

DWFR

Dual Wall, Highly Flame-Retardant, UL VW-1 Rated Heat-Shrinkable Tubing

Product Facts

- Highly flame-retardant with UL VW-1 flammability rating
- 3:1 and 4:1 shrink ratios provide design versatility
- Moisture-resistant seal
- Withstands mechanical stress for increased product reliability
- RoHS compliant



Applications

DWFR is a highly flame-retardant, high shrink ratio, dual wall tubing with a UL VW-1 flammability rating. Made from a polyolefin jacket with an integrally bonded meltable thermoplastic adhesive inner wall, it is designed to insulate and environmentally seal and protect components and other electrical connections and terminations. It bonds to a wide variety of plastic, rubber and metal substrates.

This black tubing's 3:1 and 4:1 shrink ratios allow only a limited number of sizes to cover and protect a broad range of irregularly shaped substrates with widely varying dimensions. It is suitable for sealing and protecting connector-to-cable transitions, repairing damaged cable jackets, creating and sealing breakouts in harnesses, and more.

Installation

Minimum shrink temperature: 60°C [140°F]
Minimum full recovery temperature: 110°C [256°F]

Operating Temperature Range

-40°C to 110°C
[-40°F to 230°F]

Specifications/Approvals

Series	UL 	Raychem
DWFR	E35586 VW-1 600 V, 125°C	DWFR SCD

Available in:

Americas

Europe

Asia Pacific

DWFR (Continued)**Product Dimensions**

Size	Inside Diameter		Recovered Wall Thickness*	
	Minimum Expanded as Supplied	Maximum Recovered After Heating	Nominal Total Wall After Heating	Minimum Adhesive Wall After Heating
3:1				
3/1	3.0 [0.118]	1.0 [0.039]	1.12 ± 0.25 [0.044 ± 0.010]	0.25 [0.010]
6/2	6.0 [0.236]	2.0 [0.079]	1.14 ± 0.25 [0.045 ± 0.010]	0.25 [0.010]
9/3	9.0 [0.354]	3.0 [0.118]	1.40 ± 0.25 [0.055 ± 0.010]	0.56 [0.022]
12/4	12.0 [0.472]	4.0 [0.157]	1.78 ± 0.36 [0.070 ± 0.014]	0.58 [0.023]
19/6	19.0 [0.748]	6.0 [0.236]	2.25 ± 0.50 [0.088 ± 0.020]	0.58 [0.023]
24/8	24.0 [0.945]	8.0 [0.315]	2.54 ± 0.50 [0.100 ± 0.020]	0.79 [0.031]
40/13	40.0 [1.575]	13.0 [0.512]	2.54 ± 0.50 [0.100 ± 0.020]	0.86 [0.034]
4:1				
4/1	4.0 [0.157]	1.0 [0.039]	1.12 ± 0.25 [0.044 ± 0.010]	0.25 [0.010]
8/2	8.0 [0.315]	2.0 [0.079]	1.14 ± 0.25 [0.045 ± 0.010]	0.25 [0.010]
12/3	12.0 [0.472]	3.0 [0.118]	1.40 ± 0.25 [0.055 ± 0.010]	0.56 [0.022]
16/4	16.0 [0.630]	4.0 [0.157]	1.78 ± 0.36 [0.070 ± 0.014]	0.58 [0.023]
24/6	24.0 [0.945]	6.0 [0.236]	2.25 ± 0.50 [0.088 ± 0.020]	0.58 [0.023]
32/8	32.0 [1.260]	8.0 [0.315]	2.54 ± 0.50 [0.100 ± 0.020]	0.79 [0.031]
52/13	52.0 [2.047]	13.0 [0.512]	2.54 ± 0.50 [0.100 ± 0.020]	0.86 [0.034]

*Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)
Size selection	Always order the largest size that will shrink snugly over the component to be covered.	
Standard packaging	In 1.2-meter [4-foot] lengths.	
Ordering description	Specify product name, size, color and packaging (for example DWFR-3/1-0-STK).	