

333-41509

Article Number: 333-41509

Heat Shrink Tubing, 4FT-Stick, 3:1, 3/16", 4.8/1.5 dia., Polyolefin, Black, 20/pkg

HellermannTyton



## Base Data

Local Order Number 333-41509

Type TFN31-ST-4.5/1.5 BK

Color Black (BK)

**Features and Benefits**

- Thin wall, flexible 3 to 1 shrink ratio material accommodates a wide range of component shapes and diameters.
- Meets UL224 VW-1 specifications, making it ideal for high heat applications (excludes clear tubing).
- Polyolefin material provides excellent insulation and mechanical strength with good resistance to solvents, oils and fuels.
- Available in bulk reels, sticks and convenience bags (HIS-3 bags), for small to large volume applications.

**Product Description** TFN31 series heat shrink tubing features a flexible, thin wall and highly flame retardant polyolefin material with a higher operating temperature range than general-use heat shrink tubing. and offers good resistance to solvents, oils and fuels. The 3 to 1 shrink ratio accommodates a variety of component shapes and sizes. TFN31 tubing is available in bulk reels, sticks and convenience bags (HIS-3 bags), for projects of all sizes.

Printable (Yes/No) No

Shrink Ratio 3:1

Variant Thin-Wall

Short Description Heat Shrink Tubing, 4FT-Stick, 3:1, 3/16", 4.8/1.5 dia., Polyolefin, Black, 20/pkg

With inner glue (Yes/No) ETIM No

## Product Dimensions

Length L (metric) 1.22 m

Wall Thickness WT (imperial) 0.024 "

Wall Thickness WT (metric) .60 mm

Recovered Diameter D (metric) 1.5 mm

Recovered Diameter D (imperial) 0.094 "

Supplied Diameter D (imperial) 0.188 "

Supplied Diameter D (metric) 4.8 mm

## Logistics and Packaging

Quantity per lengths

Package Quantity (imperial) 20

## Material and Specifications

Material Polyolefin, cross-linked (PO-X)

Material Shortcut PO-X

Dielectric Strength (metric) 20 kV/mm

Elongation at break 600%

<b>Flammability</b>	UL224 VW-1
<b>Halogenfree</b>	No
<b>Shrink Temperature</b>	+212 °F (+100 °C)
<b>Operating Temperature</b>	-67 °F to +275 °F (-55 °C to +135 °C)
<b>ROHS Conformity</b>	Yes
<b>Certification / Specification</b>	UL224 125 °C 600V VW-1 CSA
<b>Tensile Strength (MPa)</b>	14 MPa
<b>UL Recognized (US)</b>	Yes
<b>Volume Resistance (Ohm cm)</b>	10 <sup>11</sup> Ω cm