

**Ratings**

Voltage: 300 V  
 Temperature  
 Static: -40 ~ 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: 9  
 Gauge: 22 AWG 0.34 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size: Ø 0.16 mm x 17  
 Resistance at 20 °C: 59.4 Ω /km Max

**Insulator**

Material: PVC  
 Color: red, black, white, yellow, blue, green, orange, purple, gray  
 Diameter: Ø 1.6 ±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 17  
 Material: tinned copper strands

**Shield**

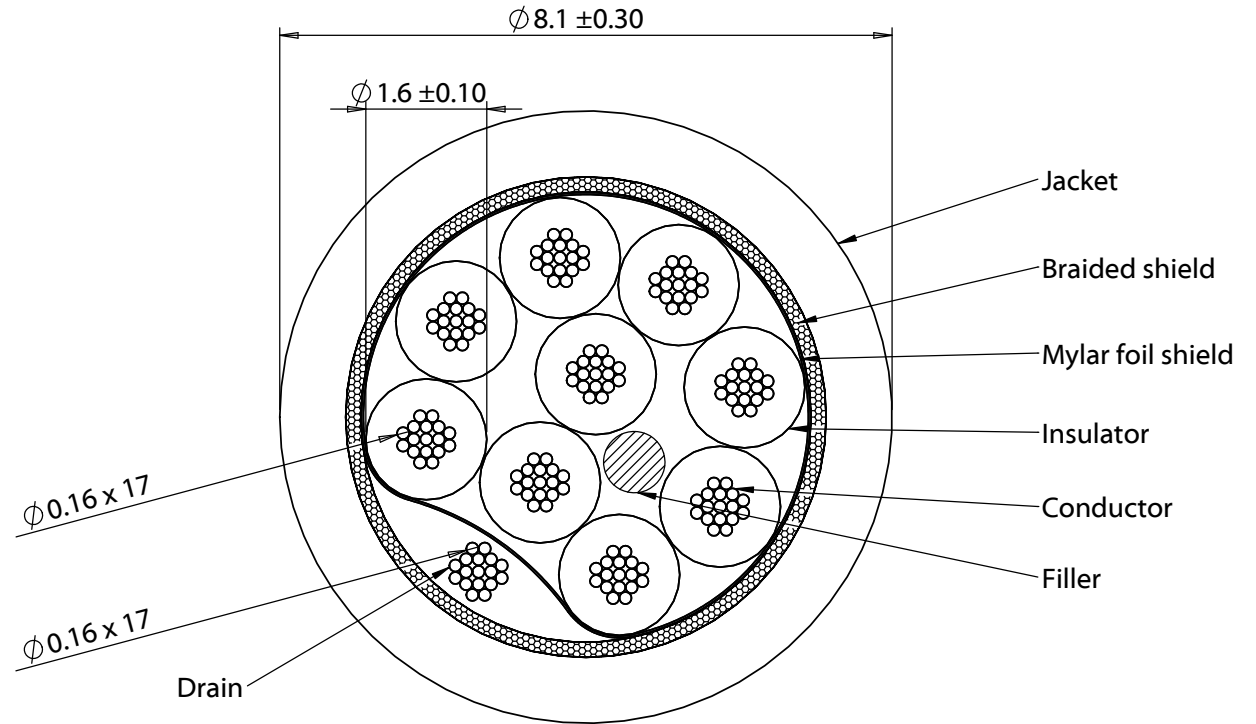
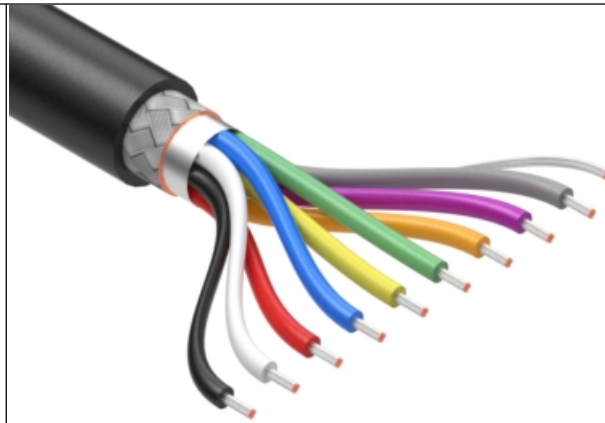
Type: aluminum mylar + tinned copper braid  
 Coverage: 65% min braid, 100% foil  
 Braid stranding: Ø0.10 mm

**Outer jacket**

Material: PVC, 80A  
 Color: black  
 Diameter: Ø 8.1 ±0.30 mm  
 Nominal thickness: 0.80 mm

**Wire marking:** E339579 UL AWM STYLE 20387 22 AWG 105°C  
 300V VW-1 60°C OIL RESISTANT UV RESISTANT TENSILITY

**Use:** External wiring



Revision:	Date:	Description:
A	8/25/2020	Initial release

Prepared: JC <small>Digitally signed by JC Date: 2020.08.28 14:19:16 +07'00'</small>
Verified: AW <small>Digitally signed by AW Date: 2020.08.28 14:57:28 -07'00'</small>
Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm

Notes: RoHS compliant Function test: no open, no short circuit, no intermittent
Description: Wire, 9C TS, 22 AWG, UL20387, 300V, 105C, 60C oil, UV, 8.1 mm, shielded, VW-1, PVC, 80A, black

# TENSILITY

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Size: A	Part number: 30-01618
Scale: 10:1	Sheet 1 of 1