

Ratings

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

Conductor

Conductor count: 9
Gauge: 28 AWG 0.1 mm²
Material: bare copper strands
Strand size: Ø 0.08 mm x 19
Max resistance at 20 °C: 223 Ω /km

Insulator

Material: TPE 85A
Color: white, black, red, yellow, blue, green, orange, purple, gray
Diameter: Ø 0.85 ±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: Ø 0.08 x 19

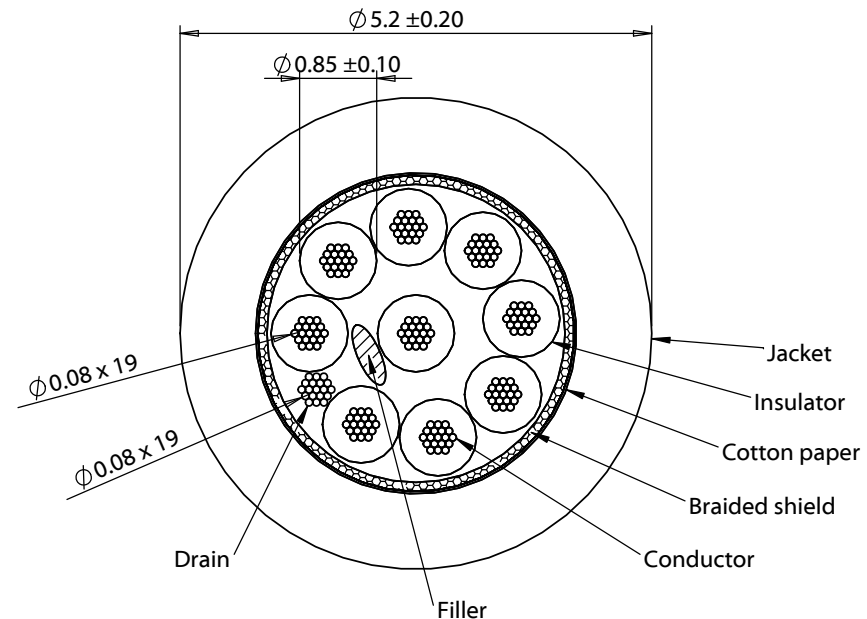
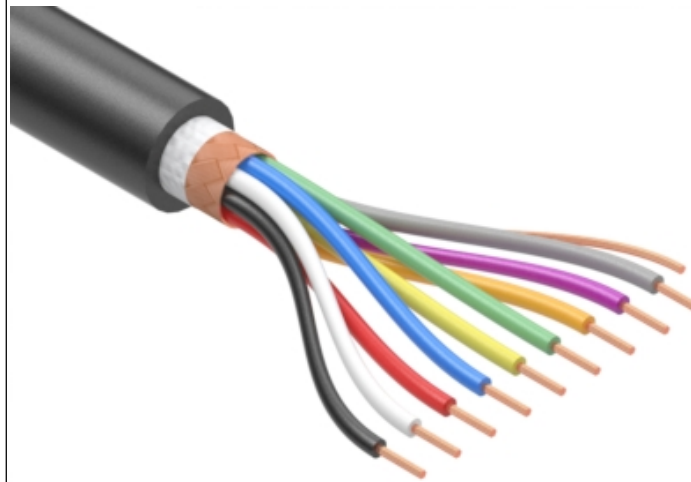
Outer jacket

Material: TPU (Polyether Polyurethane) 80A
Color: black
Diameter: Ø 5.2 ±0.20 mm
Nominal thickness: 0.80 mm

Wire marking: E339579 UL AWM STYLE 20280 28 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/mm²
Jacket tensile strength: 1.05 kgf/mm²
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:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	6/13/2019	Initial release	Verified:	RoHS and REACH compliant Phthalate and halogen free Function: no open, no short circuit, no intermittent			
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Wire, 9C BC, 28 AWG, UL20280, 300V, 80C, 5.2 mm, braided shield, FT2, TPU	Size: A	Part number: 30-00675	
					Scale: 12:1		Sheet 1 of 1