

**Ratings**

Voltage: 300 V  
 Temperature: -20 ~ 80 °C

**Conductor**

Gauge: 20 AWG  
 Material: tinned copper strands  
 Strand size:  $\varnothing 0.16$  mm  
 Strand count: 26

**Insulator**

Material: PVC, 80 °C  
 Color: white  
 Nominal thickness: 0.38 mm  
 Outer diameter:  $1.85 \pm 0.10$  mm

**Shield**

Type: spiral  
 Material: tinned copper strands  
 Strand size:  $\varnothing 0.10$  mm  
 Strand count: 57

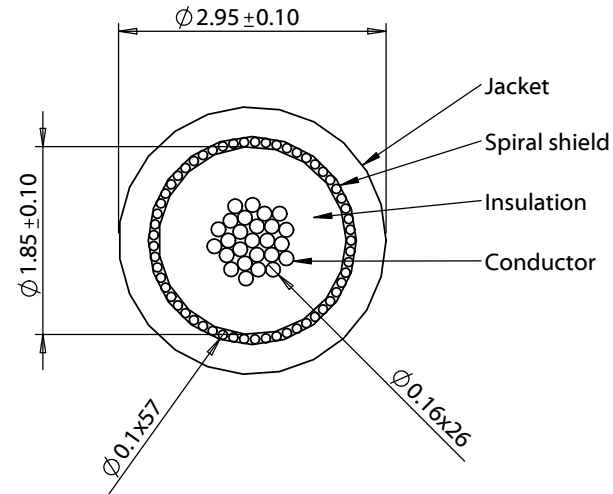
**Outer jacket**

Material: PVC, 80 °C  
 Color: black  
 Thickness: 0.38 mm  
 Diameter:  $2.95 \pm 0.10$  mm  
 Durometer: 79 Shore A

**Wire marking:** E339579 AWM STYLE 1185 20AWG 80°C 300V VW-1 --- C AWM I A 80°C 300V FT1 TENSILITY HLE

**Tests**

Voltage test: 300 V  
 Spark test: 3.0/4.0 kV  
 Max resistance at 20 °C: 36.7 ohm/km  
 Tensile strength: 1.05 kgf/mm<sup>2</sup>  
 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 ± 1 °C /1 hour, no observed cracking  
 Flammability: VW-1  
 Dielectric test: 2000 V ac for 1 minute without breakdown



REVISION	DATE	DESCRIPTION
A	06/20/2014	Initial release

PREPARED:

NOTES:

RoHS and REACH compliant

VERIFIED:

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

DIMENSIONS ARE IN MILLIMETERS

DESCRIPTION:

Wire, 1C TS, 20 AWG, UL1185, 300V, 80C, 2.95 mm, shielded, VW-1, PVC, 79A

TOLERANCES:  
 X: ± 0.5 mm  
 X.X: ± 0.3 mm  
 X.XX: ± 0.05 mm

**TENSILITY**

20802 Sockeye Place #130  
 Bend, OR 97701 USA  
 tel 541.323.3228 fax 541.323.4202  
 800 877.670.7118 www.tensility.com

SIZE

A

PART NUMBER

**30-00338**

SCALE: 12:1

WEIGHT:

SHEET 1 OF 1