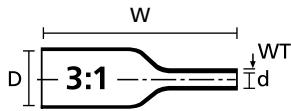


## Technical data sheet

Article number:  
553-71013

**TULT4.8-1.6DS-1x50YE**



|                                                          |                                                                                                                                                                 |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Group</b>                                     | Shrinkable markers "Ladder Style", thermal transfer                                                                                                             |
| <b>Product Family</b>                                    | TULT DS – 3:1 Military and Electronics "Ladder Style"                                                                                                           |
| <b>Material</b>                                          | Polyolefin, cross-linked (PO-X)                                                                                                                                 |
| <b>Colour</b>                                            | Yellow (YE)                                                                                                                                                     |
|                                                          |                                                                                                                                                                 |
| <b>Dielectric Strength [Test method]</b>                 | 20 kV/mm [ASTM D2671]                                                                                                                                           |
| <b>Elongation at break [Test method]</b>                 | 300 % [ASTM D638]                                                                                                                                               |
| <b>Flammability</b>                                      | UL 224 VW-1                                                                                                                                                     |
| <b>Heat Aging Test [Test method]</b>                     | 168h/175°C [ASTM D638]                                                                                                                                          |
| <b>Heat Shock Test</b>                                   | 4h/250°C                                                                                                                                                        |
| <b>Longitudinal Change After Shrinkage [Test method]</b> | -15% max. [ASTM D2671]                                                                                                                                          |
| <b>Low Temperature Test [Test method]</b>                | 4h/-55°C [ASTM D2671]                                                                                                                                           |
| <b>Min. Shrink Temperature - °C</b>                      | +90 °C                                                                                                                                                          |
| <b>Operating Temperature</b>                             | -55 °C to +135 °C                                                                                                                                               |
| <b>Package Content packed in</b>                         | carton                                                                                                                                                          |
| <b>Pack Cont.</b>                                        | 1000 pcs.                                                                                                                                                       |
| <b>Print Method</b>                                      | thermal transfer print                                                                                                                                          |
| <b>Recommended Ribbon Type</b>                           | TTDTHOUT                                                                                                                                                        |
| <b>Recov. Ø d max.</b>                                   | 1.6 mm                                                                                                                                                          |
| <b>Shelf Life</b>                                        | 24 months                                                                                                                                                       |
| <b>Shrink Ratio</b>                                      | 3:1                                                                                                                                                             |
| <b>Specifications</b>                                    | ANSI/UL 224, C22.2 no. 198.1-99, MIL-STD-202H Method 215K                                                                                                       |
| <b>Storage conditions</b>                                | 50% relative humidity., The storage in the original packaging is recommended., Please avoid warehousing under impacts such as high humidity, heat and coldness. |
| <b>Supplied Ø D min.</b>                                 | 4.8 mm                                                                                                                                                          |
| <b>Test Method Tensile Strength</b>                      | ASTM D638                                                                                                                                                       |
| <b>Thermal Transfer Printer</b>                          | TT431, TT4030DS, TT4030                                                                                                                                         |
| <b>UL-File Number</b>                                    | E143529                                                                                                                                                         |
| <b>Volume Resistance [Test method]</b>                   | 10 <sup>16</sup> Ω cm [ASTM D257]                                                                                                                               |

|                  |         |
|------------------|---------|
| Wall (WT)        | 0.56 mm |
| Water Absorption | 0.20 %  |

