

**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: 3

Gauge: 18 AWG 0.82 mm<sup>2</sup>

Material: tinned copper strands

Strand size: Ø 0.16 mm x 41

Resistance at 20 °C: 23.2 Ω /km Max

**Insulator**

Material: PVC

Color: red, black, white

Diameter: Ø 2.1 ±0.10 mm

Nominal thickness: 0.38 mm

Resistance at 20 °C: 10 MΩ /km Min

**Wrap**

Material: cotton paper

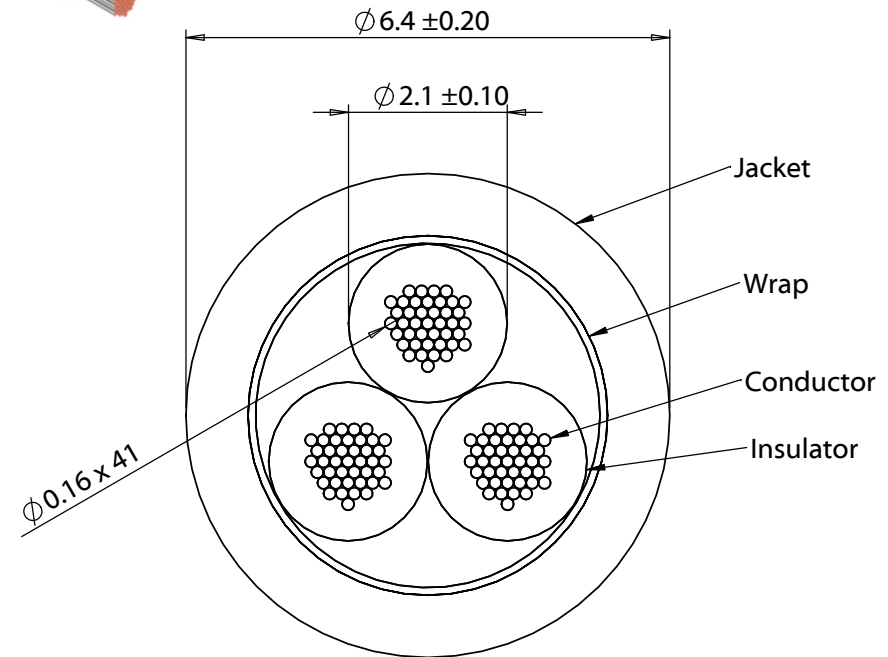
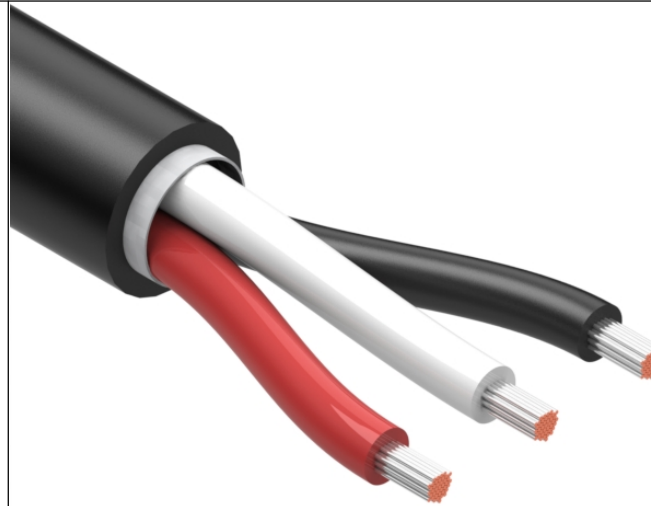
**Outer jacket**

Material: PVC, 80A

Color: Black

Diameter: Ø 6.4 ±0.20 mm

Nominal thickness: 0.8 mm

**Wire marking:** E339579 UL AWM STYLE 20387 18 AWG 105°C  
300V VW-1 60°C OIL RESISTANT UV RESISTANT TENSILITY**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         | 10/01/2021 | Initial release | Verified:                                                                                        | RoHS compliant<br>Function test: 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, 3C TS, 18 AWG, UL20387, 300V, 105C, 60C oil, UV, 6.4 mm, VW-1, PVC, 80A, black | Size:<br>A                                                                                      | Part number:<br><b>30-01648</b> |              |
|           |            |                 |                                                                                                  |                                                                                                      | Scale: 10:1                                                                                     |                                 | Sheet 1 of 1 |

5

4

3

2

1