

**Ratings**

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

**Conductor**

Conductor count: 8  
 Gauge: 28 AWG 0.09 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size:  $\phi 0.127 \times 7$   
 Resistance at 20 °C: 239  $\Omega$  /km max

**Insulator**

Material: PVC  
 Color: white, black, red, yellow, blue, green, orange, purple  
 Diameter:  $\phi 0.95 \pm 0.10$  mm  
 Nominal thickness: 0.26 mm  
 Resistance at 20 °C: 10 M $\Omega$  /km min

**Filler**

Material: cotton rope

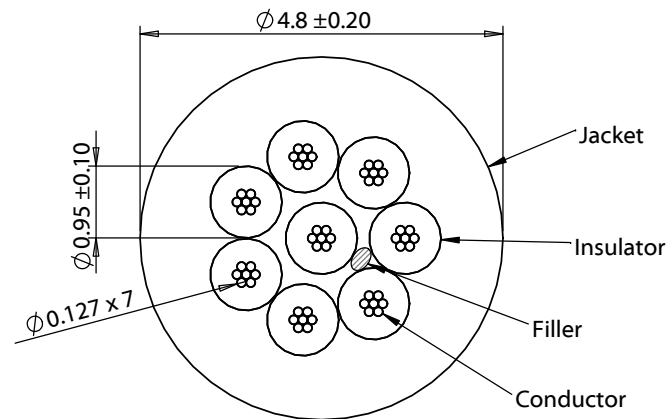
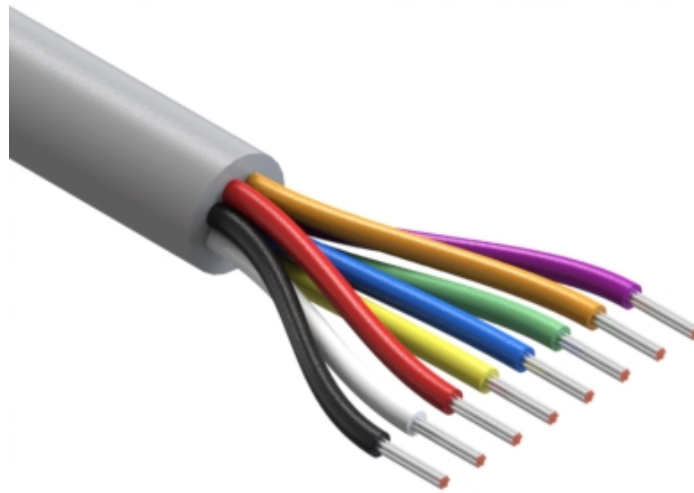
**Outer jacket**

Material: PVC  
 Color: black  
 Diameter:  $\phi 4.8 \pm 0.20$  mm  
 Nominal thickness: 0.83 mm

**Wire marking:** E339579 UL AWM STYLE 2464 28 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  $\pm 2$  °C for 7 days:  
 Minimum tensile strength 70 % original  
 Minimum elongation 65 % original  
 Heat shock: 121  $\pm 1$  °C /1 hour, no observed degradation  
 Deformation: 121  $\pm 1$  °C /1 hour,  $\leq 50$  %  
 Cold bend: -10  $\pm 2$  °C /1 hour, no observed cracking



|           |            |                                       |                                                                                                              |                                                           |                                                                                                                 |                                                                 |              |
|-----------|------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------|
| Revision: | Date:      | Description:                          | Prepared:                                                                                                    | Notes:                                                    | <h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118<br/>         fax 1.541.323.4202 web tensility.com</p> |                                                                 |              |
| A         | 10/13/2015 | Initial release                       | Verified:                                                                                                    | RoHS and REACH compliant                                  |                                                                                                                 |                                                                 |              |
| A1        | 1/26/2018  | Updated dimensions                    | Dimensions are in millimeters.<br>Tolerances:<br>X: $\pm 0.5$ mm<br>X.X: $\pm 0.3$ mm<br>X.XX: $\pm 0.05$ mm | Function test: no open, no short circuit, no intermittent |                                                                                                                 |                                                                 |              |
| A2        | 9/6/2018   | Increased operating temperature range |                                                                                                              | Description:                                              |                                                                                                                 | Wire, 8C TS, 28 AWG, UL2464, 300V, 80C, 4.8 mm, VW-1, PVC, gray |              |
|           |            |                                       | Size: A    Part number: 30-00524                                                                             |                                                           | Scale: 10:1                                                                                                     |                                                                 | Sheet 1 of 1 |

5

4

3

2

1