



D-Marking 135 THIN WALL TUBING

Military grade heat shrinkable identification sleeves

Applications

Special designed to meet the requirements of high performance identification of wire and cable. It is made of superior flame retardant polyolefin with excellent electrical, physical, chemical and printing properties. Permanent printing property can be widely used for high-performance identification of wire and cables in industrial, military, aerospace, etc .

Features

Shrink ratio 3:1, 2:1
 Military grade
 Excellent printing property, permanent identification
 Excellent electrical, physical, chemical and printing properties.
 Flexible, highly flame-retardant.
 RoHS and REACH compliant.
 Operating temperature range:
 Operating temperature: -55°C ~ 135°C
 Minimum shrink temperature: 70°C
 Minimum fully recovery temperature: 110°C

Approvals:

SAE AMS-DTL-23053/5
 UL224 125°C 600V VW-1
 SAE AS 81531, MIL-STD-202

Technical Data

Property	Requirement	Test Method	Typical Data
Longitudinal shrinkage	≤10%	ASTM D 2671	≤5%
Tensile strength	10.4 MPa min.	ASTM D 638	≥12MPa
Elongation at break	200% min.	ASTM D 638	≥400%
Elongation after ageing (175°C, 168hrs)	100% min.	ASTM D 638	≥300%
Heat shock	No crack	ASTM D 2671	No crack
Low-temperature flexibility(-55°C, 4hrs)	No crack	ASTM D 2671	No crack
Dielectric voltage withstand	2500V,60sec, no breakdown	ASTM D 2671	No breakdown
Dielectric strength	19.7 KV/mm min.	ASTM D 2671	≥25 KV/mm
Volume resistivity	10 ¹⁴ Ω·cm min.	ASTM D 876	≥10 ¹⁴ Ω·cm
Corrosion	No corrosion	ASTM D 2671	No corrosion
Flammability	Self-extinguishing within 1 minute	AMS-DTL-23053	pass
Printing performance	50 rubs, legible 30 strokes, legible	SAE AS81531 MIL-STD-202	pass
Fluid resistance (23°C, 24hrs)	Printing legible	SAE AS81531	pass

Dimensions

Size		Size As Supplied (mm)	Size After Recovery (mm)	Recommended Use range (mm)	Ladder Type pcs/pack	Continue length m/spool
Inch	mm	Inside Diameter Min.	Inside Diameter Max.			
2:1						
3/32	Φ2.4	2.4	1.2	1.3-2.3	250	100
1/8	Φ3.2	3.2	1.6	1.7-3.1	250	100
3/16	Φ4.8	4.8	2.4	2.5-4.7	250	100
1/4	Φ6.4	6.4	3.2	3.3-6.3	250	100
3/8	Φ9.5	9.5	4.8	4.9-9	250	100
1/2	Φ12.7	12.7	6.4	6.6-12	250	100
3/4	Φ19.1	19.1	9.5	10-18.5	250	100
1	Φ25.4	25.4	12.7	13-24.5	250	100
1 1/2	Φ38.1	38.1	19.1	21-37	250	50
2	Φ50.8	50.8	25.4	27-48	250	50
3:1						
3/32	Φ2.4	2.4	0.8	0.9-2.0	250	100
1/8	Φ3.2	3.2	1.1	1.1-2.7	250	100
3/16	Φ4.8	4.8	1.6	1.8-4.1	250	100
1/4	Φ6.4	6.4	2.1	2.3-5.5	250	100
3/8	Φ9.5	9.5	3.2	3.5-8.1	250	100
1/2	Φ12.7	12.7	4.2	4.6-10.8	250	100
3/4	Φ19.1	19.1	6.3	7.0-16.3	250	100
1	Φ25.4	25.4	8.5	9.3-21.6	250	100
1 1/2	Φ38.1	38.1	13.5	15.0-33.0	250	50

Notes:

Other sizes are available upon request.

Color:

Standard color: White or yellow

Other colors are available upon request.