



HWAT Tubing

Heavy Wall Semi-Rigid Tubing, Adhesive Coated. Rated to 1kV

Description

The Innovative Power Products HWAT series tubing is a heatshrinkable, adhesive coated semirigid tubing for insulating and/or jacketing wire and cable connections up to 1kV. HWAT is excellent for direct buried URD applications. It provides insulation thickness equal to or greater than cable manufactured to NEMA or ICEA wire specifications.

HWAT is precoated with a hot melt thermoplastic adhesive that melts and flows under the heat and pressure of the shrinking tube. HWAT's adhesive synthetic materials, including PVC, PE, XLPE, EPR, neoprene, and most metals.

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

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

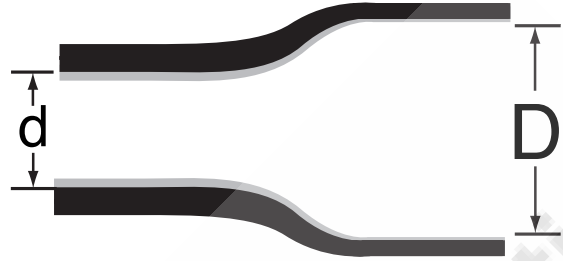


Illustration is not to scale

Related Product Information

MWAT: Price List PL-225

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 Temp.	ASTM D-2671	103-120 °C

Selection and Ordering Information

Find the wire size for the application to select the correct tubing size. Confirm selection with the dimensional data.

Determine the tubing length as follows: Tubing length = [Connector length + seal length] + 10%. The recommended sealing lengths are:

HWAT 12/3 through 40/12 = 3" and HWAT 51/16 through 78/22 = 6".

Heavy Wall Catalog #	600 Volt Cable nom. AWG/kcmil	Inside Diameter		Standard Lengths Available Cut length is ± 2% as supplied
		As Supplied "D"	After Recovery "d"	
HWAT 12/3	#14 - #10	0.47 (12mm)	0.118 (3mm)	6 (150mm), 9 (225mm), 12 (300mm), 48 (1220mm)
HWAT 15/5	#10 - #6	0.60 (15mm)	0.196 (5mm)	6 (150mm), 9 (225mm), 12 (300mm), 48 (1220mm)
HWAT 20/7	#6 - #2	0.78 (20mm)	0.276 (7mm)	6 (150mm), 9 (225mm), 12 (300mm), 48 (1220mm)
HWAT 30/10	#2 - 4/0	1.18 (30mm)	0.393 (10mm)	6 (150mm), 9 (225mm), 12 (300mm), 48 (1220mm)
HWAT 40/12	1/0 - 350	1.57 (40mm)	0.473 (12mm)	6 (150mm), 9 (225mm), 12 (300mm), 48 (1220mm)
HWAT 51/16	350 - 500	2.05 (50mm)	0.620 (16mm)	6 (150mm), 9 (225mm), 12 (300mm), 48 (1220mm)
HWAT 78/22	600 - 1500	3.05 (78mm)	0.870 (22mm)	9 (225mm), 12 (300mm), 48 (1220mm)
HWAT 90/30	Not Applicable	3.54 (90mm)	1.180 (30mm)	48 (1220mm), 60 (1500mm)
HWAT 115/32	Not Applicable	4.53 (115mm)	1.260 (32mm)	48 (1220mm), 60 (1500mm)
HWAT 140/40	Not Applicable	5.51 (140mm)	1.570 (40mm)	48 (1220mm), 60 (1500mm)
HWAT 165/50	Not Applicable	6.50 (165mm)	2.050 (50mm)	48 (1220mm), 60 (1500mm)
HWAT 200/60	Not Applicable	7.87 (200mm)	2.360 (50mm)	60 (1500mm)
HWAT 235/65	Not Applicable	9.25 (235mm)	2.560 (65mm)	60 (1500mm)