

**Ratings**

Voltage: 300 V  
Temperature: -25 ~ 80 °C  
Flammability: VW-1

**Conductor**

Conductor count: 2  
Gauge: 20 AWG 0.52 mm<sup>2</sup>  
Material: tinned copper strands  
Strand size:  $\varnothing 0.16 \times 26$   
Resistance at 20 °C: 36.7  $\Omega$  /km max

**Insulator**

Material: PVC  
Color: red, black  
Diameter:  $\varnothing 1.55 \pm 0.10$  mm  
Nominal thickness: 0.28 mm  
Resistance at 20 °C: 10 M $\Omega$  /km min

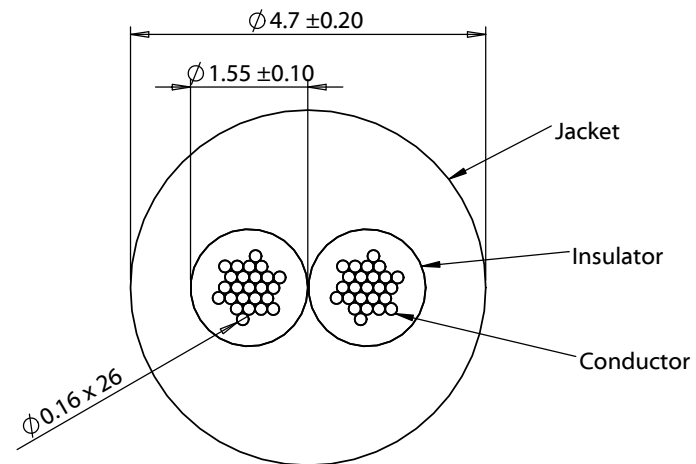
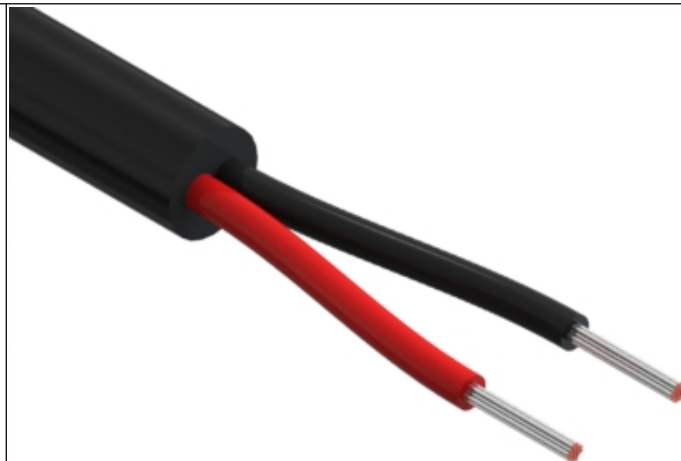
**Outer jacket**

Material: PVC  
Color: black  
Diameter:  $\varnothing 4.7 \pm 0.20$  mm  
Nominal thickness: 0.80 mm

**Wire marking:** E339579 UL AWM STYLE 2464 20 AWG 80°C  
300V VW-1 - - - cUL AWM I/II A 80°C 300V FT1 TENSILITY

**Tests**

Insulation tensile strength: 2.11 kgf/mm<sup>2</sup>  
Jacket tensile strength: 1.05 kgf/mm<sup>2</sup>  
After aging at 113 ± 2 °C for 7 days:  
    Minimum tensile strength 70 % original  
    Minimum elongation 65 % original  
Heat shock: 121 ± 1 °C /1 hour, no observed degradation  
Deformation: 121 ± 1 °C /1 hour, ≤ 50 %  
Cold bend: -10 ± 2 °C /1 hour, no observed cracking



|           |            |                                       |  |  |   |                          |                            |
|-----------|------------|---------------------------------------|--|--|---|--------------------------|----------------------------|
| Revision: | Date:      | Description:                          | Prepared:<br>AW  | Notes:   | <h1>TENSILITY</h1><br>tel 1.541.323.3228 800 877.670.7118<br>fax 1.541.323.4202 web tensility.com |                          |                            |
| A         | 01/22/2016 | Initial release                       | Digitally signed by AW<br>Date: 2018.09.06<br>14:39:57 -07'00'                                   | RoHS and REACH compliant   |   |                          |                            |
| A1        | 09/06/2018 | Increased operating temperature range | Verified:<br>PS  | Function test: no open, no short circuit, no intermittent                  | Size: A   | Part number:<br>30-00686 | Scale: 10:1   Sheet 1 of 1 |
|           |            |                                       | Digitally signed by PS<br>Date: 2018.09.06<br>15:30:15 -07'00'                                   | Description:<br>Wire, 2C TS, 20 AWG, UL2464, 300V, 80C, 4.70 mm, VW-1, PVC |   |                          |                            |
|           |            |                                       | Dimensions are in millimeters.<br>Tolerances:<br>X: ± 0.5 mm<br>X.X: ± 0.3 mm<br>X.XX: ± 0.05 mm |  |   |                          |                            |

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