

**Ratings**

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

**Conductor**

Conductor count: 9  
 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, yellow, blue, green, orange, purple, gray  
 Diameter: Ø 1.5 ±0.10 mm  
 Nominal thickness: 0.21 mm  
 Minimum resistance @ 20 °C: 100 MΩ /km

**Filler**

Material: cotton rope

**Shield**

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

**Drain**

Material: bare copper strands  
 Stranding: Ø0.127 x 41

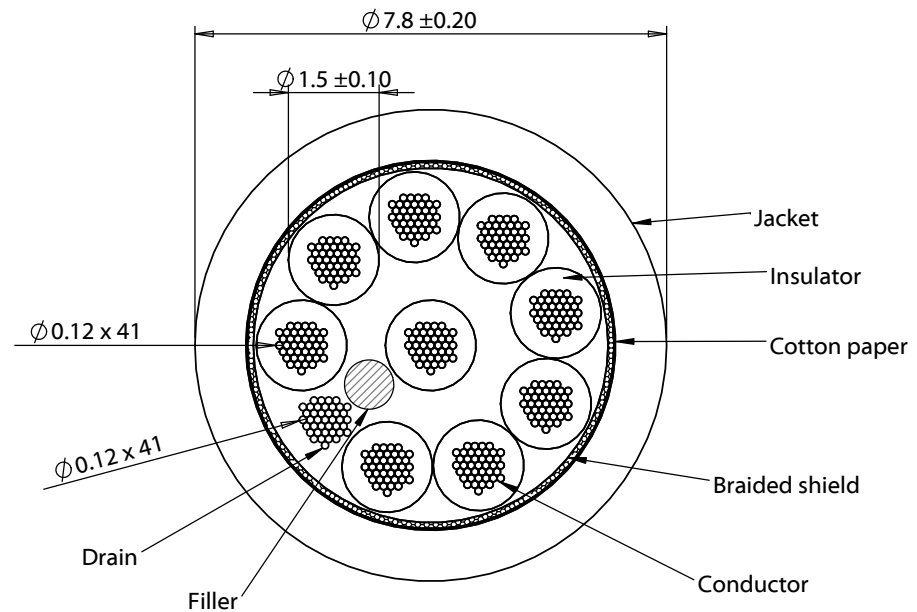
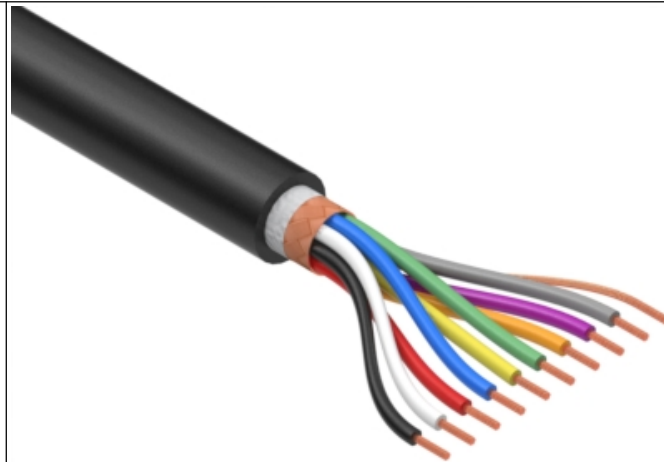
**Outer jacket**

Material: TPU (Polyether Polyurethane) 80A  
 Color: black  
 Diameter: Ø 7.8 ±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



Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118                  fax 1.541.323.4202 web tensility.com</p>
A	6/12/2019	Initial release	Verified:	RoHS and REACH compliant Phthalate and halogen free	
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Function: no open, no short circuit, no intermittent	Size: Part number: A 30-00941
				Description: Wire, 9C BC, 20 AWG, UL20280, 300V, 80C, 7.8 mm, braided shield, FT2, TPU	Scale: 8:1  Sheet 1 of 1

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