

**Ratings**

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

**Conductor**

Conductor count: 2  
 Gauge: 18 AWG 0.82 mm<sup>2</sup>  
 Material: bare copper strands  
 Strand size: Ø 0.13 mm x 65  
 Max resistance at 20 °C: 23.2 Ω /km

**Insulator**

Material: TPE 85A  
 Color: black, red  
 Diameter: Ø 1.8 ± 0.10 mm  
 Nominal thickness: 0.24 mm  
 Minimum resistance at 20 °C: 100 MΩ /km

**Shield**

Type: braided  
 Material: bare copper strands  
 Stranding: Ø0.10 mm, 65% minimum coverage

**Drain**

Material: bare copper strands  
 Stranding: Ø 0.127 x 65

**Outer jacket**

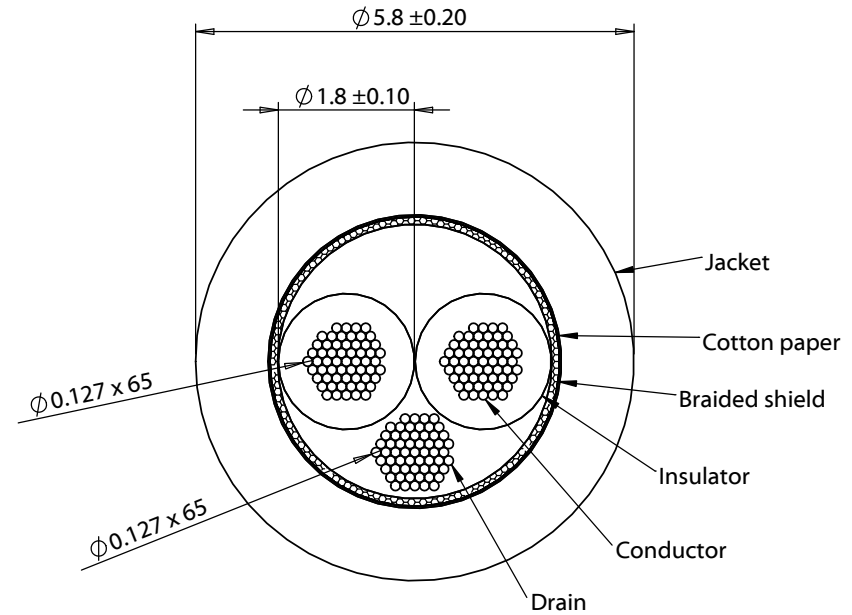
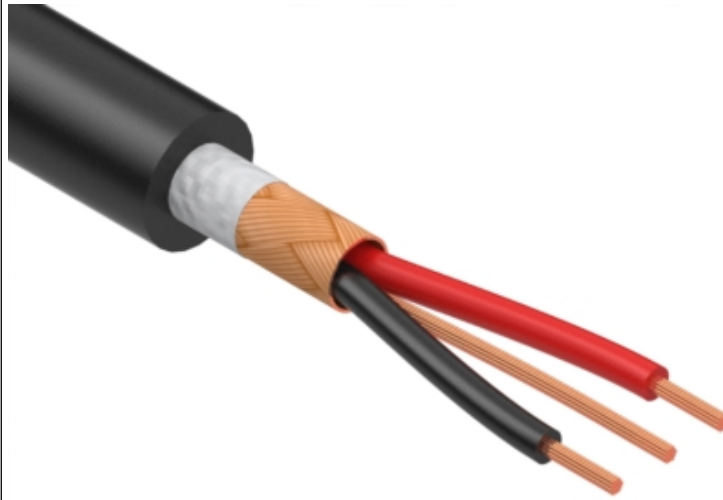
Material: TPU (Polyether Polyurethane) 80A  
 Color: black  
 Diameter: Ø 5.8 ± 0.20 mm  
 Nominal thickness: 0.80 mm

**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 ± 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 ± 1 °C / 1 hour, no observed degradation  
 Deformation: 121 ± 1 °C / 1 hour, ≤ 50 %  
 Cold bend: -10 ± 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:
A	6/12/2019	Initial release

Prepared: <b>AG</b> <small>Digitally signed by AG Date: 2019.06.12 12:38:58 -0700'</small>
Verified: <b>JW</b> <small>Digitally signed by JW Date: 2019.06.13 10:38:39 -0700'</small>
Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm

Notes: RoHS and REACH compliant  Phthalate and halogen free  Function: no open, no short circuit, no intermittent
Description: Wire, 2C BC, 18 AWG, UL20280, 300V, 80C, 5.8 mm, braided shield, FT2, TPU

<b>TENSILITY</b>	
<small>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</small>	
Size: A	Part number: <b>30-01223</b>
Scale: 10:1	
Sheet 1 of 1	