

**Ratings**  
Voltage: 300 Vac  
Temperature: 80 °C

**Conductor**  
Gauge: 22 AWG, 0.34 mm²  
Material: tinned copper strands  
Strand size: Ø 0.16 mm  
Strand count: 17  
Max resistance at 20 °C: 59.4 Ω/km

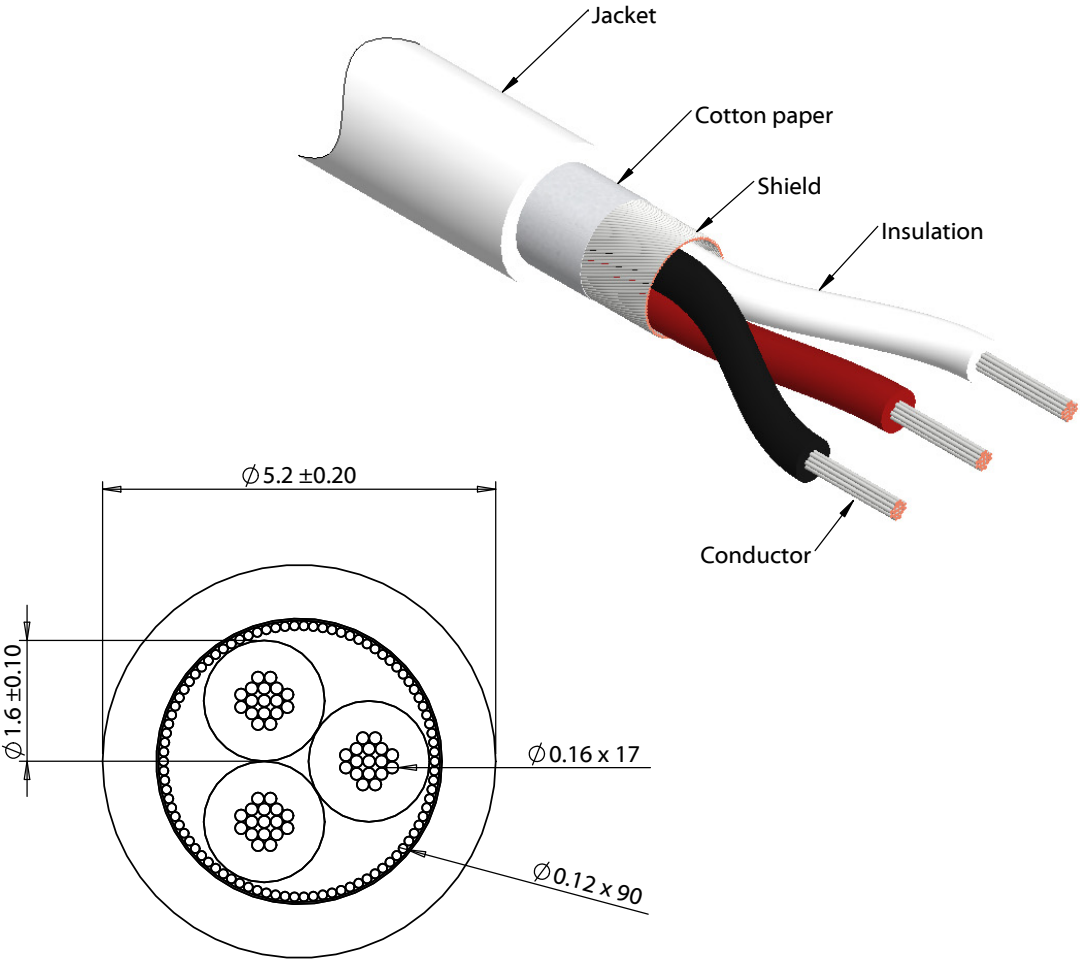
**Insulator**  
Material: PVC  
Color: white, black, red  
Outer diameter: 1.6 ±0.10 mm  
Min resistance at 20 °C: 10 MΩ/km

**Shield**  
Type: spiral  
Material: tinned copper strands  
Strand size: Ø 0.12 mm  
Strand count: 90 ±2

**Outer jacket**  
Material: TPU, 80 °C  
Type: extruded, non-integral  
Color: white  
Diameter: 5.2 ±0.20 mm

**Wire marking:** E339579 AWM STYLE 20549 80°C 300V VW-1 --- C AWM I/II A 80°C 300V FT1 TENSILITY

**Tests**  
Voltage test: 300 V  
Spark test: 3.0 kV  
Tensile strength: 1.05 kgf/mm²  
After aging at 113 ±2 °C for 7 days:  
Minimum tensile strength 70 % original  
Minimum elongation 65 % original  
Heat shock: 121 ±1 °C /1 hour, no observed degradation  
Deformation: 121 ±1 °C /1 hour, ≤ 50 %  
Cold bend: -10 ±1 °C /1 hour, no observed cracking  
Flammability: FT1, VW-1  
Dielectric test: 1500 V ac for 1 minute without breakdown



| REVISION | DATE      | DESCRIPTION     |
|----------|-----------|-----------------|
| A        | 9/22/2015 | Initial release |
|          |           |                 |
|          |           |                 |
|          |           |                 |
|          |           |                 |

|                                                                |                                                                                               |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| PREPARED:                                                      | NOTES<br>RoHS and REACH compliant                                                             |
| VERIFIED:                                                      | Function test: no open, no short circuit, no intermittent<br>Drawing in third angle projected |
| DIMENSIONS ARE IN MILLIMETERS                                  | DESCRIPTION:<br>Wire, 3C TS, 22 AWG, UL20549, 300V, 80C, 5.2 mm, shielded, VW-1, TPU, white   |
| TOLERANCES:<br>X: ± 0.5 mm<br>X.X: ± 0.3 mm<br>X.XX: ± 0.05 mm |                                                                                               |

|                                                                                                                           |                         |              |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------|
| TENSILITY                                                                                                                 |                         |              |
| 20802 Sockeye Place #130<br>Bend, OR 97701 USA<br>tel 541.323.3228 fax 541.323.4202<br>800 877.670.7118 www.tensility.com |                         |              |
| SIZE<br>A                                                                                                                 | PART NUMBER<br>30-00604 |              |
| SCALE: 10:1                                                                                                               |                         | SHEET 1 OF 1 |