

Ratings

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

Conductor

Conductor count: 1
 Gauge: 28 AWG 0.08 mm²
 Material: tinned copper strands
 Strand size: $\varnothing 0.127(x 7)$ mm
 Resistance at 20 °C: 239 Ω /km max

Insulator

Material: PVC
 Color: Purple
 Diameter: $\varnothing 1.2 \pm 0.10$ mm
 Nominal thickness: 0.38 mm
 Resistance at 20 °C: 2.5 M Ω /kft

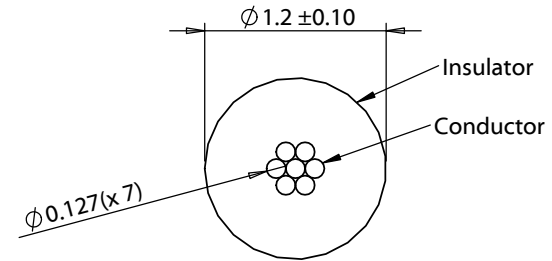
Wire marking: E339579 UL AWM STYLE 1569 105°C 300V or 1007
 28 AWG 80°C 300V VW-1 --- cUL AWM I A 105°C 300V FT1 TENSILITY



Tests

Insulation tensile strength: 10.3 MPa
 After aging at 136 ± 1 °C for 7 days:
 Minimum tensile strength 70 % original
 Minimum elongation 65 % original
 Heat shock: 136 ± 1 °C / 1 hour, no observed degradation
 Deformation: Load 2.45N, 121 ± 1 °C / 1 hour
 Maximum decrease in thickness 50%
 Cold bend: -25 ± 2 °C / 4 hour, no observed cracking
 Spark test: 3000 V

Minimum Bend Radius

Static: 4 times diameter (4.8 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: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description:	Size: Part number:
				Wire, hook-up, TS, 28 AWG, UL1007, UL1569, 300V, 105C, 1.2 mm, VW-1, PVC, purple	A 30-03767
				Scale: 20:1	  Sheet 1 of 1

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