

LG-PHWT-FR

3:1 SHRINK RATIO, FLEXIBLE, SEMI-RIGID, HEAVY WALL, FLAME-RETARDANT, ADHESIVE-LINED POLYOLEFIN TUBING

Applications

LG-PHWT-FR is designed to provide reliable performance as well as excellent mechanical and environmental protection. LG-PHWT-FR is designed for sealing and insulation of cable splices, electrical connections, terminations and jacket repairs. Ideally suited for shipboard, submersible, direct-buried installations, or wherever tougher mechanical protection is required in an electrical insulation system.

Features

- ★ Operating temperature range: -55°C ~ 125°C
- ★ Shrink ratio of 3:1 – 67% or more in the radial direction
- ★ Exceptional flexibility prior to recovery
- ★ Minimum shrink temperature: 120°C
- ★ Flammability: VTFT (IEEE 383)
- ★ High Carbon Black composition to resist UV radiation
- ★ RoHS Compliant

Standard

- ★ MIL-DTL-23053/15 Class 1 & Class 2
- ★ DNV File No. E-7977, E-7978
- ★ ABS File No. 02-SE23285-X

Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile strength	ASTM D 412	Min. 1.06 kgf/mm ²
		Elongation	ASTM D 2671	Min. 200%
	Aged	Tensile strength	ASTM D 412	Min. 0.76 kgf/mm ²
		Elongation	ASTM D 2671	Min. 100%
	Low temperature flexibility		ASTM D 2671	No crack @ -55° C x 4 hrs
	Heat shock		ASTM D 2671	No crack @ 225° C x 4 hrs
Thermal endurance		IEC 60216	TI/120° C	
Electrical	Dielectric strength		ASTM D 149 & 2671	Min. 7.9 kV/mm
	Volume resistivity		IEC 60093	Min. 10 ¹³ Ω - cm
Chemical	Copper corrosion		ASTM D 2671	No corrosion
	Water absorption		ASTM D 570	Max 0.5% @ 23° C/24 hrs
	Resistance to mold		ASTM G 21	Pass rating 1
	Fluid resistance	Retention of Tensile Strength	ASTM D 412	ASTM No. 2 OR IRM 902 oil @ 70° C Min. 0.53 kgf/mm ² Min. 100%
Retention of Elongation		ASTM D 2671		

Rev. February 2008



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Heat Shrinkable Tubing

LG-PHWT-FR

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Available Colors



Black Red



Fully recovered after heating

Product Dimensions Minimum Shrink Temperature: 120°C

Size	Expanded	Recovered	
	Internal Diameter (min.) (D)	Internal Diameter (max.) (d)	Total Wall Thickness (min.) (t)
Metric Size	mm	mm	mm
9	9.0	3.8	1.0
20	20.0	5.6	2.20
33	33.0	9.5	2.60
38	37.0	12.7	3.10
43	43.0	12.7	3.06
51	51.0	19.1	2.80
70	70.0	21.0	3.60
90	90.0	30.0	3.40
100	100.0	30.0	3.40
130	130.0	36.0	4.0

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