

**Ratings**

Temperature: -40 ~ 70 °C  
Voltage: 150 V

**Conductor**

Gauge: 32 AWG, 0.039 mm<sup>2</sup>  
Material: tinned copper strands  
Strand size:  $\phi 0.05 \times 19$  mm  
Resistance at 20 °C: 590  $\Omega$ /km

**Insulator**

Material: HDPE  
Color: black, white, yellow, red  
Outer diameter:  $\phi 0.55 \pm 0.05$  mm  
Nominal thickness: 0.15 mm  
Resistance at 20 °C: 1000 M $\Omega$ /km

**Shield**

Type: spiral  
Material: tinned copper strands  
Strand size:  $\phi 0.08$  mm  
Coverage: 90 % minimum

**Outer jacket**

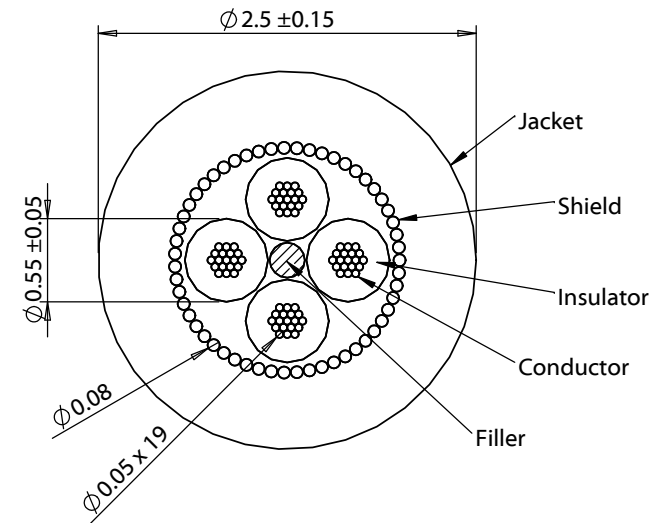
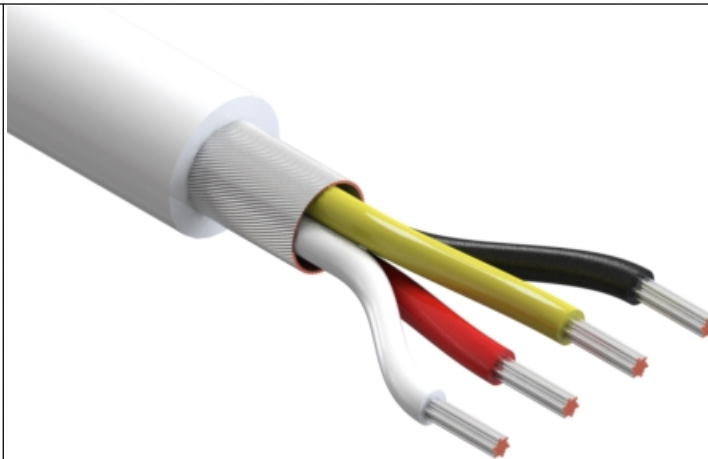
Material: TPU, 70 °C  
Color: cool gray 1C  
Nominal thickness: 0.50 mm  
Diameter:  $\phi 2.5 \pm 0.15$  mm

**Filler**

Material: aramid fiber

**Tests**

Tensile strength: 25.5 kgf  
Dielectric test: 1500 V dc for 1 minute without breakdown  
Bend test at 200 g,  $\pm 90^\circ$ , 30 cycles /min: 10,000 cycle minimum



| REVISION | DATE      | DESCRIPTION                             | PREPARED:                                                                  | NOTES                                                                                       | <div>TENSILITY</div> <div>20802 Sockeye Place #130<br/>Bend, OR 97701 USA<br/>tel 541.323.3228 fax 541.323.4202<br/>800 877.670.7118 www.tensility.com</div> |                         |              |
|----------|-----------|-----------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------|
| A        | 4/24/2015 | Initial release                         |                                                                            | RoHS and REACH compliant                                                                    |                                                                                                                                                              |                         |              |
| A1       | 1/13/2016 | Updated notes, corrected tolerances     | VERIFIED:                                                                  | Jacket meets ISO 10993 Biological Compatibility<br>Phthalate and halogen free               |                                                                                                                                                              |                         |              |
| A2       | 1/17/2019 | Changed filler material to generic name | DIMENSIONS ARE IN MILLIMETERS                                              | Function test: no open, no short, no intermittent                                           |                                                                                                                                                              |                         |              |
|          |           |                                         | TOLERANCES:<br>X: $\pm 0.5$ mm<br>X.X: $\pm 0.3$ mm<br>X.XX: $\pm 0.05$ mm | DESCRIPTION:<br>Wire, 4C TS, 32 AWG, 150V, 70C, 2.5 mm, spiral shield, TPU, 78A, white, WBL | SIZE<br>A                                                                                                                                                    | PART NUMBER<br>30-00446 |              |
|          |           |                                         |                                                                            |                                                                                             | SCALE: 20:1                                                                                                                                                  |                         | SHEET 1 OF 1 |

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