EF

EXTENDED FIRE SPECIFICATION

- Zero Halogen
- Flame Retardent
- Low Smoke Generation at burnings
- Print on liner enabled
- Easy Pick Application
- Black stripe for easy detection
- Print performance to military requirements
- Perforation between each marker for easy tear
- Shrink ratio 2:1

GENERAL INFORMATION

Flame retardant, zero halogen, low smoke, low toxicity radiation cross linked UV stabilised and printable polyolefin. Ideal where limited fire hazard properties must be the standard.

Typical use in mass transit, marineand industrial installations where human life is at risk. Meets London Underground Limited Standard 1-085.

The markers are pre-conditioned for printing with Partex range of printers and approved ribbons to meet industry standards. They are supplied in ladder format for ease of handling and sorting post printing.

TECHNICAL INFORMATION

Approvals and Standards
Certified and issued to:

- DEF STAN 59-97, issue 3 Type 8
- LUL Standard 1-085 (Limited, Dispersed usage) (Formerly LUL 2-01001-002)
- BS6853 - Vehicle Cat. 1a

Thermal Properties	**Typical Value**	**Test Method**
Continuous Operating Temperature	-40°C to +105°C	
Elongation After Heat Ageing 168 hrs at158°C	150 %	ISO 37
Cold Bend (-40°C)	Does not break at -40°C	ASTM-D 2671 Meth. C
Elongation After Heat Shock (4 hrs at 150°C)	100% Min	ASTM-D 2671
Min. Shrink Temperature for Full Recovery	+115°C	ASTM-D 2671
Flammability	Flame retardant	ASTM-D 635
Physical Properties	**Typical Value**	
Longitudinal Change	+-10% Max	ASTM-D 2671
Specific Gravity	1,45 g/cm3	ISO/R 1183
Tensile Strength	10.0 MPa Min.	IEC 60684-2
Elongation at Break	200% Min	IEC 60684-2
Secant Modulus	130 MPa Max	ASTM-D 882
Chemical Properties	**Typical Value**	
Chemical Resistance	Good to Exellent	
Corrosion Action	Non-Corrosive	ASTM-D 2671 Method. A
Copper Compability	Non-Corrosive	ASTM-D 2671 Method.
Electrical Properties	**Typical Value**	
Dielectric Strength	24kV/mm	IEC 243
Volume Resistivity	10 ohmxcm	ASTM-D 2671 Method. A
Dielectric Voltage Withstand (after aging)	No Breakdown	ASTM-D 2671 Metod.
Water Absorbtion	0.20 %	ASTM-D570
Low Fire Hazard Properties	**Typical Value**	
Oxygen Index	>32	ISO 4589-2
Toxicity (R Value)	0.31	BS6853 B1
Smoke Emission (Ao)	0.014	BS6853 D8.3

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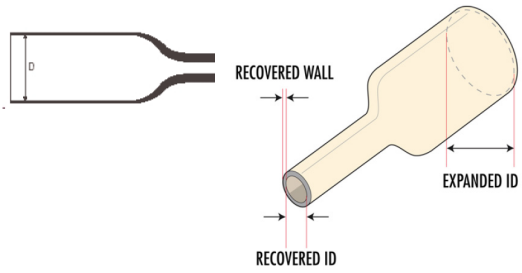
Application

Additional Information
Printer and Ribbon Recommended
Printer: 300 DPI MK10
Ribbon MK10-RB-BK2020-110
MK10-RB-BKHT-70
Print Performance: -
Adherence: SAE-AS81531-1998 Clause 4.6.2
Fluid Resistance: MIL202 Method 215J
Store in original packaging.
Recommended temperature at +10°C to 25°C at 45-55% R.H.
Use within 3 years from date of manufacture.



Product and order information

Nominal diameter supplied mm (D)	Nominal diameter recovered mm (d)	Sleeve Length mm	Markers Across	Markers/Box	Order Code
2.4	1.2	12.5	4	4000	EF^024125LR*
2.4	1.2	25	2	2000	EF^024250LR*
2.4	1.2	50	1	1000	EF^024500LR*
3.2	1.6	12.5	4	4000	EF^032125LR*
3.2	1.6	25	2	2000	EF^032250LR*
3.2	1.6	50	1	1000	EF^032500LR*
4.8	2.4	12.5	4	4000	EF^048125LR*
4.8	2.4	25	2	2000	EF^048250LR*
4.8	2.4	50	1	1000	EF^048500LR*
6.4	3.2	12.5	4	4000	EF^064125LR*
6.4	3.2	25	2	2000	EF^064250LR*
6.4	3.2	50	1	1000	EF^064500LR*
9.5	4.8	12.5	4	2000	EF^095125LR*
9.5	4.8	25	2	1000	EF^095250LR*
9.5	4.8	50	1	500	EF^095500LR*
12.7	6.4	12.5	4	2000	EF^127125LR*
12.7	6.4	25	2	1000	EF^127250LR*
12.7	6.4	50	1	500	EF^127500LR*
19.0	9.5	12.5	4	2000	EF^190125LR*
19.0	9.5	25	2	1000	EF^190250LR*
19.0	9.5	50	1	500	EF^190500LR*
25.4	12.7	25	2	600	EF^254250LR*
25.4	12.7	50	1	300	EF^254500LR*
38.1	19.0	50	1	100	EF^381500LR*

*=colour (4=Yellow, 9= White)
^=printable sides (S=single sided, D=Double sided)

Ordering Information Example

EF ^ 032 050 LR *

- EF — Product
- ^ — Printable sides (S=Single sided, D=Double sided)
- 032 — Marker length mm
- 050 — Marker width mm
- LR — Packaging type
- * — Colour (4=Yellow, 9=White)

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