resistance is required. Used in all industries – from mass transit, shipbuilding, oil rigs, mining, chemical industries and many more.

Features and Benefits

EBT Type

- 3 strap widths available
- High tensile strength
- Fast, secure installation
- Safe to handle
- Flame retardant
- -80°C to +538°C



EBT

Part Number	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
Material: SS 304						
EBT5SS	127	4.6	25.0	670	SS304	MK9SST
EBT8SS	201	4.6	50.0	670	SS304	MK9SST
EBT14SS	362	4.6	102	670	SS304	MK9SST
EBT20SS	521	4.6	152	670	SS304	MK9SST
EBT27SS	681	4.6	203	670	SS304	MK9SST
EBT33SS	838	4.6	254	670	SS304	MK9SST
EBT8HS	201	7.9	50.0	1115	SS304	MK9SST
EBT14HS	362	7.9	102	1115	SS304	MK9SST
EBT20HS	521	7.9	152	1115	SS304	MK9SST
EBT27HS	681	7.9	203	1115	SS304	MK9SST
EBT33HS	838	7.9	254	1115	SS304	MK9SST
Material: SS 316						
EBT5S	127	4.6	25.0	670	SS316	MK9SST
EBT8S	201	4.6	50.0	670	SS316	MK9SST
EBT11S	279	4.6	70.0	670	SS316	MK9SST
EBT12S	300	4.6	80.0	670	SS316	MK9SST
EBT14S	362	4.6	102	670	SS316	MK9SST
EBT20S	521	4.6	152	670	SS316	MK9SST
EBT27S	681	4.6	203	670	SS316	MK9SST
EBT33S	838	4.6	254	670	SS316	MK9SST
EBT8H	201	7.9	50.0	1115	SS316	MK9SST
EBT14H	362	7.9	102	1115	SS316	MK9SST
EBT20H	521	7.9	152	1115	SS316	MK9SST
EBT27H	681	7.9	203	1115	SS316	MK9SST
EBT33H	838	7.9	254	1115	SS316	MK9SST
EBT14XH	362	12.3	102	2225	SS316	MK9SST
EBT20XH	521	12.3	152	2225	SS316	MK9SST
EBT27XH	681	12.3	203	2225	SS316	MK9SST
EBT33XH	838	12.3	254	2225	SS316	MK9SST

All dimensions in mm. Subject to technical changes.

Full range of stainless steel cable ties available from expressFIX