


Cross Reference	
BSTSFR, SSTFR, FCSM	Raychem/Tyco
FCFW	DSG-Canusa
HDT, ITCSE	3M



UPHWFR

UNION POLYMER HEAVY WALL FLAME RETARDANT POLYOLEFIN





Heat shrink ratio: 3 to 1

Cross-linked heavy wall polyolefin

Flame retardant meets UL-224 VW-1 standard

FEATURES AND APPLICATIONS

- Heavy wall cross linked polyolefin excellent for insulation and abrasion protection
- No adhesive - can be removed easily
- Flame retardant meets UL-224 VW-1 standard
- RoHS compliant
- Standard color: Black, Red is available on request
- Operating temperature: -55°C to 105°C;
- Shrink temperature: 135°C

DIMENSIONS (HEAT SHRINK RATIO 3:1)

Product Order Number	Internal Diameter As Supplied		Internal Diameter Recovered		Wall Thickness (Nominal) Recovered	
	inch	mm	inch	mm	inch	mm
UPHWFR-0350-9/3	0.35	9.0	0.12	3.0	0.08	2.0
UPHWFR-0500-12/4	0.47	12.0	0.16	4.0	0.08	2.0
UPHWFR-0750-19/6	0.75	19.0	0.24	6.0	0.11	2.7
UPHWFR-1100-28/6	1.10	28.0	0.24	6.0	0.12	3.1
UPHWFR-1300-33/8	1.30	33.0	0.31	8.0	0.12	3.1
UPHWFR-1500-40/12	1.57	40.0	0.47	12.0	0.14	3.6
UPHWFR-1700-45/12	1.77	45.0	0.47	12.0	0.14	3.6
UPHWFR-2150-55/16	2.17	55.0	0.63	16.0	0.16	4.0
UPHWFR-2500-65/19	2.56	65.0	0.75	19.0	0.16	4.0
UPHWFR-2950-75/22	2.95	75.0	0.87	22.0	0.16	4.0
UPHWFR-3300-85/25	3.35	85.0	0.98	25.0	0.16	4.0
UPHWFR-3700-95/29	3.74	95.0	1.14	29.0	0.16	4.0
UPHWFR-4500-115/34	4.53	115.0	1.34	34.0	0.17	4.3

Standard length: 4 FT (1.22 meter). Customized lengths are available on request.

TECHNICAL DATA

	Property	Test method	Values
Physical	Tensile strength	ASTM D2671	≥10.4 MPa
	Breakdown elongation	ASTM D2671	≥350%
Aging (158°C/168hrs)	Tensile strength	ASTM D2671	≥10.4 MPa
	Breakdown elongation	ASTM D2671	≥300%
	Water absorption (23°C/336h)	ASTM D570	≤0.5%
	Density	ASTM D2671	1.2~1.3
	Low temperature flexibility(-40°C/4hrs)	ASTM D2671	No cracking
	Heat shock (250°C/4hrs)	ASTM D2671	No drop, No flow
	Hardness (Shore D)	ASTM D2671	≥42 HD
	Peel strength to XLPE	ASTM D2671	110 N/25cm
	Peel strength to steel	ASTM D2671	80 N/25cm
Electrical	Volume resistivity	ASTM D2671	≥10 ¹⁴ Ω.cm
	Dielectric strength	ASTM D2671	≥15 KV/mm
Chemical	Flammability	UL224	VW-1

ORDERING

- Please specify: (1) Product Order Number
(2) Color
(3) Length
(4) Quantity in pieces, and
(5) Printing options (Standard Union Polymer mark, Customized mark, or Unprinted)

Order Example: UPHWFR-1500-40/12, Black, 4 FT, 2000 pieces, Unprinted

Once a purchase order is received

Order confirmation will be sent from Union Polymer within 12 hours

All in-stock products will be shipped from our Ohio warehouse within 48 hours