

Ratings

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

Conductor

Conductor count: 6
 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
 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: 16/4/0.10 mm, 65% minimum coverage

Drain

Material: bare copper strands
 Stranding: Ø 0.08 x 19

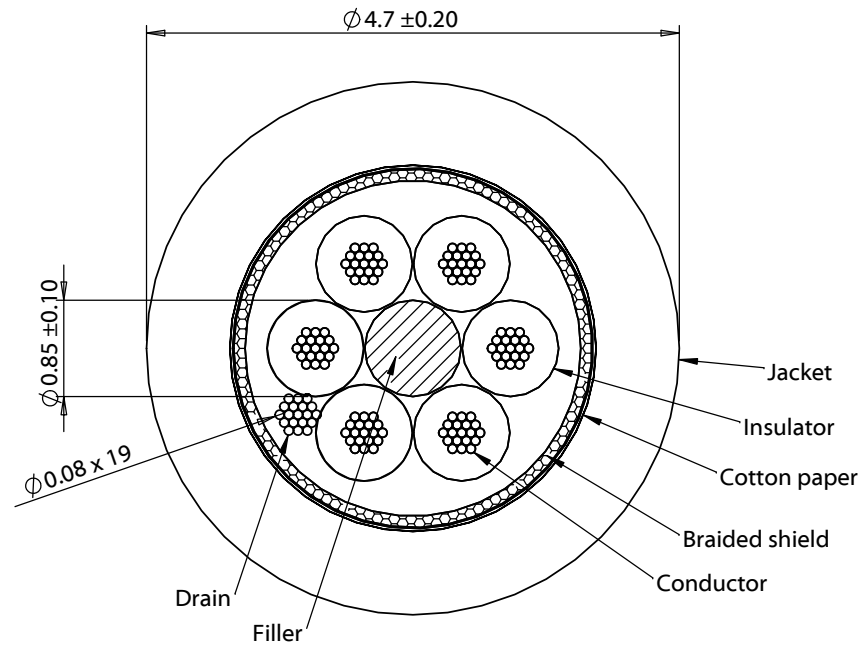
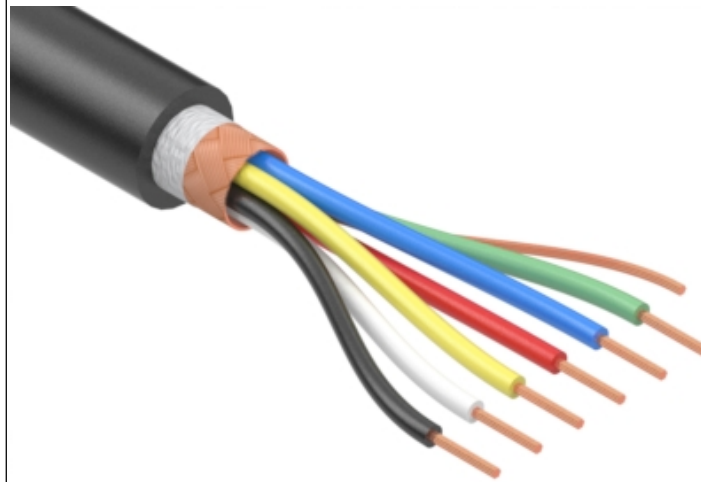
Outer jacket

Material: TPU (Polyether Polyurethane) 80A
 Color: black
 Diameter: Ø 4.7 ±0.20 mm
 Nominal thickness: 0.83 mm

Wire marking: E339579 UL AWM STYLE 20280 28 AWG 80°C
 300V --- cUL AWM I/II A 80 °C 300V FT2 TENSILITY

Tests

Voltage test: 300 V
 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: RoHS and REACH compliant	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	3/27/2018	Initial release	Verified:		
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description:	Size: Part number:
				Wire, 6C BC, 28 AWG, UL20280, 300V, 80C, 4.7 mm, braided shield, FT2, TPU	A 30-00672
				Scale: 15:1	Sheet 1 of 1