

## Specification Sheet

Part Number: 309-60294

Thin, 2 to 1 shrink ratio tubing provides insulation and abrasion protection for wires and cables.

Flammability rating of UL224 VW-1 for use in applications requiring the highest degree of flame protection (excludes clear tubing).

Flexible-yet-durable material resists most common oils, chemicals and fluids.

Available in a variety of diameters and colors for identifying and marking wires and cables.

Available in mini reels, bulk reels, and sticks for small to large volume applications.



Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio, 3/16", 4.8/2.4 Dia, PO, Black, 50 ft/reel

|                |               |
|----------------|---------------|
| Article Number | 309-60294     |
| Type           | TFN21 4.8/2.4 |
| Color          | Black (BK)    |
| Quantity Per   | pack          |

|                                |  |
|--------------------------------|--|
| Product Description            | TFN21 is a highly flexible thin wall heat shrink tubing with a 2 to 1 shrink ratio and excellent flame retardant properties. In addition to providing insulation and abrasion protection for wires and cables, the polyolefin material also offers resistance to oils, solvents and chemicals. Available in mini reels, bulk reels and sticks, for small to large volume applications. |
| Short Description              | Heat Shrink Tubing, Mini Reel, 2:1 Shrink Ratio, 3/16", 4.8/2.4 Dia, PO, Black, 50 ft/reel   |
| Global Part Name               | TFN21 4.8/2.4-PO-X-BK  |
| Length L (Metric)              | 300  |
| Variant                        | Thin-Wall  |
| Bundle Diameter Min (Imperial) | 0.09   |
| Bundle Diameter Min (Metric)   | 2.4  |
| Bundle Diameter Max (Imperial) | 0.18   |
| Bundle Diameter Max (Metric)   | 4.8  |
| Nominal Diameter (Imperial)    | 0.19   |
| Nominal Diameter (Metric)      | 4.8  |
| Wall Thickness WT (Imperial)   | .019   |
| Wall Thickness WT (Metric)     | 0.48   |

|                               |                                   |
|-------------------------------|-----------------------------------|
| Material                      | Polyolefin, cross-linked (PO-X)   |
| Material Shortcut             | PO-X                              |
| Flammability                  | UL 224 VW-1                       |
| Halogen Free                  | No                                |
| UV Resistant (Yes/No)         | No                                |
| Use Conditions                | For Indoor and Outdoor Use        |
| Operating Temperature         | -67°F to +275°F (-55°C to +135°C) |
| Reach Compliant (Article 33)  | Yes                               |
| ROHS Compliant                | Yes                               |
| Certification/Specification   | CSA UL   ANSI/UL 224              |
| UL Recognized (US)            | Yes                               |
| UL Recognized (US and Canada) | Yes                               |
| Package Quantity (Imperial)   | 50                                |
| Package Quantity (Metric)     | 15.24                             |
| Customs Number                | 3926909988                        |

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