# DWFR-52/13-0-STK ✔ ACTIVE

RAYCHEM | RAYCHEM DWFR

TE Internal #: EH2301-000

Heat Shrink Tubing, Black, 4:1, Dual Wall, Shrinks To 13 mm [.512 in], Irradiated Modified Polyolefin, 52 mm [2.047 in] Expanded Inside, RAYCHEM DWFR

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Heat Shrink Tubing > DWFR Heat Shrink Tubing



Tubing Product Type: **Heat Shrink Tubing**

Primary Product Color: **Black**

Wall Type: **Dual Wall**

Expanded Inside Diameter (Min): **52 mm [ 2.047 in ]**

Recovered Inside Diameter (Max): **13 mm [ .512 in ]**

All DWFR Heat Shrink Tubing (16)

## Features

### Product Type Features

| | |
|---|---|
| Tubing Product Type | Heat Shrink Tubing |
| Wall Type | Dual Wall |

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage (Max) | .6 kV |

### Body Features

| | |
|---|---|
| Primary Product Color | Black |
| Shrink Ratio | 4:1 |
| Primary Product Material | Irradiated Modified Polyolefin |
| Flexibility | Semi-Flexible |

### Dimensions

| | |
|---|---|
| Recovered Wall Thickness (Nominal) | 2.54 mm[.1 in] |
| Product Length | 1220 mm[48 in] |
| Recovered Wall Thickness (Tolerance) | .5 mm[.02 in] |
| Expanded Inside Diameter (Min) | 52 mm[2.047 in] |
| Recovered Inside Diameter (Max) | 13 mm[.512 in] |
| Tubing Size Range | 13 – 52 mm[.512 – 2.047 in] |

## Usage Conditions

| | |
|---|---|
| Resistance Properties | Moisture |
| Shrink Temperature (Min) | 60 °C |
| Tubing Flammability Type | Highly Flame-Retardant |
| Operating Temperature Range | -40 – 110 °C[-40 – 230 °F] |
| Recovery Temperature | 110 °C |

## Operation/Application

| | |
|---|---|
| Mechanical Resistance | Fluids, Mechanical Damage, Strain Relief |

## Product Availability

| | |
|---|---|
| Applicable Region | Global |

## Packaging Features

| | |
|---|---|
| Packaging Method | Bag & Box |

## Other

| | |
|---|---|
| Meets Low Outgassing Requirements | No |
| Product Source | Czech Republic |

# 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 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JUNE 2025 (250)<br>SVHC > Threshold:<br>DBMC (5% in 23647975030)<br>**Article Safe Usage Statements:**<br>Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
| 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 # 1-2234800-4
RBK-X1 CE, W/ AIR COOLING



TE Part # 2234800-2
RBK-X1 CE STD



TE Part # 2394980-1
MOD 105 TUN OVEN, 69" ENTRY, STARDARD



TE Part # 2375310-2
XB17 Belt Heater, 110V



TE Part # 1-2376800-4
RBK-X1C CE, W/ AIR COOLING



TE Part # 1-2234800-1
RBK-X1, AUTO TRIGGER



TE Part # 2375310-1
XB17 Belt Heater, 220V



TE Part # 2375320-2
XB19 Belt Heater, 150mm (6'') Version



TE Part # 2326489-1
MODEL 105 TUNNEL OVEN, 36" ENTRY, STANDA



TE Part # 1-2376800-3
RBK-X1C, W/ AIR COOLING

TE Part # 1-2375320-1
XB19 BELT HEATER, AUTO SHUT OFF



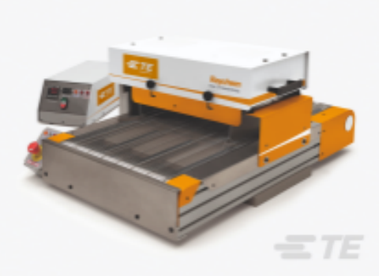
TE Part # 2234800-1
RBK-X1 STD



TE Part # 2375320-1
XB19 Belt Heater, STD



TE Part # 2376800-1
RBK-X1C STD



TE Part # 955018-000
CLTEQ-M105-TUNNEL-OVEN



TE Part # 2376800-2
RBK-X1C CE STD

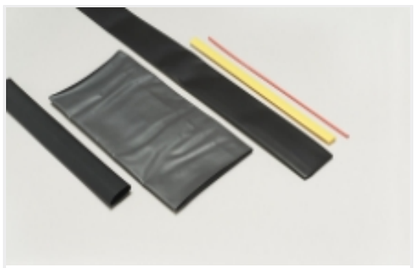


TE Part # 1-2234800-3
RBK-X1, W/ AIR COOLING

## Also in the Series | RAYCHEM DWFR



Dual Wall Tubing(16)



Heat Shrink Tubing(16)

## Customers Also Bought



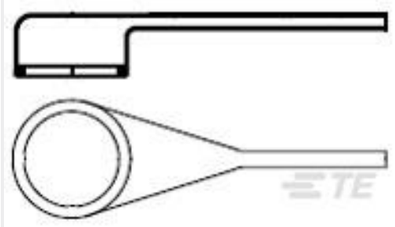
TE Part #HD30-18BT-BK
BOOT, 18SZ, ST, BLK



TE Part #1062-20-0222
SOC, SF, SIZE 20, 16-22, NI/NI



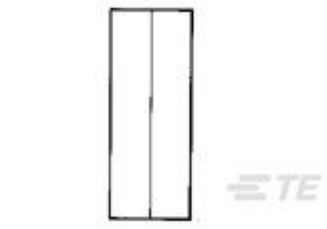
TE Part #DT6P-BT-BK
BOOT, 6P, REC, ST, BLK



TE Part #811197-000
222D921-12-0



TE Part #EEC-325X4A
ENCLOSURE, 3.25 X 4, BLK, VENT



TE Part #34130
SPLICE,SOLIS PARA 22-16



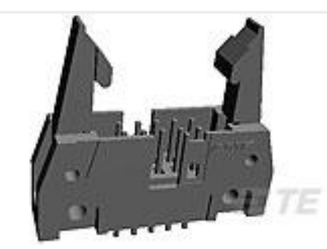
TE Part #641945-1
03P UMNL STR/REL



TE Part #1622700-1
LR2 1% 1K0



TE Part #1658677-1
HDP-22,OVRMLD,PLUG KIT,SIZE 3,



TE Part #5499923-8
A/L UNIV HDR 34P VERT LAT

## Documents

### Product Drawings

DWFR-52/13-0-STK

English

### Datasheets & Catalog Pages

Selecting_Correct_Tubing_1216

English

Application Tooling for Raychem Heat Shrink Product

English

Measuring_Single_Wall_Tubing

English

DWFR Heat Shrink Tubing product flyer

English

### Product Specifications

Application Specification

English