

**Ratings**

Voltage: 300 V  
 Temperature: -10 to 105 °C  
 Flammability: VW-1

**Conductor**

Conductor count: 2  
 Gauge: 18 AWG 0.82 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size: Ø 0.18 mm x 34

**Outer jacket**

Material: PVC/38P  
 Color: red and black  
 Diameter: 4.4 ±0.30 mm (2.2 ±0.15 x 2)  
 Nominal thickness: 0.38 mm

**Electrical requirements**

Voltage test: 300 V  
 Spark test: 3.0 kV  
 Conductor maximum resistance at 20 °C: 23.2 ohms/km  
 Jacket resistance at 20 °C: 10 Mohms/km  
 Dielectric test: 2000 Vac for 1 minute with no breakdown

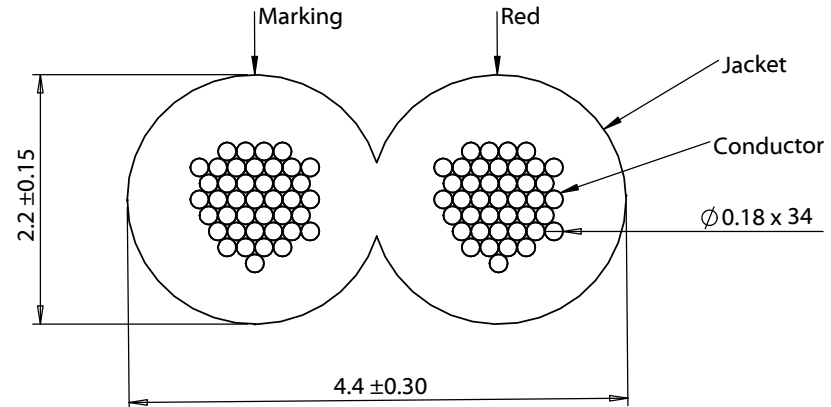
**Mechanical requirements**

Jacket tensile strength: 1.05 kgf/mm<sup>2</sup>  
 After aging at 136±2 °C for 7 days:  
 Minimum tensile strength 70% of original  
 Minimum elongation 65% of original

**Environmental requirements**

Heat shock: 136±1 °C/1 hour, no observed degradation  
 Deformation: 136±1 °C/1 hour, ≤50%  
 Cold bend: -10±2 °C/1 hour, no observed cracking

**Wire marking:** E339579 UL AWM STYLE 2651 18 AWG 105°C  
 300V VW-1 --- cUL AWM I A 105°C 300V FT1 TENSILITY



Revision:	Date:	Description:
A	9/2/2016	Initial release
A1	12/6/2016	Changed to UL 2651

Prepared: **GL**  
Digitally signed by GL  
 Date: 2017.10.05  
 15:29:00 -0700

Verified: **AG**  
Digitally signed by AG  
 Date: 2017.10.20  
 10:56:23 -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, 2C TS, 18 AWG, UL2651, 300V, 105C, 4.4 mm, VW-1, PVC, red and black

**TENSILITY**

tel 1.541.323.3228 800 877.670.7118  
 fax 1.541.323.4202 web tensility.com

Size: A Part number: 30-00795

Scale: 15:1 Sheet 1 of 1