

Ratings

Voltage: 300 Vac
Temperature: 80 °C

Conductor

Gauge: 20 AWG, 0.52 mm²
Material: tinned copper strands
Strand size: Ø 0.178 mm
Strand count: 21
Max resistance at 20 °C: 36.7 Ω/km

Insulator

Material: PVC
Color: white, black
Outer diameter: 1.8 ±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: 80 ±2

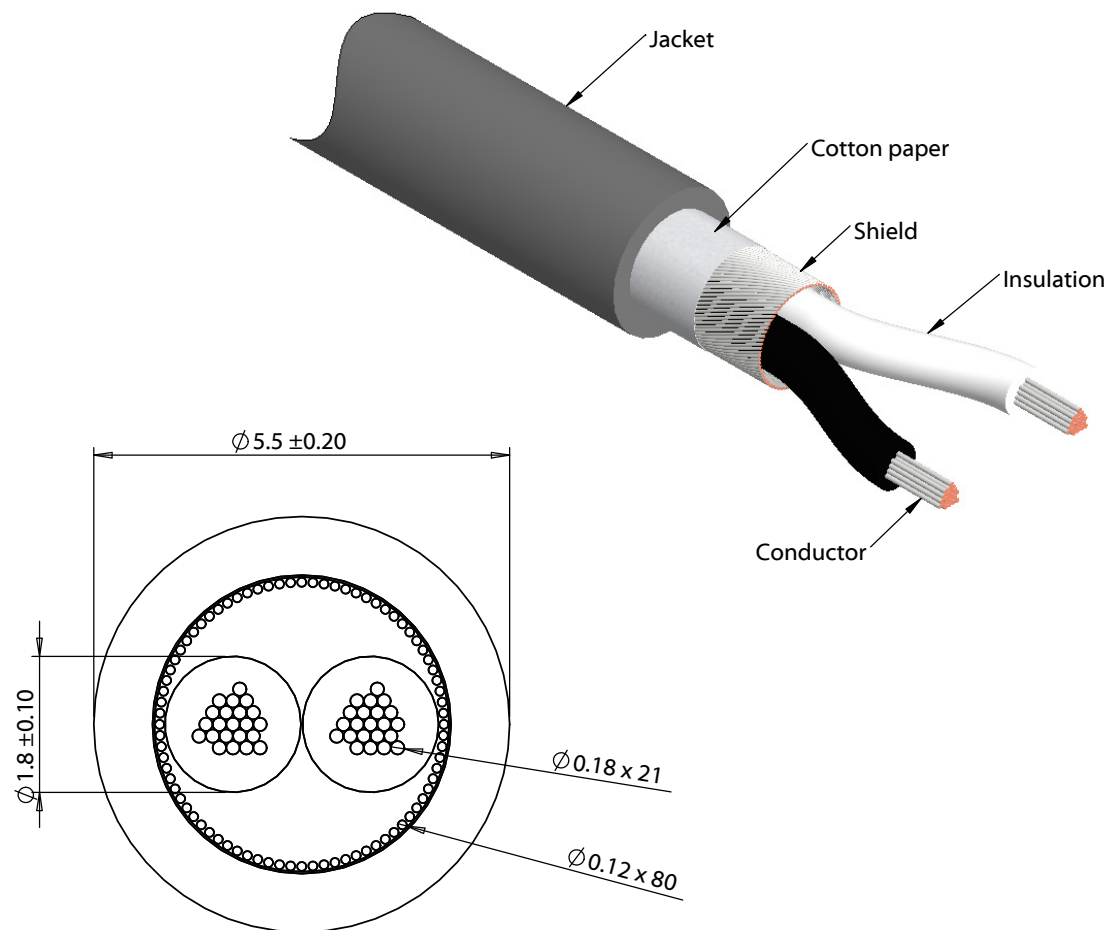
Outer jacket

Material: TPU, 80 °C
Type: extruded, non-integral
Color: gray
Diameter: 5.5 ±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	PREPARED:	NOTES	TENSILITY 20802 Sockeye Place #130 Bend, OR 97701 USA tel 541.323.3228 fax 541.323.4202 800 877.670.7118 www.tensility.com		
A	9/21/2015	Initial release	VERIFIED:	RoHS and REACH compliant Function test: no open, no short circuit, no intermittent Drawing in third angle projected			
			DIMENSIONS ARE IN MILLIMETERS	DESCRIPTION: Wire, 2C TS, 20 AWG, UL20549, 300V, 80C, 5.5 mm, shielded, VW-1, TPU, gray	SIZE A	PART NUMBER 30-00584	
			TOLERANCES: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm		SCALE: 10:1		SHEET 1 OF 1