

**Ratings**

Voltage: 600 V

Temperature

Static: -40~105 °C

Dynamic: -20 ~ 105 °C

Flammability: VW-1

Water resistant: 75 °C

Oil resistant: 100 °C for 96 hours (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: 22 AWG 0.33 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, green, blue

Diameter: Ø1.6 ± 0.1 mm

Nominal thickness: 0.39 mm

Resistance at 20 °C: 0.75 MΩ /km min

**Wrap**

Material: cotton paper

**Filler**

Material: cotton rope

**Outer jacket**

Material: TPU (Polyether Polyurethane) 85A

Color: black

Diameter: Ø 6.5 ± 0.2 mm

Nominal thickness: 0.76 mm

**Wire marking:** E339579 UL AWM STYLE 21767 22AWG 105°C

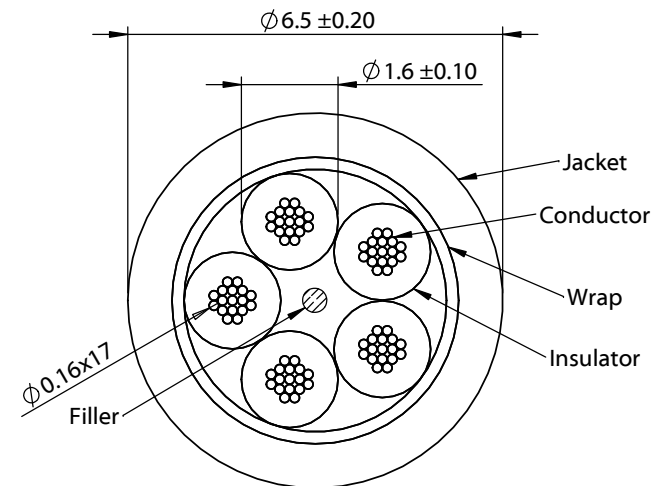
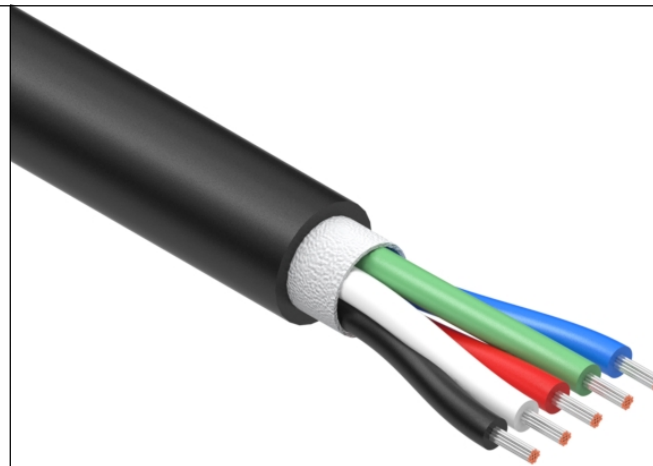
600V VW-1 --- cUL AWM II A 105°C 600V FT1 60°C OIL RESISTANT

UV RESISTANT TENSILITY

**Flex operation**

Static: 12 times the outer diameter (78 mm)

Dynamic: 15 times the outer diameter (97.5 mm)

**Use:** External wiring

|           |            |                 |                                                                                                  |                                                                                          |                                                                                                 |                                 |              |
|-----------|------------|-----------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|--------------|
| Revision: | Date:      | Description:    | Prepared:                                                                                        | Notes:                                                                                   | <b>TENSILITY</b><br>tel 1.541.323.3228 800 877.670.7118<br>fax 1.541.323.4202 web tensility.com |                                 |              |
| A         | 04/17/2025 | Initial release | Verified:                                                                                        | RoHS compliant<br>Function: no open, no short circuit, no intermittent                   |                                                                                                 |                                 |              |
|           |            |                 | Dimensions are in millimeters.<br>Tolerances:<br>X: ± 0.5 mm<br>X.X: ± 0.3 mm<br>X.XX: ± 0.05 mm | Description:<br>Wire, 5C TS, 22 AWG, UL21767, 600V, 105C, 60C oil, UV, 6.5 mm, VW-1, TPU | Size:<br>A                                                                                      | Part number:<br><b>30-03536</b> |              |
|           |            |                 |                                                                                                  |                                                                                          | Scale: 8:1                                                                                      |                                 | Sheet 1 of 1 |

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