

MIL specification polyolefin Heat-shrink sleeves

Description

D-identify MIL sleeves provide reliable wire and cable identification in harsh environments. They are manufactured from radiation cross-linked, flame-retardant, self-extinguishing polyolefin. Printed marks are permanent after printing and remain legible under abrasion, aggressive solvents, military fuels, and oils. These sleeves are suitable for aerospace, military, and defense applications requiring high performance.

Physical

Properties	Test Method	Typical value
Tensile strength	ASTM D 638	≥14 N/mm ²
Elongation at break	ASTM D 638	≥400%
Logitudinal change	SAE-AMS-DTL-23053	0% - -2%
Specific gravity	ASTM D 792	1.34g/cm ³
Secant modulus	ASTM D 882	65 Mpa

Electrical

Properties	Test Method	Typical value
Dielectric strength	UL244	15kV/mm
Volume resistivity	ASTM D 876	3.1 x 10 ¹⁴ Ω cm
Voltage rating	UL244	600V
Dielectric voltage resistance	UL244	Pass. No breakdown.

Chemical

Properties	Test Method	Typical value
Fungus Resistance	ASTM G21	Pass. No growth.
Fluid resistance	SAE-AMS-DTL-23053	7.25 - 14 Mpa

Thermal

Properties	Test Method	Typical value
Heat shock (4hrs at 250 C)	SAE-AMS-DTL-23053	Pass(no dripping, cracking, flowing)
Elongation after heat ageing	SAE-AMS-DTL-23053	≥400%
Copper corrosion (168hrs-158°C)	SAE-AMS-DTL-23053	Pass
Specific gravity	SAE-AMS-DTL-23053	Pass
Low temperature flexibility (-55°C)	SAE-AMS-DTL-23053	No Cracking
Flammability	UL244	VW-1 pass



Material

Radiation cross linked polyolefin
Shrink ratio 3:1

Standard Colours

White and yellow other colours upon request

Operating temperature

40°C up to +135°C.

Min. shrink temperature

+85°C.

Standard

- CSA 125°C 600V (file 220127)
- UL 224 125°C 600V Vw1 (file E203950)
- SAE-AMS-DTL-23053/5 Class 1&3

Mark Purance

SAE AS81531:1998, point 4.6.2.

Chemical resistance

MIL-STD-202G method 215J.

Print method

Thermal transfer

Storage requirements

Store the product in its original packaging. The recommended storage conditions are a temperature between +10 °C and +25 °C with a relative humidity of 45–55%



Order information

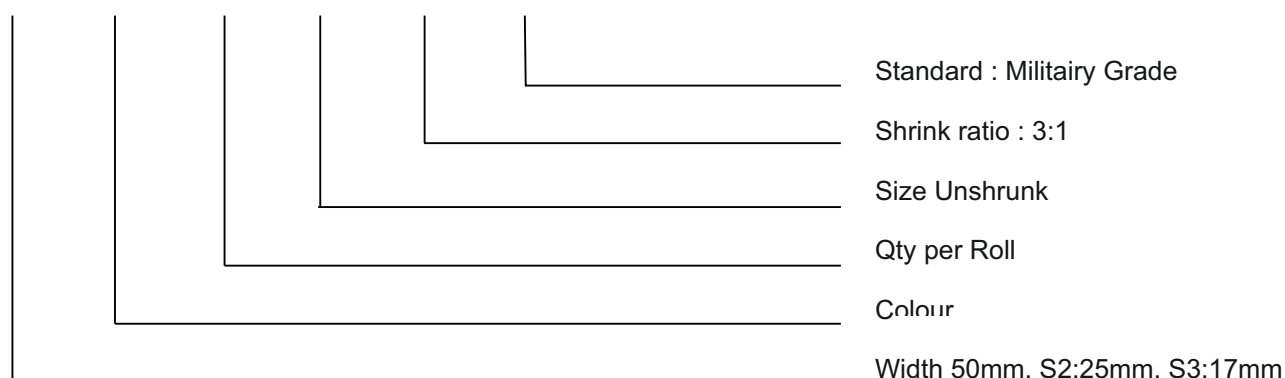
SKU White Sleeves	SKU Yellow Sleeves	diameter		For Cable dia	Flat Dimensions		PCS/roll
		Unshrunk	Recovered		Width	Height	
MIL-3:1-2.4-1K-WH	MIL-3:1-2.4-1K-YL	2,4mm	0,7mm	< 0,5mm ²	50mm	4,6mm	1000
MIL-3:1-3.2-1K-WH	MIL-3:1-3.2-1K-YL	3,2mm	1mm	0 - 1mm ²	50mm	6mm	1000
MIL-3:1-4.8-1K-WH	MIL-3:1-4.8-1K-YL	4,8mm	1,5mm	1 - 4mm ²	50mm	9mm	1000
MIL-3:1-6.4-1K-WH	MIL-3:1-6.4-1K-YL	6,4mm	2,1mm	4 - 6mm ²	50mm	12mm	1000
MIL-3:1-9.5-1K-WH	MIL-3:1-9.5-1K-YL	9,5mm	3,1mm	6 - 16mm ²	50mm	16mm	1000
MIL-3:1-12.7-500-WH	MIL-3:1-12.7-500-YL	12,7mm	4,2mm	16 - 35mm ²	50mm	22mm	500
MIL-3:1-19-500-WH	MIL-3:1-19-500-YL	19mm	6,3mm	35 - 120mm ²	50mm	32mm	500
MIL-3:1-25.4-250-WH	MIL-3:1-25.4-250-YL	25mm	8,4mm	120 - 185mm ²	50mm	42mm	250
MIL-3:1-38-250-WH	MIL-3:1-38-250-YL	38mm	19mm	185 - 400mm ²	50mm	60mm	250

