

X2-2.0-0-SP-SM ✓ ACTIVE



RAYCHEM | RAYCHEM SWFR X2

TE Internal #: EM7481-000

Black, 2:1, Single Wall Tubing, Shrinks To .039 in [1 mm], ZEROHAL

Polyolefin, .094 in [2.4 mm] 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): **2.4 mm [.094 in]**

Recovered Inside Diameter (Max): **1 mm [.039 in]**

Shrink Ratio: **2:1**

[All SWFR-X2 Heat Shrink Tubing \(21\)](#)

Features

Product Type Features

| | |
|-----------|-------------|
| 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) | .44 mm[.017 in] |
| Expanded Inside Diameter (Min) | 2.4 mm[.094 in] |
| Recovered Inside Diameter (Max) | 1 mm[.039 in] |

Usage Conditions

| | |
|--------------------------|-------|
| Shrink Temperature (Min) | 70 °C |
|--------------------------|-------|



| | |
|-----------------------------|-----------------|
| 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

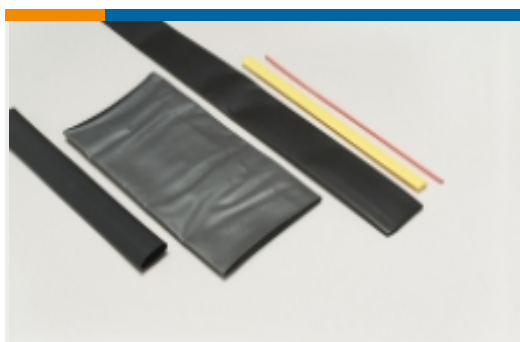
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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



TE Part # EG1114-000
CV1981-ST-230V1600W-EU

Also in the Series | RAYCHEM SWFR X2



Heat Shrink Tubing(21)

Customers Also Bought



TE Part #926307-1
6P UNIV.M-N-L.CAP



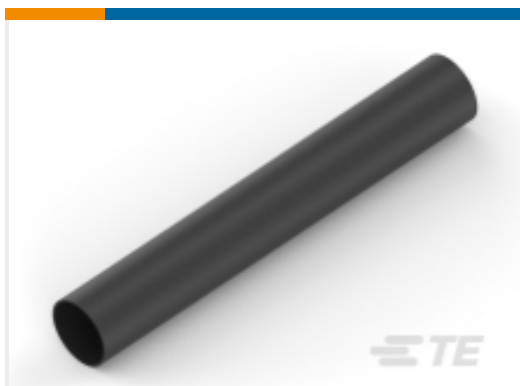
TE Part #350777-4
02P UMNL PLUG HSG UL94V0



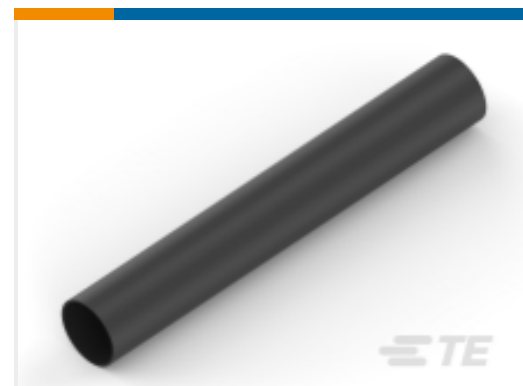
TE Part #794269-1
02P UMNL INTERFACE SEAL



TE Part #770377-1
UMNL II KEYING PLUG



TE Part #NB09312001
ATUM 3:1 Heat Shrink Tubing



TE Part #EM7487-000
SWFR-X2 Heat Shrink Tubing



TE Part #EM7550-000
X4-25.0-0-FSP-SM



TE Part #794270-1
02P UMNL WIRE SEAL

Documents

Product Drawings

X2-2.0-0-SP-SM

English



X2-2.0-0-SP-SM

English

Datasheets & Catalog Pages

[Highly Flame-Retardant, Zero halogen, Low Recovery Temperature, Metric-Sized Heat-Shrinkable Tubing](#)

English

Product Specifications

[Application Specification](#)

English