

Part Number CB-MTTM

Header CB-MTTM 3X Heat Shrink Marker Sleeve, Halogen Free

Description CB-MTTM 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. Standard color: flat white and yellow.

Agency Approval & Compliance UL, cUL, RoHS, Halogen Free, Flame Retardant, UL224, REACH, VW1

Application CB-MTTM 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

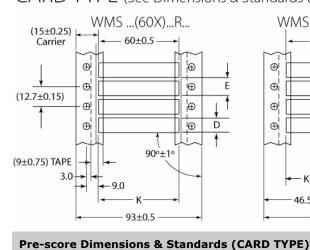
Size

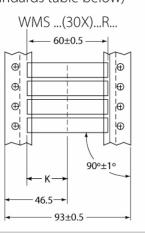


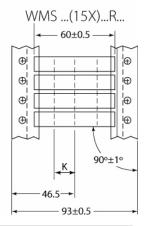
Size CB-MTTM 3X (continuous & card type)

		As Supplied			After Recovery	
Size (Inch)	Size (mm)	Inside Diameter (D)	Wall thickness (T)	Outside Diameter Flat	Wall Thickness (t)	Inside Diameter (d)
3/32	Ф2.4	≥2.4	0.20±0.05	4.9±0.5	0.40±0.10	≤0.79
1/8	Ф3.2	≥3.2	0.20±0.05	6.1±0.5	0.40±0.10	≤1.07
3/16	Ф4.8	≥4.8	0.20±0.05	8.4±0.5	0.40±0.10	≤1.57
1/4	Ф6.4	≥6.4	0.20±0.05	11.2±0.8	0.40±0.10	≤2.11
3/8	Ф9.5	≥9.5	0.20±0.05	16.8±0.8	0.40±0.10	≤3.18
1/2	Ф12.7	≥12.7	0.20±0.05	21.8±1.0	0.40±0.10	≤4.22
3/4	Ф19.1	≥19.1	0.30±0.06	33.4±1.0	0.60±0.15	≤6.35
1	Ф25.4	≥25.4	0.30±0.06	42.4±1.5	0.60±0.15	≤8.46
1-1/2	Ф38.1	≥38.1	0.30±0.06	63.7±1.5	0.60±0.15	≤12.7
2	Ф50.8	≥50.8	0.30±0.06	82.2±1.5	0.60±0.15	≤16.9

CARD TYPE (See Dimensions & Standards table below)







Tube Length

Tube Length Tube Length Tube Spacing

Size	mm (E)	(K) – Full (mm)	(K) – Half (mm)	(K) – Quarter (mm)
Φ2.4 2X 3X	11.0±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Ф3.2 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
Ф6.4 2Х 3Х	16.6±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Ф9.5 2X 3X	21.6±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Ф12.7 2X 3X	26.8±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Ф19.1 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
Ф38.1 2Х 3Х	69.0±0.5	60.0±0.5	30.0±0.5	15.00±0.25
Ф50.8 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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