

Ratings

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

Conductor

Conductor count: 1
 Gauge: 20 AWG 0.52 mm²
 Material: tinned copper strands
 Strand size: $\phi 0.16 \times 26$ mm
 Resistance at 20 °C: 36.7 Ω /km max

Insulator

Material: PVC
 Color: white
 Diameter: $\phi 1.85 \pm 0.10$ mm
 Nominal thickness: 0.43 mm
 Resistance at 20 °C: 10 M Ω /km min

Shield

Type: spiral
 Material: tinned copper strands
 Stranding: $\phi 0.1 \times 57$
 Coverage: 90% minimum

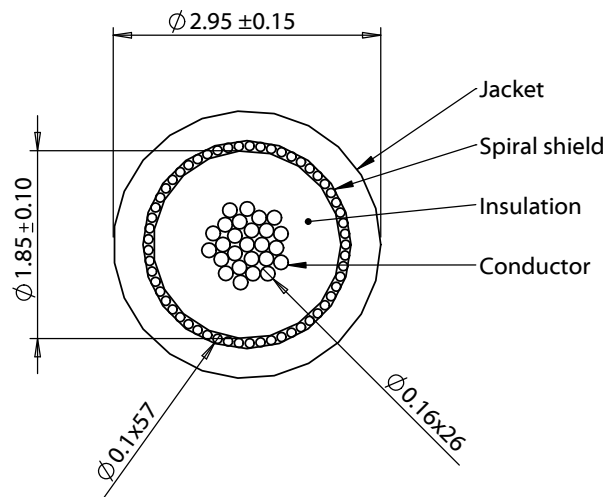
Outer jacket

Material: PVC
 Color: black
 Diameter: $\phi 2.95 \pm 0.15$ mm
 Nominal thickness: 0.45 mm

Wire marking: E339579 UL AWM STYLE 1185 20 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:
A	6/20/2014	Initial release
A1	09/07/2018	Increased operating temperature range

Prepared: JP
Digitally signed by JP
 Date: 2018.09.07 08:53:26 -0700

Verified: PS
Digitally signed by PS
 Date: 2018.09.07 11:30:12 -0700

Dimensions are in millimeters.
 Tolerances:
 X: ± 0.5 mm
 X.X: ± 0.3 mm
 X.XX: ± 0.05 mm

Notes:
 RoHS and REACH compliant

Function test: no open, no short circuit, no intermittent

Description:
 Wire, 1C TS, 20 AWG, UL1185, 300V, 80C, 2.95 mm, shielded, VW-1, PVC

TENSILITY

tel 1.541.323.3228 800 877.670.7118
 fax 1.541.323.4202 web tensility.com

Size: A	Part number: 30-00338
Scale: 12:1	Sheet 1 of 1