

### Ratings

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

### Conductor

Gauge: 28 AWG, 0.081 mm<sup>2</sup>  
Material: tinned copper strands  
Stranding:  $\phi 0.05 \times 40$   
Resistance at 20 °C: 240  $\Omega$ /km

### Insulator

Material: HDPE  
Color: black, white, red  
Outer diameter:  $\phi 0.7 \pm 0.10$  mm  
Nominal thickness: 0.15 mm  
Resistance at 20 °C: 100 M $\Omega$ /km

### Shield

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

### Outer jacket

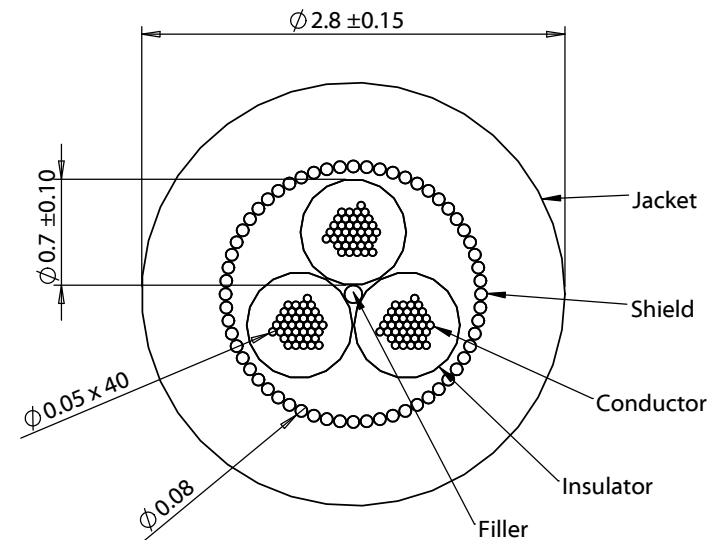
Material: TPU, 70 °C  
Color: black  
Nominal thickness: 0.55 mm  
Diameter:  $\phi 2.8 \pm 0.15$  mm

### Filler

Material: aramid fiber

### Tests

Tensile strength: 35.7 kgf  
Dielectric test: 1500 V dc for 1 minute without breakdown  
Bend test at 200 g,  $\pm 90^\circ$ , 30 cycles /min: 15,000 cycle minimum



| REVISION | DATE      | DESCRIPTION                             | PREPARED:                                                                   | NOTES                                             | <h1>TENSILITY</h1> <p>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</p> |  |              |
|----------|-----------|-----------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|
| A        | 8/28/2015 | Initial release                         | RR<br>Digitally signed by RR<br>Date: 2024.10.22 12:01:24 -07'00'           | RoHS and REACH compliant                          |                                                                                                                                                        |  |              |
| A1       | 1/13/2016 | Updated notes, corrected tolerances     | VERIFIED: AL<br>Digitally signed by AL<br>Date: 2024.10.22 14:03:10 -07'00' | Jacket meets ISO 10993 Biological Compatibility   | SIZE<br>A<br>PART NUMBER<br>30-00495                                                                                                                   |  |              |
| A2       | 1/17/2019 | Changed filler material to generic name | DIMENSIONS ARE IN MILLIMETERS                                               | Phthalate and halogen free                        |                                                                                                                                                        |  |              |
|          |           |                                         | 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, no intermittent | DESCRIPTION:<br>Wire, 3C TS, 28 AWG, 150V, 70C, 2.8 mm, spiral shield, TPU, WBL                                                                        |  |              |
|          |           |                                         |                                                                             |                                                   |                                                                                                                                                        |  |              |
|          |           |                                         |                                                                             |                                                   | SCALE: 20:1                                                                                                                                            |  | SHEET 1 OF 1 |