

## XFFR

### Halogen-Free, Flame-Retardant, Heat-Shrinkable Tubing

#### Product Facts

- Emits minimal amounts of toxic or acid gasses during combustion
- Meets performance requirements of MIL-C-24640 and MIL-C-24643 cable jackets
- Resists moisture, fungus, and weathering
- Available in expansion ratios as high as 3:1
- XFFR has the following approvals:
  - ABS (American Bureau of Shipping)
  - Lloyd's (Lloyd's Register of Shipping)
- RoHS compliant



#### Applications

XFFR halogen-free tubing can be used for re-jacketing and repairing halogen-free cables in any enclosed area where a flame-retardant, halogen-free environment is required. These environments include tunnels, buildings, mass transit vehicles, and ships. When installed with S-1305 tape, the tubing can also be used in applications requiring water sealing and protection from abrasion and corrosion.

#### Installation

Minimum shrink temperature: 70°C [158°F]  
 Minimum full recovery temperature: 121°C [250°F]

#### Operating Temperature Range

-55°C to 110°C  
 [-67°F to 230°F]

#### Specifications/Approvals

Series	Military	Industry	Raychem
XFFR	MIL-C-24640 MIL-C-24643	NES 713 NES 711	RW-2016

Available in:	Americas	Europe	Asia Pacific
	■	■	■

**XFFR** (Continued)

**Product Dimensions**

Size	Inside Diameter		Recovered Wall Thickness*
	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating (Nominal)
XFFR-03	7.62 [0.300]	2.54 [0.100]	2.03 [0.080]
XFFR-04	10.16 [0.400]	3.81 [0.150]	2.03 [0.080]
XFFR-07	19.05 [0.750]	5.59 [0.220]	2.03 [0.080]
XFFR-11	27.94 [1.100]	9.52 [0.375]	2.67 [0.105]
XFFR-15	38.10 [1.500]	12.70 [0.500]	3.05 [0.120]
XFFR-20	50.80 [2.000]	19.05 [0.750]	3.05 [0.120]
XFFR-30	76.20 [3.000]	31.75 [1.250]	4.06 [0.160]

\*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	1.2-meter [4-foot] or 7.5-meter [25-foot] lengths.	

**Part Numbering System**

**XFFR - 03 X 4 / NM**



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Heat Shrink Tubing and Sleeves](#) category:*

*Click to view products by [TE Connectivity](#) manufacturer:*

Other Similar products are found below :

[5685710001](#) [CR9960-000](#) [5734012004](#) [607381P039](#) [611112-000](#) [6284592002](#) [CX4711-000](#) [CZ1420-000](#) [D-306-38](#) [770-006S302](#) [770-010Y106W1](#) [770-020S705](#) [MFP-3/64"-Clear](#) [790-3012](#) [MHHT-4-15K2-G-104](#) [8003012003](#) [MIL-LT-1-1/2-4-SP](#) [MIL-LT-1-1/2-9-STK](#) [MIL-LT-1/2-2-STK](#) [MIL-LT-3-0-SP](#) [MIL-LT-3/32-0-SP](#) [MIL-LT-3/32-6-SP](#) [MIL-LT-3/4-4-STK](#) [MIL-LT-3/4-6-SP](#) [839602-000](#) [8423-6](#) [FP301-116-48"-Clear](#) [FP301-12-6"-Clear](#) [FP301-1/4-48"-White-Hdr](#) [FP301-18-48"-Black-Hdr](#) [FP301-1/8-6"-Black](#) [FP301-18-6"-Black-Bulk](#) [FP301-316-48"-Blue-Hdr](#) [912229N002](#) [R280637030](#) [HDCW-5515-1000](#) [HDT-0300-48A-BLACK](#) [HDT-0400-48A-Black](#) [HDT-0800-48A-RED](#) [HDT1100-48A-BLK](#) [HDT1500-48A-BLK](#) [HDT-2000-48A-Black](#) [RHW-70/20-1200/ADH-0](#) [DWP-125-0.450-4-55MM-CS879](#) [156082-000](#) [MT5500-3/8-X-SP](#) [MT-FEP-045-032-008-X-60IN](#) [EPS200-1/4-48"-Black](#) [EPS200-1-48"-Black](#) [EPS200-3/16-48"-Black](#)