



## 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](http://www.ife-group.com)



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# IFE-DWT

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

Size Inches (mm)	As Supplied (mm)		After Heating (mm)	
	Minimum ID	Nominal Wall	Minimum ID	Wall-thickness
1/8" (3)	3.0	0.4	1.00	0.85±0.28
3/16" (5)	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)

Item	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 aging Tensile Strength(MPa)	≥7.3
After aging Ultimate Elongation (%)	≥100
Volume Resistivity(Ω.cm)	≥10 <sup>13</sup>
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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ISO 9001:2015

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.



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