

EF Printable Heat Shrink Sleeves

Extended Fire specification 2:1 ratio

Flame retardant, zero halogen, low smoke, low toxicity radiation cross linked UV stabilised and printable polyolefin sleeves used for wire identification. Ideal for use where limited fire hazard properties are required. Developed for use in mass transit, and marine applications where human life is at risk.

Meets London Underground Limited Standard 1-085.



INFORMATION

- + Flame Retardant
- + Self Extinguishing
- + Zero Halogen
- + Easy Pick Application
- + Backing card perforated after every sleeve
- + Print performance to Military Specifications

SPECIFICATION

Temperature range

-40°C to +105°C

Material

flexible polyolefin

Print

thermal transfer

Standard colours

yellow and white

Shrink ratio

2:1

Fluid resistance

Meets: MIL202G Method 215K

Specifications:

Meets DEF STAN 59-97, issue 3 type 8

LUL Standard 1-085 (Limited, dispersed usage)

Formerly LUL 2-01001-002

BS6583 - Vehicle Cat. 1a

THERMAL PROPERTIES	VALUE	TEST METHOD
Continuous Operating Temperature	-40°C to +105°C	
Elongation After Heat Ageing (158°Cx168hrs)	150%	ISO 37
Cold Bend (-40°C)	Does not break	ASTM-D 2671 Meth. C
Elongation After Heat Shock (150°Cx4hrs)	100% Min.	ASTM-D 2671
Minimum Shrink Temperature	+115°C	ASTM-D 2671
Flammability	Flame retardant	ASTM-D 635

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Longitudinal Change	+10% Max.	ASTM-D 2671
Specific Gravity	1.45 g/cm ³	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	VALUE	TEST METHOD
Chemical Resistance	Good to Excellent	
Corrosion Action	Non-Corrosive	ASTM-D 2671 Meth. A
Copper Compatibility	Non-Corrosive	ASTM-D 2671

ELECTRICAL PROPERTIES	VALUE	TEST METHOD
Dielectric Strength	24kV/mm	IEC 243
Volume Resistivity	10 ¹⁶ ohmxcm	ASTM-D 2671 Meth. A
Dielectric Voltage Withstand (after aging)	No Breakdown	ASTM-D 2671
Water Absorbion	0.20%	ASTM-D 570

LOW FIRE HAZARD PROPERTIES	VALUE	TEST METHOD
Oxygen Index	>32	ISO 4589-2
Toxicity (R Value)	0.31	BS6853 B1
Smoke Emission (Ao)	0.014	BS6853 D8.3

PRODUCT RANGE

TYPE	DIAMETER (mm) BEFORE SHRINKING	DIAMETER (mm) AFTER SHRINKING	SLEEVE LENGTH(mm)	MARKERS ACROSS	MARKERS / BOX
EF^024125LR	2.4	1.2	12.5	4	4000
EF^024250LR	2.4	1.2	25	2	2000
EF^024500LR	2.4	1.2	50	1	1000
EF^032125LR	3.2	1.6	12.5	4	4000
EF^032250LR	3.2	1.6	25	2	2000
EF^032500LR	3.2	1.6	50	1	1000
EF^048125LR	4.8	2.4	12.5	4	4000
EF^048250LR	4.8	2.4	25	2	2000
EF^048500LR	4.8	2.4	50	1	1000
EF^064125LR	6.4	3.2	12.5	4	4000
EF^064250LR	6.4	3.2	25	2	2000
EF^064500LR	6.4	3.2	50	1	1000
EF^095125LR	9.5	4.75	12.5	4	2000
EF^095250LR	9.5	4.75	25	2	1000
EF^095500LR	9.5	4.75	50	1	500
EF^127125LR	12.7	6.4	12.5	4	2000
EF^127250LR	12.7	6.4	25	2	1000
EF^127500LR	12.7	6.4	50	1	500
EF^190125LR	19.0	9.5	12.5	4	2000
EF^190250LR	19.0	9.5	25	2	1000
EF^190500LR	19.0	9.5	50	1	500
EF^254250LR	25.4	12.7	25	2	600
EF^254500LR	25.4	12.7	50	1	300
EF^381500LR	38.1	19.0	50	1	100

^= S (single sided), D (double sided) = Colour (4= Yellow, 9= White)

Recommended ribbon: 2020 series