

**Ratings**

Voltage: 300 V  
 Temperature: -40 ~ 80 °C  
 Flammability: FT2

**Conductor**

Conductor count: 7  
 Gauge: 18 AWG 0.82 mm<sup>2</sup>  
 Material: bare copper strands  
 Strand size:  $\phi 0.127 \times 65$   
 Max resistance at 20 °C: 23.2  $\Omega$  /km

**Insulator**

Material: TPE 85A  
 Color: white, black, red, yellow, blue, green, orange  
 Diameter:  $\phi 1.8 \pm 0.10$  mm  
 Nominal thickness: 0.21 mm  
 Minimum resistance @ 20 °C: 100 M $\Omega$  /km

**Shield**

Type: braided  
 Material: bare copper strands  
 Stranding:  $\phi 0.10$  mm, 65% minimum coverage

**Drain**

Material: bare copper strands  
 Stranding:  $\phi 0.127 \times 65$

**Outer jacket**

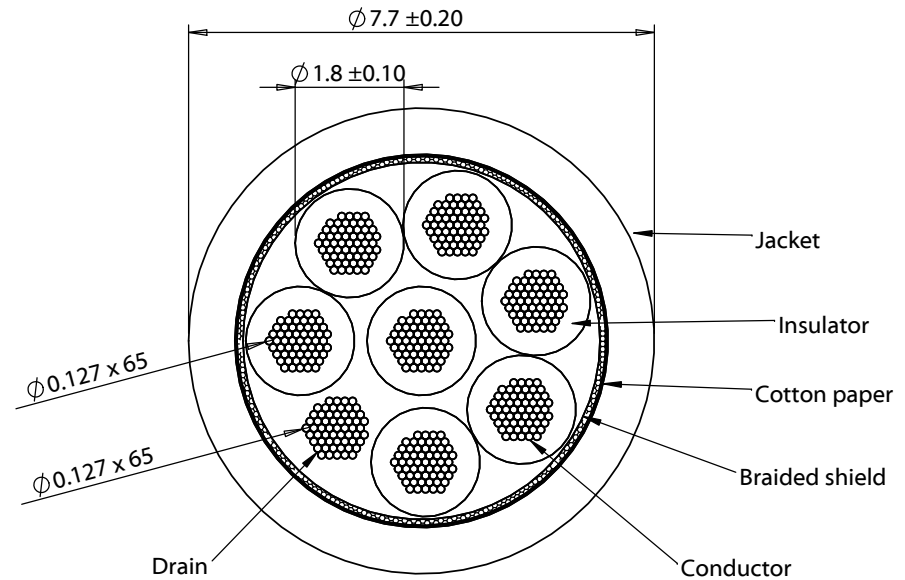
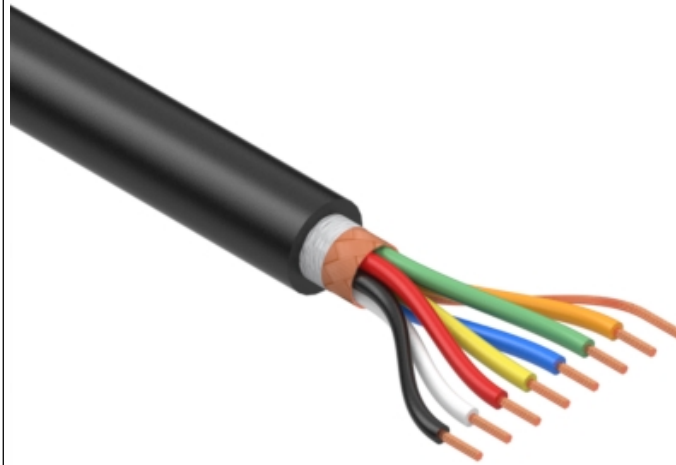
Material: TPU (Polyether Polyurethane) 80 A  
 Color: black  
 Diameter:  $\phi 7.7 \pm 0.20$  mm  
 Nominal thickness: 0.85 mm

**Wire marking:** E339579 UL AWM STYLE 20280 18 AWG 80°C 300V --- cUL AWM I/II A 80 °C 300V FT2 TENSILITY

**Tests**

Spark test: 3.0 kV  
 Insulation tensile strength: 0.562 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 jacket tensile strength 70 % original  
 Minimum insulation tensile strength 75 % original  
 Minimum jacket elongation 65 % original  
 Minimum insulation elongation 75 % 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  
 Dielectric test: 2000 Vac for 1 minute without breakdown

**Use:** Internal wiring or external interconnection of electronic equipment.



|           |           |                 |  |   |   |
|-----------|-----------|-----------------|--|---|---|
| Revision: | Date:     | Description:    | Prepared:  | Notes:<br>RoHS and REACH compliant<br>Phthalate and halogen free                          | <b>TENSILITY</b><br>tel 1.541.323.3228 800 877.670.7118<br>fax 1.541.323.4202 web tensility.com |
| A         | 6/12/2019 | Initial release | Verified:  |   |   |
|           |           |                 | 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: no open, no short circuit, no intermittent                                      | Size: Part number:<br>A 30-00930  |
|           |           |                 |  | Description:<br>Wire, 7C BC, 18 AWG, UL20280, 300V, 80C, 7.7 mm, braided shield, FT2, TPU | Scale: 8:1  |
|           |           |                 |  |   | Sheet 1 of 1  |

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