

Ratings
Voltage: 300 Vac
Temperature: 80 °C

Conductor
Gauge: 18 AWG, 0.82 mm²
Material: tinned copper strands
Strand size: Ø 0.16 mm
Strand count: 41
Max resistance at 20 °C: 22 Ω/km

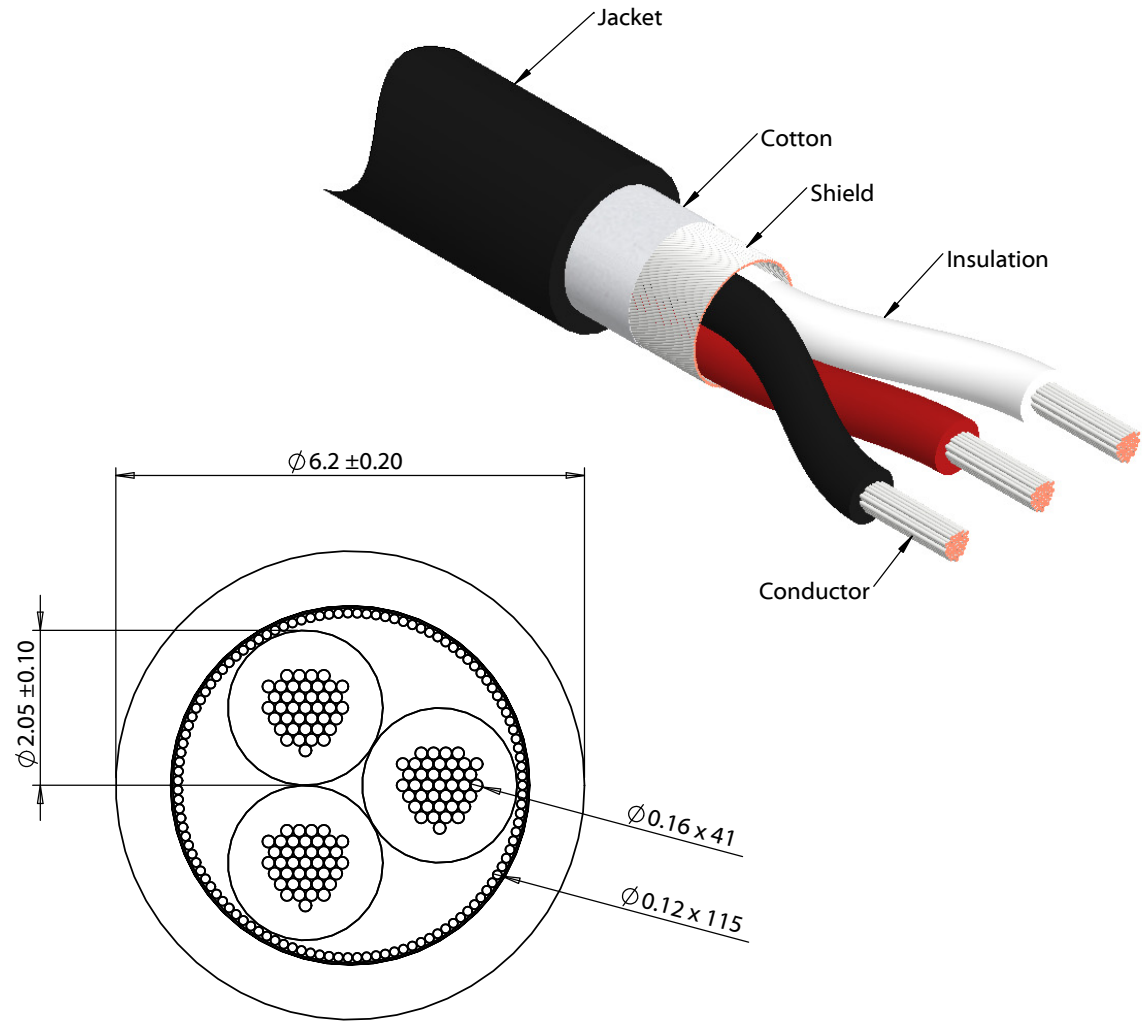
Insulator
Material: PVC
Color: white, black, red
Outer diameter: 2.05 ±0.10 mm
Max resistance at 20 °C: 10 MΩ/km

Shield
Type: spiral
Material: tinned copper strands
Strand size: Ø 0.12 mm
Strand count: 115 ±2

Outer jacket
Material: TPU, 80 °C
Type: extruded, non-integral
Color: black
Diameter: 6.2 ±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	9/21/2015	Initial release

PREPARED:	NOTES RoHS and REACH compliant Function test: no open, no short circuit, no intermittent Drawing in third angle projected
VERIFIED:	
DIMENSIONS ARE IN MILLIMETERS	
TOLERANCES: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	DESCRIPTION: Wire, 3C TS, 18 AWG, UL20549, 300V, 80C, 6.2 mm, shielded, VW-1, TPU

TENSILITY

20802 Sockeye Place #130
Bend, OR 97701 USA
tel 541.323.3228 fax 541.323.4202
800 877.670.7118 www.tensility.com

SIZE A	PART NUMBER 30-00597
SCALE: 10:1	SHEET 1 OF 1