# X2-9.0-0-FSP-SM ✓ ACTIVE

### RAYCHEM | RAYCHEM SWFR X2

TE Internal #: EM7490-000

Black, 2:1, Single Wall Tubing, Shrinks To 4.5 mm [.177 in], ZEROHAL Polyolefin, 9.3 mm [.366 in] Inner Diameter, Flame-

Retardant, RAYCHEM SWFR X2

View on TE.com >



Heat Shrink Tubing > SWFR-X2 Heat Shrink Tubing





Primary Product Color: Black

Wall Type: Single Wall

Expanded Inside Diameter (Min): 9.3 mm [ .366 in ]
Recovered Inside Diameter (Max): 4.5 mm [ .177 in ]

Shrink Ratio: 2:1

All SWFR-X2 Heat Shrink Tubing (21)

### **Features**

#### **Product Type Features**

Product Type realures	
Wall Type	Single Wall
Electrical Characteristics	
Operating Voltage (Max)	.6 kV
Body Features	
Fluid Type	Water
Primary Product Color	Black
Shrink Ratio	2:1
Primary Product Material	ZEROHAL Polyolefin
Flexibility	Very Flexible
Dimensions	
Recovered Wall Thickness (Nominal)	.56 mm[.022 in]
Expanded Inside Diameter (Min)	9.3 mm[.366 in]
Recovered Inside Diameter (Max)	4.5 mm[.177 in]
Usage Conditions	

70 °C

Shrink Temperature (Min)



Tubing Flammability Type	Flame-Retardant
Operating Temperature Range	-30 – 125 °C
Recovery Temperature	90 °C
Operation/Application	
Mechanical Resistance	Abrasion
Product Availability	
Applicable Region	Global
Packaging Features	
Packaging Method	Spool
Other	
Meets Low Outgassing Requirements	No
Product Source	China

## **Product Compliance**

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

#### Product Compliance Disclaimer

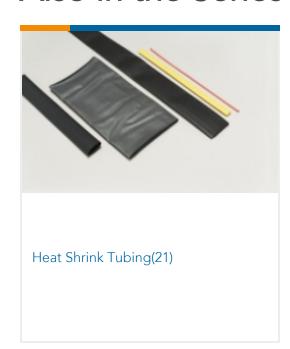
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach



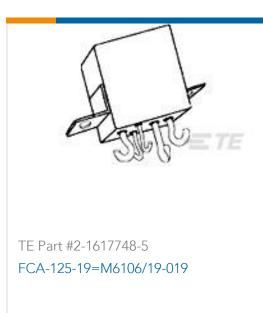
## **Compatible Parts**



## Also in the Series | RAYCHEM SWFR X2



## Customers Also Bought

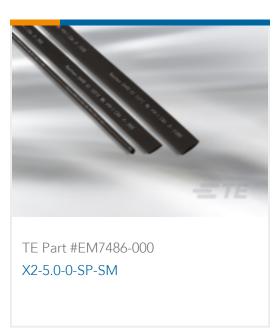




















### **Documents**

**Product Drawings** 

X2-9.0-0-FSP-SM

English

X2-9.0-0-FSP-SM

English

## Datasheets & Catalog Pages

Highly Flame-Retardant, Zero halogen, Low Recovery Temperature, Metric-Sized Heat-Shrinkable Tubing

English

**Product Specifications** 

**Application Specification** 

English