

**Ratings**

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

**Conductor**

Conductor count: 1  
 Gauge: 30 AWG 0.05 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size:  $\varnothing 0.1(x 7)$  mm  
 Resistance at 20 °C: 381  $\Omega$  /km max

**Insulator**

Material: PVC  
 Color: Black  
 Diameter:  $\varnothing 1.1 \pm 0.10$  mm  
 Nominal thickness: 0.38 mm  
 Resistance at 20 °C: 2.5 M $\Omega$  /kft

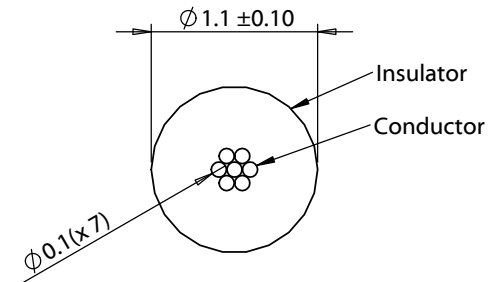
**Wire marking:** E339579 UL AWM STYLE 1569 105°C 300V or 1007  
 30 AWG 80°C 300V VW-1 --- cUL AWM I A 105°C 300V FT1 TENSILITY


**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 (4.4 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, 30 AWG, UL1007, UL1569, 300V, 105C, 1.1 mm, VW-1, PVC, black	A 30-03771	
				Scale: 20:1		Sheet 1 of 1

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