

IFE-DWT

Heat Shrinkable Double Wall Tubing with Meltable Liner



IFE-DWT has excellent mechanical strength, sealing property, chemical/ fluid resistance, insulation and is widely used for all kinds of automotive wire harness and cable protection.

Material Outer jacket: Cross-linked modified polyolefin

Inner wall: Modified hot melt adhesive. Shrink Ratio: 3:1 stock (2:1 and 4:1 are also available)

Color: Black stock (other colors available depending on volume)

Characteristics:

- Flexible
- Flame-retardant
- Good mechanical, electrical and chemical resistance
- Excellent sealing properties
- Operating temperature range: -55°C - 125°C
- ⇒ Shrinking temperature: 110°C

www.ife-group.com

IFE Americas USA

7000 Kensington Road Brighton, MI 48116-8334 **Phone:** +1 (248) 446-1900 **E-mail:** info@ife-group.com

IFE Americas México

Bernardo Ouintana 7001 Torre 2 - 813 Col. Centro Sur. Ouerétaro, Oro. 76090

Phone: +52 (442) 245-1515 **E-mail:** info@ife-group.com



IFE Europe Sweden

Banérgatan 51 SE-115 22 Stockholm Phone: +46 708 102 711 E-mail: info@ife-group.com

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Standard sizes for IFE-DWT (3:1) Heat Shrinkable Tubing

Size	As Supplied (mm)		After Heating (mm)	
Inches (mm)	Minimum ID	Nominal Wall	Minimum ID	Wall- thickness
1/8" (3)	3.0	0.4	1.00	0.85±0.28
3/16" <i>(5)</i>	4.8	0.4	1.50	1.05±0.28
1/4" (6)	6.0	0.45	2.00	1.10±0.28
3/8" (9)	9.0	0.60	3.00	1.45±0.28
1/2" (12)	12.0	0.60	4.00	1.50±0.38
3/4" (19)	19.0	0.75	6.00	2.00±0.55
1" (24)	24.0	0.75	8.00	2.00±0.55
1 1/4" (32)	31.8	0.80	11.00	2.20±0.55
1 1/2" (38)	38.1	0.85	13.00	2.50±0.55
2" (50)	50.0	1.0	17.00	2.50±0.55

Specifications for IFE-DWT (Shrink Ratio:3:1)

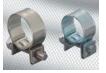
ltem	Specifications	
Shrink Temperature(°C)	110	
Temperature Range(°C)	-55 to ~125	
Radial Shrinking Ratio (%)	≥50	
Longitudinal Change (%)	≤10	
Tensile Strength (MPa)	≥10.4	
Ultimate Elongation (%)	≥200	
Aging in Circulating-air Oven	158.0±1.0°C, 168 hrs	
After Tensile Strength (MPa)	≥7.3	
aging Ultimate Elongation (%)	≥100	
Volume Resistivity(Ω .cm)	≥10 ¹³	
Dielectric Strength @ 1 min.	No Breakdown	
Flammability	VW-1	
Water Absorption (%)	<0.4	
Fluid Resistance	Excellent	
Copper Corrosion	No Corrosion	
Softening Point of Melt-able Liner (°C)	120 ±5	
Peel Strength of Melt-able Liner N/mm	>80/25	

Due to our program of continuous improvement, specifications may be subject to change.

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IFE Americas is a global provider of sealing and retaining solutions to meet customer needs. We offer a wide range of clamps, couplings, straps, and sleeves, with in-house testing facilities and technical support.















IFE Americas USA 7000 Kensington Road Brighton, MI 48116-8334 Phone: +1 (248) 446-1900 E-mail: info@ife-group.com IFE Americas México Bernardo Quintana 7001 Torre 2 – 813 Col. Centro Sur. Querétaro, Qro. 76090

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SE-115 22 Stockholm

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