

Ratings

Voltage: 300 V
 Temperature:
 Dynamic Temperature: - 25 ~ 105 °C
 Static Temperature: - 40 ~105 °C
 Flammability: VW-1

Conductor

Conductor count: 1
 Gauge: 18 AWG 0.82 mm²
 Material: tinned copper strands
 Strand size: ϕ 0.178 (x 34) mm
 Resistance at 20 °C: 23.2 Ω /km max

Insulator

Material: PVC
 Color: Yellow
 Diameter: ϕ 2.1 \pm 0.10 mm
 Nominal thickness: 0.38 mm
 Resistance at 20 °C: 2.5 M Ω /kft

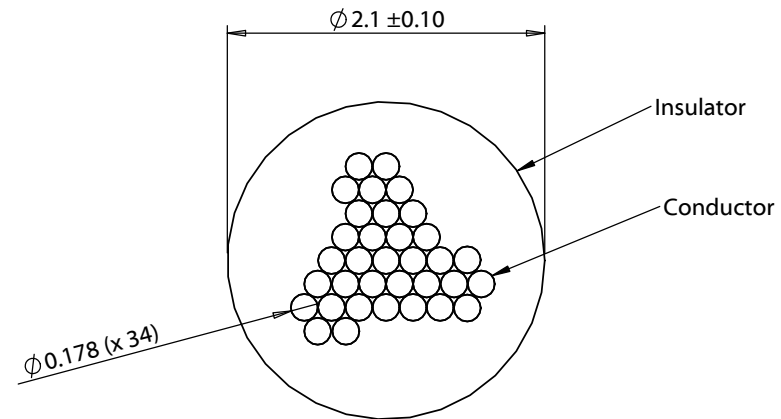
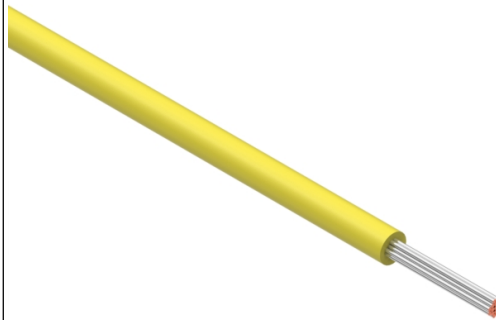
Wire marking: E339579 UL AWM STYLE 1569 105°C 300V or 1007
 18 AWG 80°C 300V VW-1 --- cUL AWM I A 105°C 300V FT1 TENSILITY



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 degradation
 Deformation: 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 (8.4 mm)



Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p>
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, 18 AWG, UL1007, UL1569, 300V, 105C, 2.1 mm, VW-1, PVC, yellow	A 30-03713
				Scale: 20:1	  Sheet 1 of 1

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