

Part Number CB-MTHX

Header CB-MTHX3X MIL Spec Heat Shrink Marker Sleeve

Description CB-MTHX 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-MTHX 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

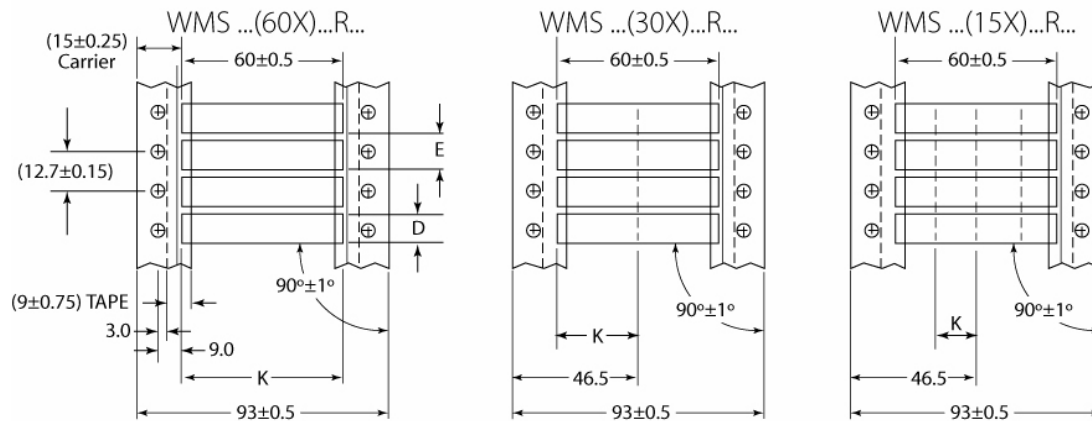
Size



Size CB-MTHX 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	5.2±0.4	0.40±0.10	≤0.79
1/8	Φ3.2	≥3.2	0.20±0.05	6.8±0.4	0.40±0.10	≤1.07
3/16	Φ4.8	≥4.8	0.20±0.05	9.2±0.5	0.40±0.10	≤1.57
1/4	Φ6.4	≥6.4	0.20±0.05	11.6±0.5	0.40±0.10	≤2.11
3/8	Φ9.5	≥9.5	0.20±0.05	16.5±0.5	0.40±0.10	≤3.18
1/2	Φ12.7	≥12.7	0.20±0.05	21.7±0.5	0.40±0.10	≤4.22
3/4	Φ19.1	≥19.1	0.30±0.06	32.4±0.8	0.60±0.15	≤6.35
1	Φ25.4	≥25.4	0.30±0.06	42.2±0.8	0.60±0.15	≤8.46
1-1/2	Φ38.1	≥38.1	0.30±0.06	62.5±0.8	0.60±0.15	≤12.7
2	Φ50.8	≥50.8	0.30±0.06	81.5±0.8	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
Operating Temperature Range (°C)	—55~135
Tensile Strength (Mpa)	≥10.3
Ultimate Elongation (%)	≥200
Low Temperature Flexibility	—55±1°C/4h no cracking
Heat Shock	250±3°C/4h no cracking, flowing or dropping
Aging in Circulating-air Oven	175.0±2.0°C, 168hrs

After Aging	Tensile Strength (Mpa)	≥6.9
	Ultimate Elongation (%)	≥100
Color Stability		175.0±2.0°C/24h Pass
Volume Resistivity (Ω.cm)		≥10 ¹⁴
Flammability		ASTM D2671 UL224 Average burn time is <1 minute VW-1
Fluid Resistance		SAE-AMS-DTL-23053.4.6.11 No Damage
Print Endurance		SAE AS81531.4.6.2 Legible after 50 Rubs

Availability Master spools, ladder reels and cut pieces

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