

Part Number CB-MTTM-MIL-S

Header CB-MTTM-MIL-S 3X MIL Spec Heat Shrink Marker Sleeve,

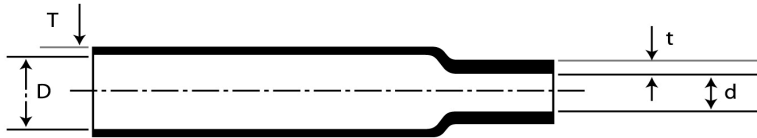
Description CB-MTTM-MIL-S is used to identify wire and cable, tools, hoses and equipment in operating environments where temperatures range from -55°C to 135°C. It can withstand abrasion and exposure to cleaning solvents and other industrial fluids. Sleeves are flame-retardant and can be used for electrical insulation. This tubing can be custom printed with words and symbols on both sides by thermal transfer equipment and all markings are permanent after printing. Available in a 3:1 shrink ratio and in many different sizes and shapes. Certificate: UL, CUL, Sony Green Partner Standard: UL224, AMS-DTL-23053/5, SAE-AS81531, MIL-STD-202 Standard color: flat white and yellow.

Agency Approval & Compliance UL, CUL, RoHS, MIL Spec, Flame Retardant, UL224, REACH, VW1

Application CB-MTTM-MIL-S wire markers are designed to meet wire identification needs of commercial and industrial customers.

Shrink Ratio and Operating Temperature 3:1, -55°C~135°C

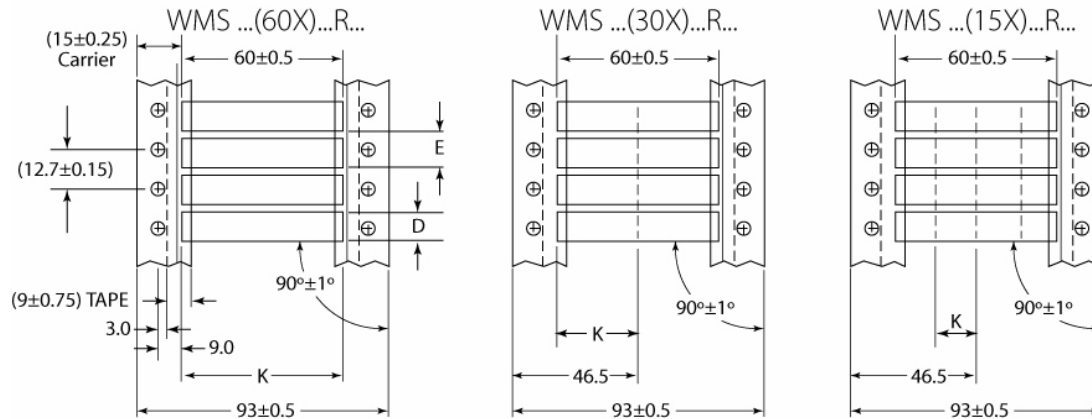
Size



Size CB-MTTM-MIL-S 3X (continuous & card type)

Size (Inch)	Size (mm)	As Supplied			After Recovery	
		Inside Diameter (D)	Wall thickness (T)	Outside Diameter Flat	Wall Thickness (t)	Inside Diameter (d)
3/32	Φ2.4	≥2.4	0.20±0.05	4.9±0.5	0.40±0.10	≤0.79
1/8	Φ3.2	≥3.2	0.20±0.05	6.1±0.5	0.40±0.10	≤1.07
3/16	Φ4.8	≥4.8	0.20±0.05	8.4±0.5	0.40±0.10	≤1.57
1/4	Φ6.4	≥6.4	0.20±0.05	11.2±0.8	0.40±0.10	≤2.11
3/8	Φ9.5	≥9.5	0.20±0.05	16.8±0.8	0.40±0.10	≤3.18
1/2	Φ12.7	≥12.7	0.20±0.05	21.8±1.0	0.40±0.10	≤4.22
3/4	Φ19.1	≥19.1	0.30±0.06	33.4±1.0	0.60±0.15	≤6.35
1	Φ25.4	≥25.4	0.30±0.06	42.4±1.5	0.60±0.15	≤8.46
1-1/2	Φ38.1	≥38.1	0.30±0.06	63.7±1.5	0.60±0.15	≤12.7
2	Φ50.8	≥50.8	0.30±0.06	82.2±1.5	0.60±0.15	≤16.9

CARD TYPE (See Dimensions & Standards table below)



Pre-score Dimensions & Standards (CARD TYPE)

Size	Tube Spacing mm (E)	Tube Length (K) – Full (mm)	Tube Length (K) – Half (mm)	Tube Length (K) – Quarter (mm)
Φ2.4 (2X, 3X)	11.0±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ3.2 (2X, 3X)	11.0±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ4.8 (2X, 3X)	13.6±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ6.4 (2X, 3X)	16.6±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ9.5 (2X, 3X)	21.6±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ12.7 (2X, 3X)	26.8±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ19.1 (2X, 3X)	38.2±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ25.4 (2X, 3X)	47.7±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ38.1 (2X, 3X)	69.0±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Φ50.8 (2X, 3X)	87.7±0.5	60.0±0.5	30.0±0.5	15.00±0.25

Typical Properties

Item	Specifications
Physical performance	
Shrink Temperature (°C)	90°C~150°C
Temperature Range (°C)	-55°C~135°C
Tensile Strength (MPa)	≥10.3Mpa
Ultimate Elongation (%)	≥200%
Flexibility (-55°C, 4hrs)	No cracking
Heat shock	No cracking, dripping, flowing
Cold Shock	

Radial Shrinking Ratio	3:1
Longitudinal Change (%)	
Print performance	
UL 224	50 Rubber erasure, identification
MIL-M-81531-4.6.2	50 Rubber erasure, identification
MIL-STD-202	30 Rubber erasure, identification
Electrical performance	
Aging in Circulating-air Oven	
Dielectric Strength (kV/mm)	≥19.7KV/mm
Dielectric Voltage (V) AC	
Volume Resistivity (Ω.cm)	≥10 ¹⁴ Ω.cm
Flammability as per AMS-DTL-23053	Average burn time is <1
Fluid resistance (23°C, 24hrs)	Print identified
Tensile strength (M Pa)	≥6.5MPa
Ultimate elongation ratio (%)	≥100%
MIL-M-81531-4.6.2	20 rubber erasure, identification
Concentricity (%)	

Availability Master spools, ladder reels and cut pieces

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