SKU sleeves White and Yellow scored versions

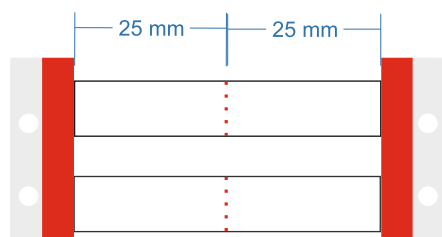
MIL-3:1-3.2-2K-WH-S2	MIL-3:1-3.2-2K-YL-S2	3,2mm	1mm	0 - 1mm ²	25mm	6mm	2000
MIL-3:1-4.8-2K-WH-S2	MIL-3:1-4.8-2K-YL-S2	4,8mm	1,5mm	1 - 4mm ²	25mm	9mm	2000
MIL-3:1-6.4-2K-WH-S2	MIL-3:1-6.4-2K-YL-S2	6,4mm	2.1mm	4 - 6mm ²	25mm	12mm	2000
MIL-3:1-3.2-3K-WH-S3	MIL-3:1-3.2-3K-YL-S3	3,2mm	1mm	0 - 1mm ²	17mm	6mm	3000
MIL-3:1-4.8-3K-WH-S3	MIL-3:1-4.8-3K-YL-S3	4,8mm	1,5mm	1 - 4mm ²	17mm	9mm	3000
MIL-3:1-6.4-3K-WH-S3	MIL-3:1-6.4-3K-YL-S3	6,4mm	2.1mm	4 - 6mm ²	17mm	12mm	3000

SKU information

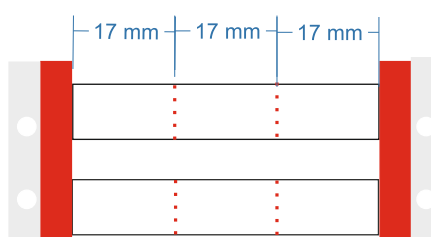
MIL-3:1-3.2-2K-WH-S2



S2: 1 perforation 2 sleeves 25mm



S3: 2 perforation 3 sleeves 17mm



* S4: 3 perforations 4 sleeves each sleeve 12.5mm wide is possible on request. From our experience we found that 3 scores might give you printing issues depending on the printer system you are using.

D-identify BV

Industriepark West 75
9100 Sint-Niklaas, Belgium

 info@d-identify.be

 Tel: +32 3 780 17 06

 www.d-identify.be

Printer Compatibiliy

- **Tyco Raychem:** T2212,T3212,T200-Ident
- **Phoenix Contact :** Thermomark E300, Thermomark E300 Double, Thermomark E600 D
- **Cembre:** Rolly3000, ROLLY300TR2
- **HellermanTyton:** TT431, TT430
- **Weidmüller:** THM-TWINMARK, THM MULTIMARK
- **Brady:** I7100,i7500,BP-PR300 +,BP-PR600+
- **Cab GMBH:** Eos2/300,A4+ 300, A4+ 600, CAB XD Q, CAB Squix 4.3
- **Godex:**
- **SummiMark printers:**

* Sleeves can also be printed on most Zebra, Sato, Toshiba Tec thermal transfer printers, if you doubt feel free to contact us and we will guide you.

Compatible ribbon

Property	Specification
Recommended Ribbon	Thermal transfer ribbon (SKU: [your SKU])
Substrate Compatibility	PURcable tags, polyolefin sleeves, MIL and zero-halogen sleeves
Compliance	Meets SAEAS81531:1998, section 4.6.2 print permanence
Key Benefits	Ensures durable, abrasion- and solvent-resistant print under harsh

SKU: [TASL-R25-110x300-BK](#)

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