

Ratings

Voltage: 300 V
Temperature: -25 ~ 80 °C
Flammability: VW-1

Conductor

Conductor count: 1
Gauge: 18 AWG 0.82 mm²
Material: bare copper strands
Strand size: $\varnothing 0.16 \times 41$ mm
Resistance at 20 °C: 21.8 Ω /km max

Insulator

Material: PVC
Color: white
Diameter: $\varnothing 2.05 \pm 0.10$ mm
Nominal thickness: 0.41 mm
Resistance at 20 °C: 10 M Ω /km min

Shield

Type: spiral
Material: tinned copper strands
Stranding: $\varnothing 0.16 \times 41 \pm 3$
Coverage: 90% minimum

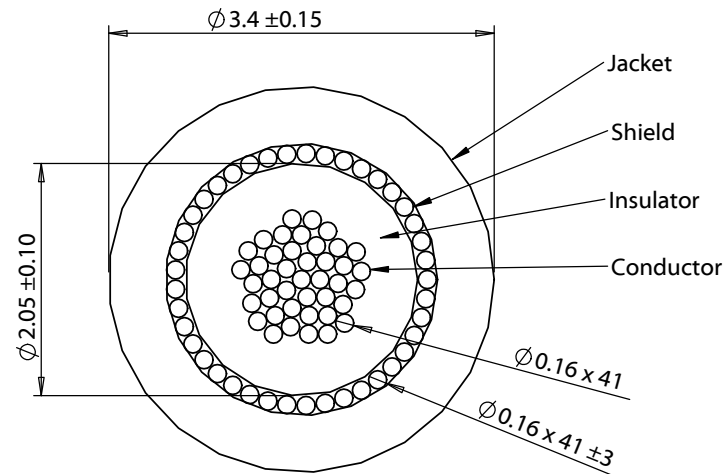
Outer jacket

Material: PVC
Color: Black
Diameter: $\varnothing 3.4 \pm 0.15$ mm
Nominal thickness: 0.50 mm

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

Tests

Insulation tensile strength: 2.11 kgf/mm²
Jacket 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



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	10/15/20110	Initial release	Verified:	RoHS and REACH compliant Function test: no open, no short circuit, no intermittent			
A1	8/13/2012	Added operating temperature	Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Wire, 1C BC, 18 AWG, UL1185, 300V, 80C, 3.4 mm, shielded, VW-1, PVC	Size:	Part number:	
A2	7/20/2018	Corrected tolerance			A	30-00004	
A3	8/2/2018	Increased operating temperature range			Scale:	15:1	Sheet 1 of 1

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