

Ratings

Voltage: 300 V
 Temperature
 Static: -40 to 105 °C
 Dynamic: -20 to 105 °C
 Flammability: VW-1
 Water resistant: 75 °C
 Oil resistant: 60 °C (jacket)
 ≥50% elongation and tensile strength after aging
 UV resistance: jacket, 720 hours xenon or carbon arc exposure
 ≥80% tensile strength and elongation after aging

Conductor

Conductor count: 6
 Gauge: 18 AWG 0.82 mm²
 Material: tinned copper strands
 Strand size: Ø 0.16 mm x 41
 Resistance at 20 °C: 23.2 Ω /km Max

Insulator

Material: PVC
 Color: red, black, white, yellow, blue, green
 Diameter: Ø 2.1 ±0.10 mm
 Nominal thickness: 0.38 mm
 Resistance at 20 °C: 10 MΩ /km Min

Filler

Material: cotton rope

Drain

Stranding: Ø 0.16 mm x 41
 Material: tinned copper strands

Shield

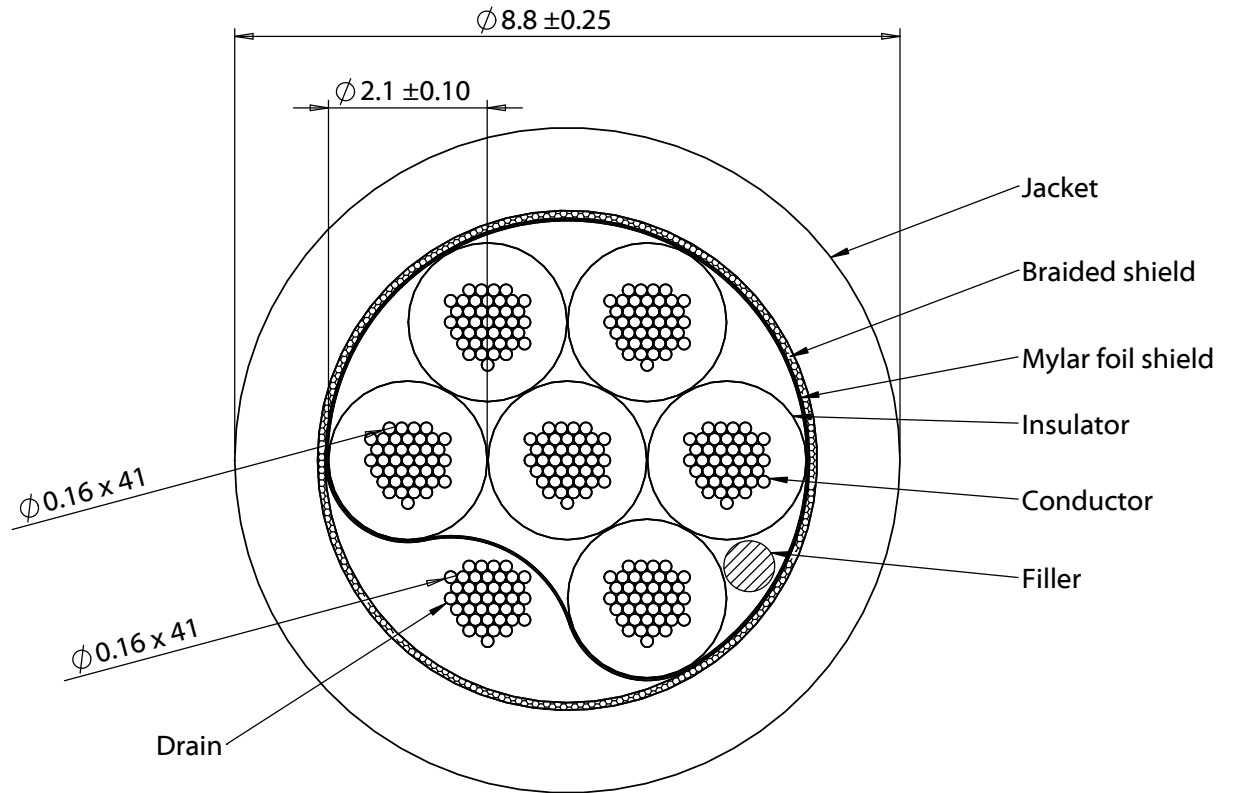
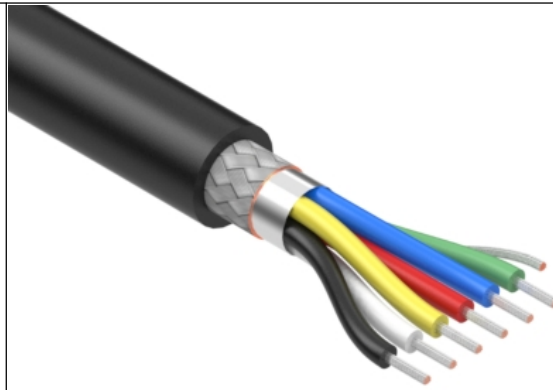
Type: aluminum mylar + tinned copper braid
 Coverage: 65% min braid, 100% foil
 Braid stranding: Ø0.10 mm

Outer jacket

Material: PVC, 80A
 Color: black
 Diameter: Ø 8.8 ±0.25 mm
 Nominal thickness: 1.0 mm

Wire marking: E339579 UL AWM STYLE 20387 18 AWG 105°C
 300V VW-1 60°C OIL RESISTANT UV RESISTANT TENSILITY

Use: External wiring



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	8/25/2020	Initial release	JC <small>Digitally signed by JC Date: 2020.08.27 14:36:58 -07'00'</small>	RoHS compliant	
			Verified:	Function test: no open, no short circuit, no intermittent	Size:
			AW <small>Digitally signed by AW Date: 2020.08.28 10:30:30 -07'00'</small>	Description:	Part number:
			Dimensions are in millimeters.	Wire, 6C TS, 18 AWG, UL20387, 300V, 105C, 60C oil, UV, 8.8 mm, shielded, VW-1, PVC, 80A, black	A
			Tolerances:		30-01592
			X: ± 0.5 mm		Scale: 10:1
			X.X: ± 0.3 mm		Sheet 1 of 1
			X.XX: ± 0.05 mm		

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