

## **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 rejacketing 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	





### XFFR (Continued)

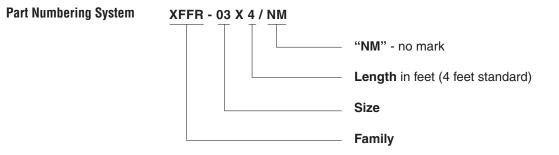
### **Product Dimensions**

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.		r 7.5-meter [25-foot] lengths.



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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-475-6222 Mexico: 52-55-1106-0800 L. & S. America: 54-11-4733-2200 Germany: 49-6251-133-1999 China: 86-400-820-6015 Japan: 81-44-844-8013 UK: 44-800-267-666

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 MIL-LT-3/4-6-SP
 MIL-LT-3/8-0-SP
 8159270001
 839602-000
 8423-6
 FP301-116 

 6"-Black
 FP301-1/2-48"-Black
 FP301-12-48"-Black-Hdr
 FP301-1/4-48"-Black
 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
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 FP301-332-6"-Black
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