

**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: 8  
 Gauge: 22 AWG 0.32 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size:  $\phi 0.16$  (x 17) mm  
 Resistance at 20 °C: 59.4  $\Omega$ /km

**Insulator**  
 Material: PVC  
 Color: white, brown, green, yellow, gray, pink, blue, red  
 Diameter:  $\phi 1.6 \pm 0.10$  mm  
 Nominal thickness: 0.38 mm  
 Resistance at 20 °C: 2.5 M $\Omega$ /kft

**Filler**  
 Material: Cotton rope

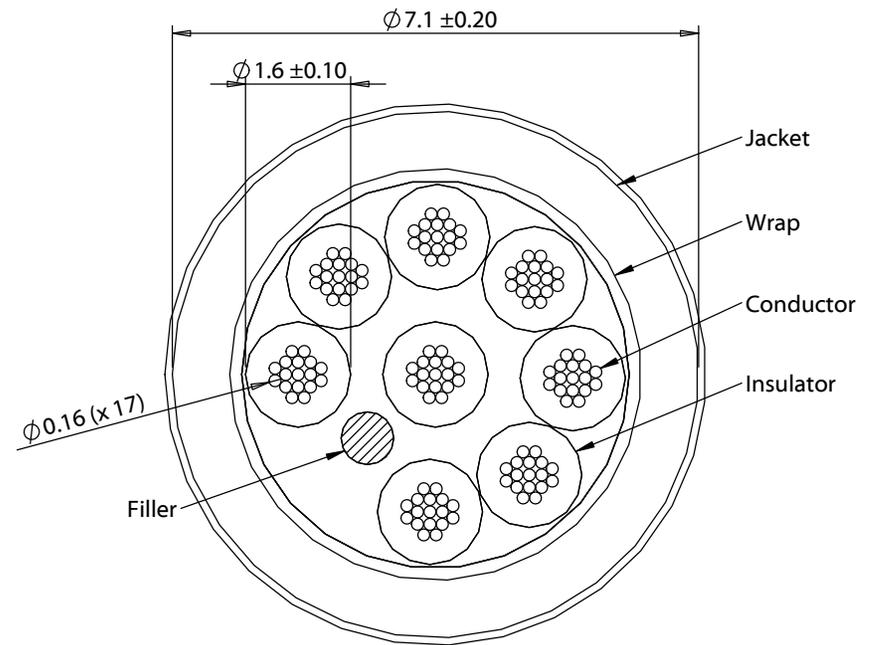
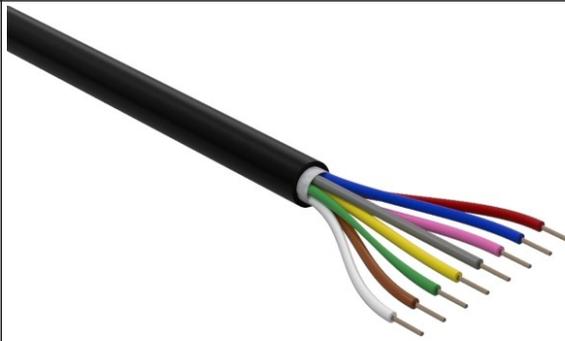
**Wrap**  
 Material: Cotton paper

**Outer jacket**  
 Material: PVC, 80A  
 Color: black  
 Diameter:  $\phi 7.1 \pm 0.20$  mm  
 Nominal thickness: 0.85 mm

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

**Bend radius**  
 Minimum: 6 times diameter (42.6 mm)

**Use:**  
 External wiring



Revision:	Date:	Description:	Prepared:	Notes:	<b>TENSILITY</b> tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	10/16/2025	initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent	
			Dimensions are in millimeters. Tolerances: X: $\pm 0.3$ mm X.X: $\pm 0.1$ mm X.XX: $\pm 0.05$ mm	Description: Wire, 8C TS, 22 AWG, UL20387, 300V, 105C, 60C oil, UV, 7.1 mm, VW-1, PVC, 80A, black	Size: A Part number: 30-03674
					Scale: 10:1  Sheet 1 of 1

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