

**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: 5

Gauge: 30 AWG 0.05 mm<sup>2</sup>

Material: tinned copper strands

Strand size: Ø 0.1 mm x 7

Resistance at 20 °C: 381 Ω /km Max

**Insulator**

Material: PVC

Color: red, black, white, yellow, blue

Diameter: Ø 1.1 ±0.10 mm

Nominal thickness: 0.38 mm

Resistance at 20 °C: 10 MΩ /km Min

**Filler**

Material: cotton rope

**Drain**

Stranding: Ø 0.1 mm x 7

Material: tinned copper strands

**Shield**

Type: aluminum mylar + tinned copper braid

Coverage: 65% min braid, 100% foil

Braid stranding: Ø0.10 mm

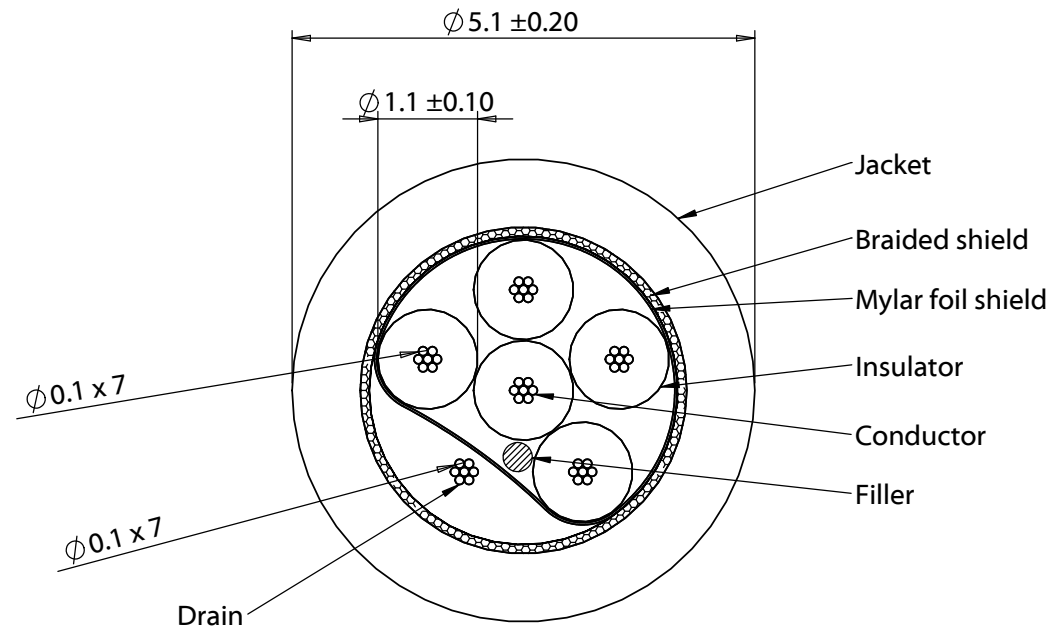
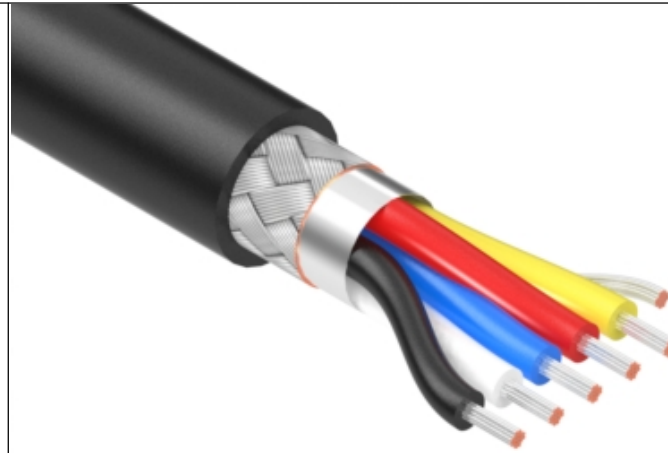
**Outer jacket**

Material: PVC, 80A

Color: black

Diameter: Ø 5.1 ±0.20 mm

Nominal thickness: 0.80 mm

**Wire marking:** E339579 UL AWM STYLE 20387 30 AWG 105°C  
300V VW-1 60°C OIL RESISTANT UV RESISTANT TENSILITY**Use:** External wiring

Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1>
A	8/25/2020	Initial release	JC <small>Digitally signed by JC Date: 2020.08.27 12:26:40 -07'00'</small>		
			Verified:	Function test: no open, no short circuit, no intermittent	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
			Dimensions are in millimeters. Tolerances:	Description:	Size: Part number:
			X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Wire, 5C TS, 30 AWG, UL20387, 300V, 105C, 60C oil, UV, 5.1 mm, shielded, VW-1, PVC, 80A, black	A 30-01590
					Scale: 12:1  Sheet 1 of 1

5

4

3

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