

## Specification Sheet

Part Number: 333-41503

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.



Heat Shrink Tubing, Bulk Reel, 3:1 Shrink Ratio, 1/2", 12.7/4.0 Dia, PO, Black, 300 ft/reel

Article Number 333-41503

Type TFN31 12/4

Color Black (BK)

Quantity Per reel

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.

Short Description	Heat Shrink Tubing, Bulk Reel, 3:1 Shrink Ratio, 1/2", 12.7/4.0 Dia, PO, Black, 300 ft/reel
Global Part Name	TFN31 12/4-PO-X-BK
Length L (Imperial)	300.0
Length L (Metric)	91.4
Variant	Thin-Wall
Nominal Diameter (Imperial)	0.5
Nominal Diameter (Metric)	12
Wall Thickness WT (Imperial)	.031
Wall Thickness WT (Metric)	0.80
Material	Polyolefin, cross-linked (PO-X)
Material Shortcut	PO-X
Flammability	UL 224 VW-1
Halogen Free	No
UV Resistant (Yes/No)	No

Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Reach Compliant (Article 33)	Yes
ROHS Compliant	Yes
Certification/Specification	CSA   C22.2 no. 198.1-06 UL   ANSI/UL 224
UL Recognized (US)	Yes
UL Recognized (US and Canada)	Yes
Package Quantity (Imperial)	300
Package Quantity (Metric)	91.44
Customs Number	3926909988

## About HellermannTyton

HellermannTyton is a global manufacturer of cable management and identification solutions for automotive, solar, electrical, construction, industrial automation, broadband and other OEM markets. The company's integrated approach to product design, sustainability, production, quality assurance and delivery is optimized to benefit local and global customers. HellermannTyton operates in 39 countries, with North American headquarters in Milwaukee, Wisconsin. ([www.hellermann.tyton.com](http://www.hellermann.tyton.com)).

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