



### Heat Shrinkable Tubing 3:1 flexible and coloured

#### TF31

If higher fire protection is a requirement heat shrinkable tubing TF31 is a good choice. It is used for protection insulation and identification wires, cables and light duty harnesses.

#### Features and Benefits

- Thin walled, very flexible polyolefin tubing
- Few sizes cover a wide range of diameters allowing reduced inventory
- Fast shrinking and low shrink temperature
- Flame-retardant, UL224 VW1 listed



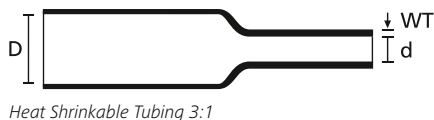
**Detailed Information about Heatguns please refer to page 529.**



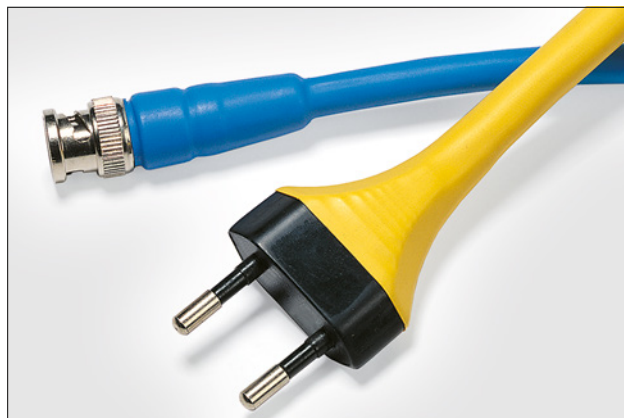
**Cut lengths available on request. Please contact us!**



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TF31 with 3:1 shrink ratio allowing for a wider range of application.

|  |                                 |
|--|---------------------------------|
| <b>MATERIAL</b>                            | Polyolefin, cross-linked (PO-X) |
| <b>Shrink Ratio</b>                        | 3:1                             |
| <b>Operating Temperature</b>               | -55 °C to +135 °C               |
| <b>Minimum Shrink Temperature</b>          | +90 °C                          |
| <b>Longitudinal change after shrinkage</b> | +5 %/-15 %                      |
| <b>Dielectric Strength</b>                 | 37 kV/mm                        |
| <b>Flammability</b>                        | ASTM D876                       |
| <b>Specifications</b>                      | CSA, UL224 125 °C 600V VW-1     |

| TYPE         | Supplied Ø D min. | Recov. Ø d max. | Wall (WT) | Reel Length | Colour              | Article-No. |
|--------------|-------------------|-----------------|-----------|-------------|---------------------|-------------|
| TF31-1.5/0.5 | 1.5               | 0.5             | 0.50      | 30 m        | Black (BK)          | 333-30150   |
|              | 1.5               | 0.5             | 0.50      | 30 m        | Blue (BU)           | 333-30156   |
|              | 1.5               | 0.5             | 0.50      | 30 m        | Green (GN)          | 333-30155   |
|              | 1.5               | 0.5             | 0.50      | 30 m        | Green-Yellow (GNYE) | 333-30157   |
|              | 1.5               | 0.5             | 0.50      | 30 m        | Red (RD)            | 333-30152   |
|              | 1.5               | 0.5             | 0.50      | 30 m        | White (WH)          | 333-30159   |
|              | 1.5               | 0.5             | 0.50      | 30 m        | Yellow (YE)         | 333-30154   |
|              | 1.5               | 0.5             | 0.50      | 300 m       | Black (BK)          | 333-20150   |
| TF31-3/1     | 3.0               | 1.0             | 0.60      | 30 m        | Black (BK)          | 333-30300   |
|              | 3.0               | 1.0             | 0.60      | 30 m        | Blue (BU)           | 333-30306   |
|              | 3.0               | 1.0             | 0.60      | 30 m        | Green (GN)          | 333-30305   |
|              | 3.0               | 1.0             | 0.60      | 30 m        | Green-Yellow (GNYE) | 333-30307   |
|              | 3.0               | 1.0             | 0.60      | 30 m        | Red (RD)            | 333-30302   |
|              | 3.0               | 1.0             | 0.60      | 30 m        | White (WH)          | 333-30309   |
|              | 3.0               | 1.0             | 0.60      | 30 m        | Yellow (YE)         | 333-30304   |
|              | 3.0               | 1.0             | 0.60      | 150 m       | Black (BK)          | 333-40300   |

All dimensions in mm. Subject to technical changes.  
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.



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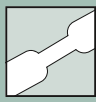
Heat Shrinkable Tubing 3:1

