

**Ratings**

Voltage: 300 V

Temperature: -20 ~ 80 °C

**Conductor**

Gauge: 18 AWG

Material: bare copper strands

Strand size: Ø 0.16 mm

Strand count: 41

**Insulator**

Material: PVC, 80 °C

Color: white

Outer diameter: 2.05 ±0.10 mm

Durometer: 85 Shore A

**Shield**

Type: spiral

Material: tinned copper strands

Strand size: Ø 0.16 mm

Strand count: 41

**Outer jacket**

Material: PVC, 80 °C

Durometer: 79 Shore A

Color: black

Thickness: 0.38 mm

Diameter: 3.4 ±0.10 mm

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

**Tests**

Voltage test: 300 V

Spark test: 3.0/4.0 kV

Max resistance at 20 °C: 23.2 ohm/km

Tensile strength: 1.05 kgf/mm²

After aging at 113 ±2 °C for 7 days:

Minimum tensile strength 70 % original

Minimum elongation 65 % original

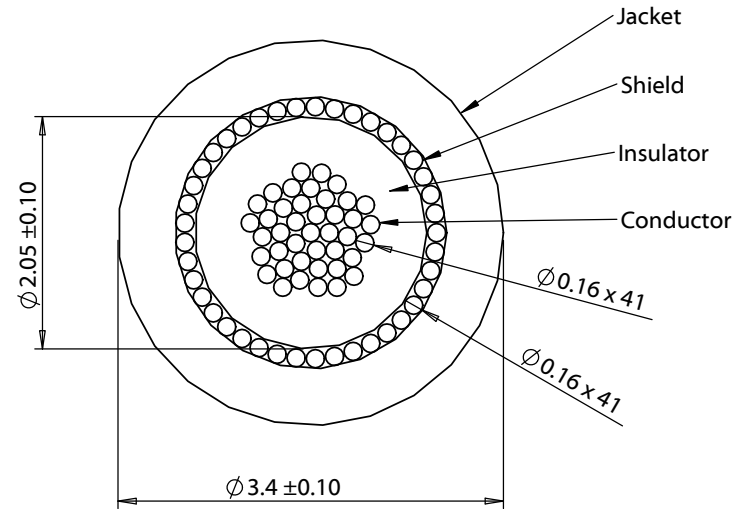
Heat shock: 121 ±1 °C /1 hour, no observed degradation

Deformation: 121 ±1 °C /1 hour, ≤ 50 %

Cold bend: -10 ±1 °C /1 hour, no observed cracking

Flammability: VW-1

Dielectric test: 2000 V ac for 1 minute without breakdown



| REVISION | DATE       | DESCRIPTION                 |
|----------|------------|-----------------------------|
| A        | 10/15/2010 | Initial release             |
| A1       | 8/13/2012  | Added operating temperature |
|          |            |                             |
|          |            |                             |
|          |            |                             |

PREPARED:

NOTES:

RoHS and REACH compliant

VERIFIED:

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

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, 79A

# 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**  
**30-00004**

SCALE: 12:1

WEIGHT:

SHEET 1 OF 1