

Ratings

Voltage: 300 V

Temperature:

Dynamic Temperature: - 25 ~ 105 °C

Static Temperature: - 40 ~105 °C

Flammability: VW-1

Conductor

Conductor count: 1

Gauge: 20 AWG 0.51 mm²

Material: tinned copper strands

Strand size: \varnothing 0.178 (x 21) mmResistance at 20 °C: 36.7 Ω /km max**Insulator**

Material: PVC

Color: Purple

Diameter: \varnothing 1.8 \pm 0.10 mm

Nominal thickness: 0.38 mm

Resistance at 20 °C: 2.5 M Ω /kft**Wire marking:** E339579 UL AWM STYLE 1569 105°C 300V or 1007
20 AWG 80°C 300V VW-1 --- cUL AWM I A 105°C 300V FT1 TENSILITY**Tests**

Insulation tensile strength: 10.3 MPa

After aging at 136 \pm 1 °C for 7 days:

Minimum tensile strength 70 % original

Minimum elongation 65 % original

Heat shock: 136 \pm 1 °C / 1 hour, no observed degradationDeformation: Load 2.45N, 121 \pm 1 °C / 1 hour

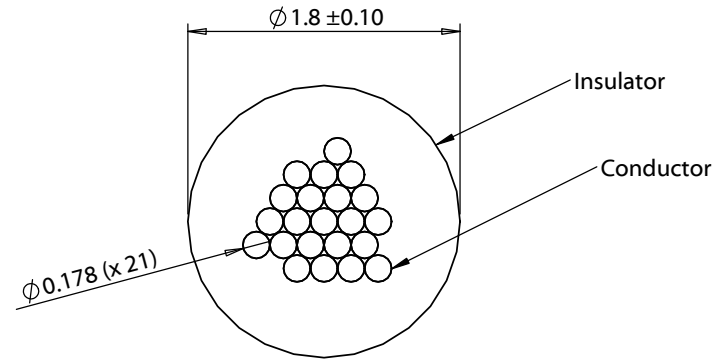
Maximum decrease in thickness 50%



Cold bend: -25 \pm 2 °C / 4 hour, no observed cracking

Spark test: 3000 V

Minimum Bend Radius

Static: 4 times diameter (7.2 mm)



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	11/25/25	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent	
			Dimensions are in millimeters. Tolerances: X: \pm 0.5 mm X.X: \pm 0.3 mm X.XX: \pm 0.05 mm	Description:	Size: Part number:
				Wire, hook-up, TS, 20 AWG, UL1007, UL1569, 300V, 105C, 1.8 mm, VW-1, PVC, purple	A 30-03727
					Scale: 20:1   Sheet 1 of 1

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