

**Ratings**

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

**Conductor**

Conductor count: 3  
 Gauge: 20 AWG 0.52 mm<sup>2</sup>  
 Material: bare copper strands  
 Strand size: Ø 0.127 mm x 41  
 Max resistance at 20 °C: 36.7 Ω /km

**Insulator**

Material: TPE 85A  
 Color: white, black, red  
 Diameter: Ø 1.5 ±0.10 mm  
 Nominal thickness: 0.24 mm  
 Minimum resistance @ 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: Ø0.127 x 41

**Outer jacket**

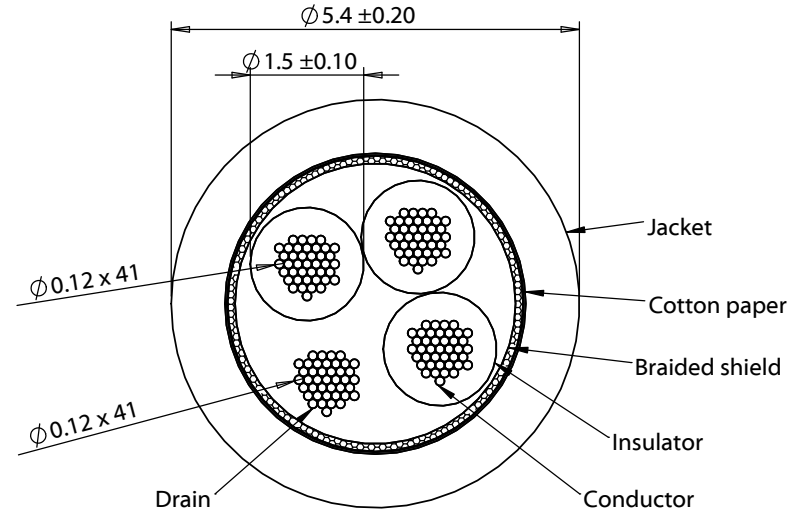
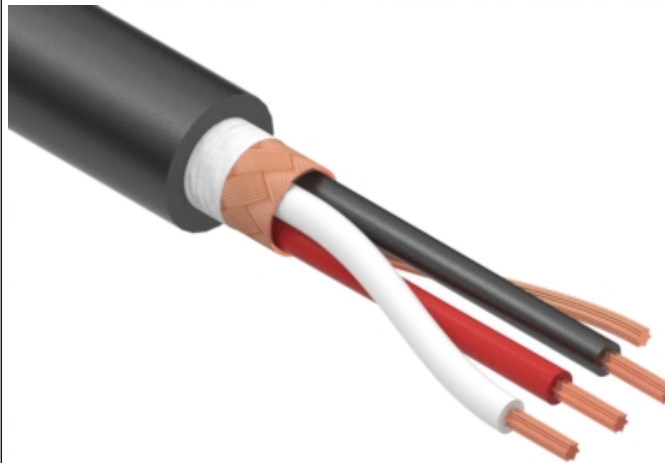
Material: TPU (Polyether Polyurethane) 80A  
 Color: black  
 Diameter: Ø 5.4 ±0.20 mm  
 Nominal thickness: 0.80 mm

**Wire marking:** E339579 UL AWM STYLE 20280 20 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 11:19:56 -0700'</small>
Verified: <b>JW</b> <small>Digitally signed by JW Date: 2019.06.13 08:44:08 -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, 3C BC, 20 AWG, UL20280, 300V, 80C, 5.4 mm, braided shield, FT2, TPU

# TENSILITY

tel 1.541.323.3228 800 877.670.7118  
 fax 1.541.323.4202 web tensility.com

Size: A	Part number: <b>30-00911</b>
Scale: 10:1	

Sheet 1 of 1