| TYPE      | Supplied<br>Ø D min. | Recov.<br>Ø d max. | Wall<br>(WT) | Reel<br>Length | Colour              | Article-No. |
|-----------|----------------------|--------------------|--------------|----------------|---------------------|-------------|
| TF31-6/2  | 6.0                  | 2.0                | 0.70         | 30 m           | Black (BK)          | 333-30600   |
|           | 6.0                  | 2.0                | 0.70         | 30 m           | Blue (BU)           | 333-30606   |
|           | 6.0                  | 2.0                | 0.70         | 30 m           | Green (GN)          | 333-30605   |
|           | 6.0                  | 2.0                | 0.70         | 30 m           | Green-Yellow (GNYE) | 333-30607   |
|           | 6.0                  | 2.0                | 0.70         | 30 m           | Red (RD)            | 333-30602   |
|           | 6.0                  | 2.0                | 0.70         | 30 m           | White (WH)          | 333-30609   |
|           | 6.0                  | 2.0                | 0.70         | 30 m           | Yellow (YE)         | 333-30604   |
|           |                      | 6.0                | 2.0          | 0.70           | 150 m               | Black (BK)  |
| TF31-9/3  | 9.0                  | 3.0                | 0.80         | 30 m           | Black (BK)          | 333-30900   |
|           | 9.0                  | 3.0                | 0.80         | 30 m           | Blue (BU)           | 333-30906   |
|           | 9.0                  | 3.0                | 0.80         | 30 m           | Green (GN)          | 333-30905   |
|           | 9.0                  | 3.0                | 0.80         | 30 m           | Green-Yellow (GNYE) | 333-30907   |
|           | 9.0                  | 3.0                | 0.80         | 30 m           | Red (RD)            | 333-30902   |
|           | 9.0                  | 3.0                | 0.80         | 30 m           | White (WH)          | 333-30909   |
|           | 9.0                  | 3.0                | 0.80         | 30 m           | Yellow (YE)         | 333-30904   |
|           |                      | 9.0                | 3.0          | 0.80           | 150 m               | Black (BK)  |
| TF31-12/4 | 12.0                 | 4.0                | 0.85         | 30 m           | Black (BK)          | 333-31200   |
|           | 12.0                 | 4.0                | 0.85         | 30 m           | Blue (BU)           | 333-31206   |
|           | 12.0                 | 4.0                | 0.85         | 30 m           | Green (GN)          | 333-31205   |
|           | 12.0                 | 4.0                | 0.85         | 30 m           | Green-Yellow (GNYE) | 333-31207   |
|           | 12.0                 | 4.0                | 0.85         | 30 m           | Red (RD)            | 333-31202   |
|           | 12.0                 | 4.0                | 0.85         | 30 m           | White (WH)          | 333-31209   |
|           | 12.0                 | 4.0                | 0.85         | 30 m           | Yellow (YE)         | 333-31204   |
|           |                      | 12.0               | 4.0          | 0.85           | 100 m               | Black (BK)  |
| TF31-18/6 | 18.0                 | 6.0                | 1.00         | 30 m           | Black (BK)          | 333-31800   |
|           | 18.0                 | 6.0                | 1.00         | 30 m           | Blue (BU)           | 333-31806   |
|           | 18.0                 | 6.0                | 1.00         | 30 m           | Green (GN)          | 333-31805   |
|           | 18.0                 | 6.0                | 1.00         | 30 m           | Green-Yellow (GNYE) | 333-31807   |
|           | 18.0                 | 6.0                | 1.00         | 30 m           | Red (RD)            | 333-31802   |
|           | 18.0                 | 6.0                | 1.00         | 30 m           | White (WH)          | 333-31809   |
|           | 18.0                 | 6.0                | 1.00         | 30 m           | Yellow (YE)         | 333-31804   |
|           |                      | 18.0               | 6.0          | 1.00           | 60 m                | Black (BK)  |

All dimensions in mm. Subject to technical changes.  
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.



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Detailed Information about Heatguns please refer to page 529.

| TYPE       | Supplied<br>Ø D min. | Recov.<br>Ø d max. | Wall<br>(WT) | Reel<br>Length | Colour              | Article-No. |
|------------|----------------------|--------------------|--------------|----------------|---------------------|-------------|
| TF31-24/8  | 24.0                 | 8.0                | 1.20         | 30 m           | Black (BK)          | 333-32400   |
|            | 24.0                 | 8.0                | 1.20         | 30 m           | Blue (BU)           | 333-32406   |
|            | 24.0                 | 8.0                | 1.20         | 30 m           | Green (GN)          | 333-32405   |
|            | 24.0                 | 8.0                | 1.20         | 30 m           | Green-Yellow (GNYE) | 333-32407   |
|            | 24.0                 | 8.0                | 1.20         | 30 m           | Red (RD)            | 333-32402   |
|            | 24.0                 | 8.0                | 1.20         | 30 m           | White (WH)          | 333-32409   |
|            | 24.0                 | 8.0                | 1.20         | 30 m           | Yellow (YE)         | 333-32404   |
|            | 24.0                 | 8.0                | 1.20         | 60 m           | Black (BK)          | 333-42400   |
| TF31-40/13 | 40.0                 | 13.0               | 1.25         | 30 m           | Black (BK)          | 333-34000   |
|            | 40.0                 | 13.0               | 1.25         | 30 m           | Blue (BU)           | 333-34006   |
|            | 40.0                 | 13.0               | 1.25         | 30 m           | Green (GN)          | 333-34005   |
|            | 40.0                 | 13.0               | 1.25         | 30 m           | Green-Yellow (GNYE) | 333-34007   |
|            | 40.0                 | 13.0               | 1.25         | 30 m           | Red (RD)            | 333-34002   |
|            | 40.0                 | 13.0               | 1.25         | 30 m           | White (WH)          | 333-34009   |
|            | 40.0                 | 13.0               | 1.25         | 30 m           | Yellow (YE)         | 333-34004   |
|            | 40.0                 | 13.0               | 1.25         | 60 m           | Black (BK)          | 333-24000   |

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