

**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: 7  
 Gauge: 20 AWG 0.52 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size: Ø 0.16 mm x 26  
 Resistance at 20 °C: 36.7 Ω /km Max

**Insulator**

Material: PVC  
 Color: red, black, white, yellow, blue, green, orange  
 Diameter: Ø 1.8 ±0.10 mm  
 Nominal thickness: 0.38 mm  
 Resistance at 20 °C: 10 MΩ /km Min

**Drain**

Stranding: Ø 0.16 mm x 26  
 Material: tinned copper strands

**Shield**

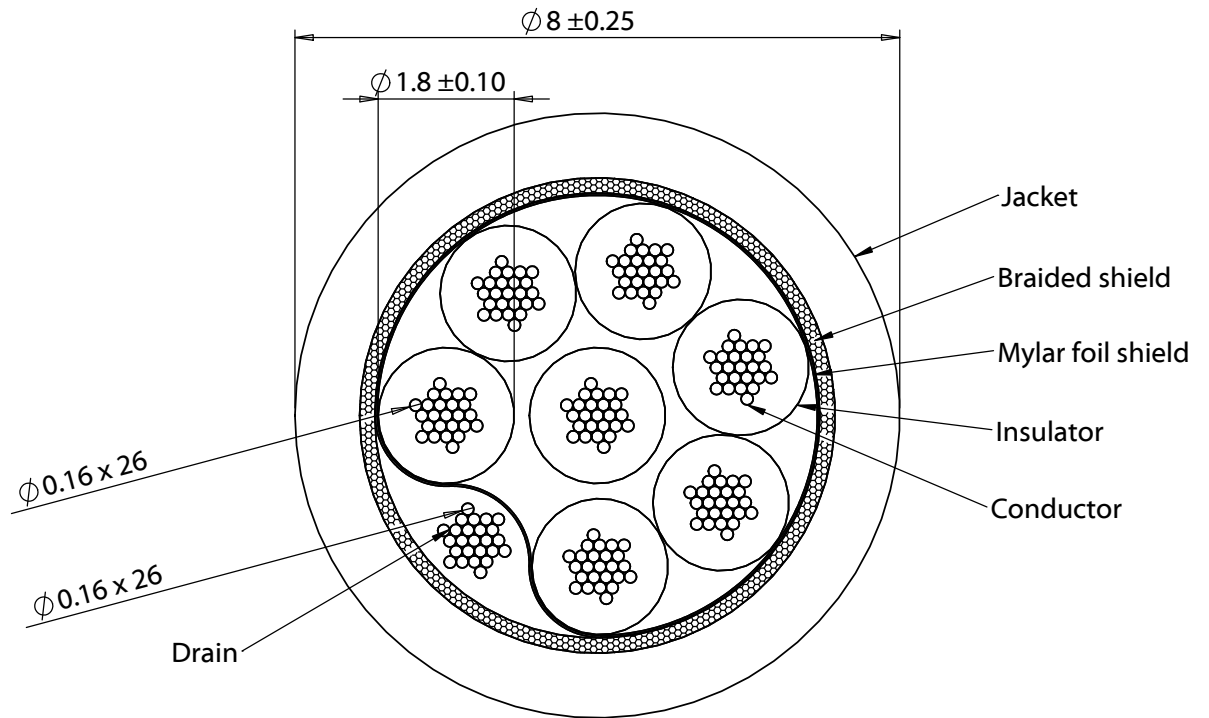
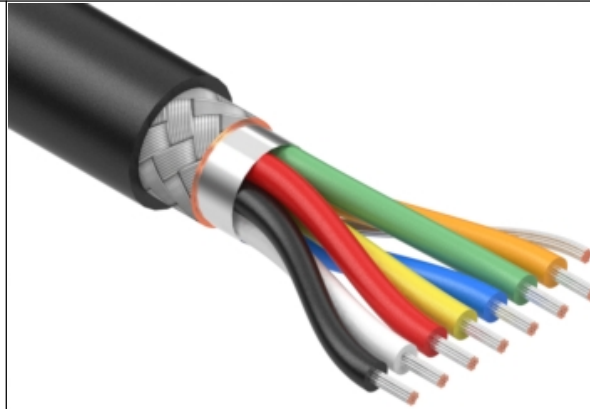
Type: aluminum mylar + tinned copper braid  
 Coverage: 65% min braid, 100% foil  
 Braid stranding: Ø0.10 mm

**Outer jacket**

Material: PVC, 80A  
 Color: black  
 Diameter: Ø 8 ±0.25 mm  
 Nominal thickness: 1.0 mm

**Wire marking:** E339579 UL AWM STYLE 20387 20 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<br/>                 fax 1.541.323.4202 web tensility.com</p> |
| A         | 8/25/2020 | Initial release | JC<br><small>Digitally signed by JC<br/>                 Date: 2020.08.27<br/>                 16:30:10 -0700'</small> |  |   |
|           |           |                 | Verified:  | Function test: no open, no short circuit, no intermittent                                    | Size:   |
|           |           |                 | AW<br><small>Digitally signed by AW<br/>                 Date: 2020.08.28<br/>                 13:27:01 -0700'</small> | Description:   | Part number:  |
|           |           |                 | Dimensions are in millimeters.   | Wire, 7C TS, 20 AWG, UL20387, 300V, 105C, 60C oil, UV, 8 mm, shielded, VW-1, PVC, 80A, black | A   |
|           |           |                 | Tolerances:  |  | 30-01601  |
|           |           |                 | 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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