



MWAT TUBING

MEDIUM WALL SEMI-RIGID TUBING, ADHESIVE COATED

RATED TO 600 V.

Description

The Innovative Power Products MWAT series medium wall tubing is a heatshrinkable, adhesive coated semirigid tubing for general purpose use. MWAT can be used to splice, insulate and jacket 600 volt cables or wire bundles. It is an excellent choice for strain relieving cable assemblies and for corrosion protection. MWAT tubing is recommended for all 600 volt splicing except direct buried applications.

MWAT is precoated with a hot melt thermoplastic adhesive that melts and flows under the heat and pressure of the shrinking tube. MWAT's adhesive provides an excellent moisture seal. It adheres to most synthetic materials, including PVC, PE, XLPE, EPR, neoprene, and most metals.

MWAT's high expansion ratio provides a wide application range, so a minimum number of tubes cover a wide range of cables, cable bundles and connector diameters.

MWAT is very abrasion and chemical resistant and can be used to protect metal, plastic, wood or fiberglass surfaces.

Related Product Information:

MWAT: • Price List PL-315

For direct buried applications or wherever a heavier wall thickness product is necessary for harsher environments use HWAT series tubing. (see page 14)

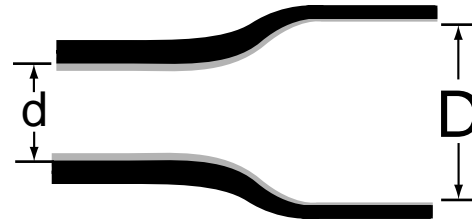


Illustration is not to scale

Specification	Test Method	Value (nom.)
Physical Properties		
Density	ASTM D-1505	0.93 g/cm ³
Tensile Strength	ASTM D-412	14 N/mm ²
Ultimate Elongation	ASTM D-412	350 %
Water absorption	ASTM D-570	0.2%
Electrical Properties		
Dielectric Constant	ASTM D-150	2.5
Electric Strength	ASTM D149	14 kV/mm
Volume Resistivity	ASTM D257	1 x 10 ¹⁴ ohm-cm
Adhesive Properties		
Softening temperature	ASTM D-2671	103-120°C

3
 L.V. Power
 Cable Accs.

Selection and Ordering Information

Find the diameter required for the application. Always select the largest tube that shrinks to the smallest diameter for greatest wall thickness. Determine the tubing length as follows: Tubing length = [Connector length + seal lengths] + 10%. The recommended sealing lengths are: MWAT 12/3 through 40/12 = 3" and MWAT 50/16 through 75/22 = 6" .

Medium Wall Catalog No.	600 Volt Cable nom. AWG/kcmil	Inside Diameter		Standard Lengths Available Cut length tolerance is ± 2% as supplied
		Supplied "D"	Recovered "d"	
MWAT 12/3	#14-#10	0.47 (12 mm)	0.118 (3 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
MWAT 20/6	#6-#2	0.78 (20 mm)	0.236 (6 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
MWAT 30/8	#2-4/0	1.18 (30 mm)	0.315 (8 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
MWAT 40/12	1/0-350	1.57 (40 mm)	0.473 (12 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
MWAT 50/16	350-500	2.05 (50 mm)	0.620 (16 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
MWAT 78/22	600-1500	3.05 (78 mm)	0.870 (22 mm)	48 (1220 mm)
MWAT 95/30	600-1500	3.74 (95 mm)	1.18 (30 mm)	48 (1220 mm)
MWAT 115/34	800-1750	4.53 (115 mm)	1.339 (34 mm)	48 (1220 mm)
MWAT 140/42	1000-2500	5.51 (140 mm)	1.65 (42 mm)	48 (1220mm)