

Ratings

Voltage: 300 V
 Temperature: 80 °C
 Flammability: VW-1

Conductor

Conductor count: 1
 Gauge: 18 AWG 0.9 mm²
 Material: tinned copper strands
 Strand size: $\varnothing 0.404 \times 7$
 Resistance at 20 °C (not under suspension): 23.2 Ω /km max
 Resistance at 20 °C (under suspension): 120 Ω /km max

Insulator

Material: PVC
 Color: white
 Diameter: $\varnothing 2 \pm 0.1$ mm
 Nominal thickness: 0.38 mm
 Resistance at 20 °C: 10 M Ω /km min

Braided shield

Type: braided
 Material: tinned copper strands
 Stranding: 16/6/ $\varnothing 0.10$ mm
 Coverage: 90% minimum

Inner jacket

Material: PVC
 Color: white
 Diameter: $\varnothing 3.2 \pm 0.15$ mm
 Nominal thickness: 0.38 mm
 Resistance at 20 °C: 10 M Ω /km

Load bearing braid

Type: braided
 Material: 304 SS
 Stranding: 16/8/ $\varnothing 0.10$ mm
 Coverage: 90% minimum
 Suspension rating: 10 kg (22 lb) max

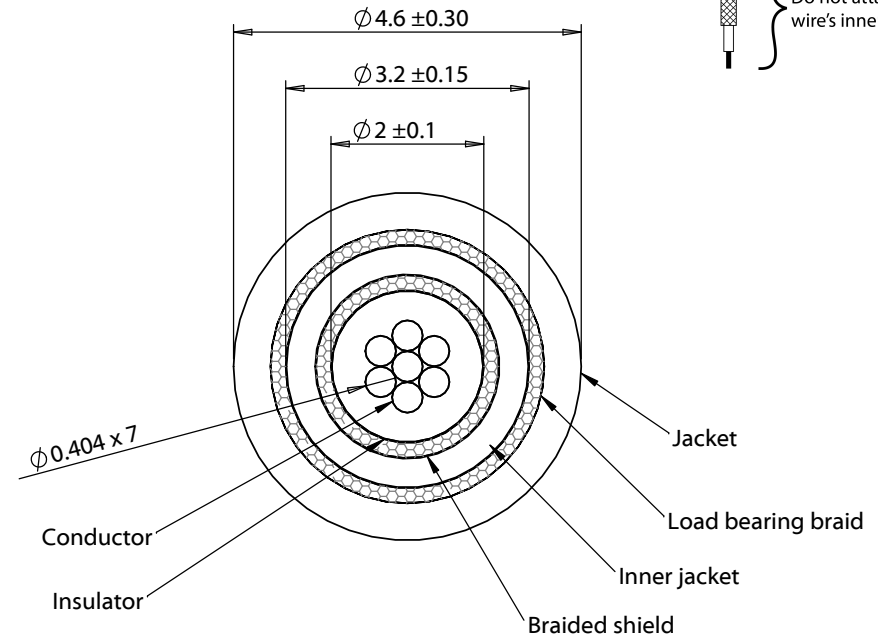
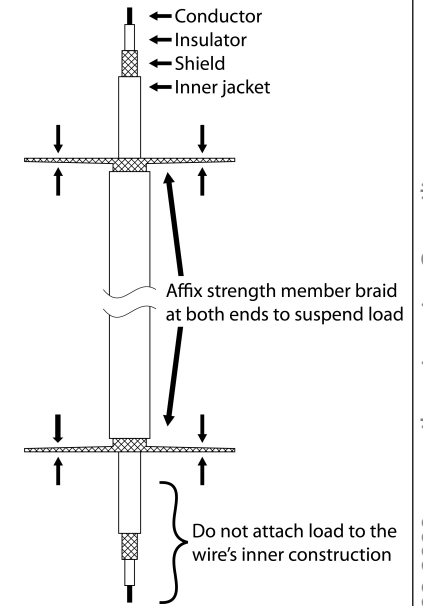
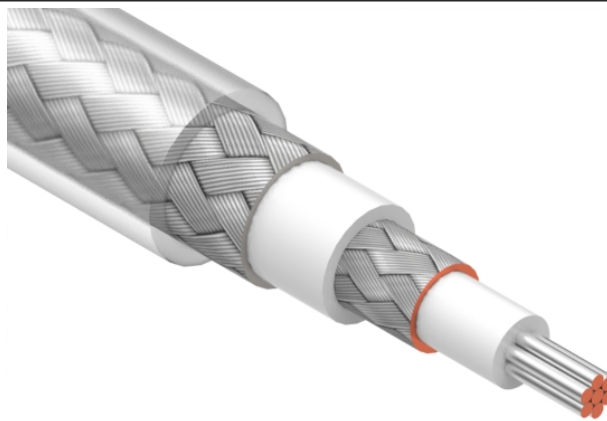
Outer jacket

Material: PVC
 Color: clear
 Diameter: $\varnothing 4.6 \pm 0.30$ mm
 Nominal thickness: 0.45 mm

Wire Marking: E339579 UL AWM STYLE 1185 18 AWG 80°C
 300V VW-1 - - - cUL AWM I A 80°C 300V FT1 TENSILITY DGT
 Marking color: white

Tests

Voltage test: 300 V
 Spark test: 3.0 kV
 Insulation 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 ± 2 °C /1 hour, no observed cracking
 Dielectric test: 2000 Vac for 1 minute without breakdown



Revision:	Date:	Description:	Prepared:	Notes: Load rating: 10 kg (22 lb) max hanging weight when properly secured to stainless steel load bearing braid	<h1>TENSILITY</h1> tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	12/8/2020	Initial release	Verified:		
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	RoHS compliant	Size: A
				Description: Wire, 1C TS, 18 AWG, 1185, 300V, 80C, 4.6 mm, shielded, VW-1, PVC, clear	Part number: 30-01243
					Scale: 10:1
					Sheet 1 of 1

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