



HWAT TUBING

HEAVY WALL SEMI-RIGID TUBING, ADHESIVE COATED

RATED TO 1 kV

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 1 kV. 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.

vHWAT is precoated with a hot melt thermoplastic adhesive that melts and flows under the heat and pressure of the shrinking tube. HWAT's adhesive provides an excellent moisture seal. It adheres to most 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.

Related Product Information:

HWAT: • Price List PL-325

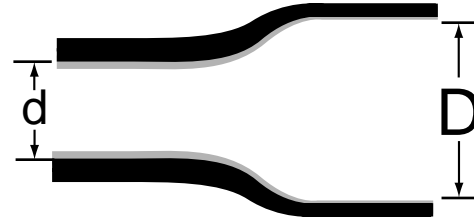


Illustration is not to scale

Specification	Test Method	Value (nom.)
Physical Properties		
Density	ASTM D-1505	1.00 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

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 L.V. Power
 Cable Accs.

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 No.	600 Volt Cable nom. AWG/kcmil	Inside Diameter		Standard Lengths Available Cut length tolerance is ± 2% as supplied
		Supplied "D"	Recovered "d"	
HWAT 12/3	#14-#10	0.47 (12 mm)	0.118 (3 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
HWAT 15/5	#10-#6	0.60 (15 mm)	0.196 (7 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
HWAT 20/7	#6-#2	0.78 (20 mm)	0.276 (7 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
HWAT 30/10	#2-4/0	1.18 (30 mm)	0.393 (10 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
HWAT 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)
HWAT 51/16	350-500	2.05 (50 mm)	0.620 (16 mm)	6 (150 mm), 9 (225 mm), 12 (300 mm), 48 (1220 mm)
HWAT 78/22	600-1500	3.05 (78 mm)	0.870 (22 mm)	9 (225 mm), 12 (300 mm), 48 (1220 mm)
HWAT 90/30	Not applic.	3.54 (90 mm)	1.180 (30 mm)	48 (1220 mm)
HWAT 165/50	Not applic.	6.50 (165 mm)	1.970 (50 mm)	48 (1220 mm)