

Ratings

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

Conductor

Conductor count: 2
 Gauge: 18 AWG 0.82 mm²
 Material: tinned copper strands
 Strand size: $\varnothing 0.18 \times 34$

Outer jacket

Material: PVC/38P
 Color: black
 Diameter: 4.4 ± 0.30 mm ($2.2 \pm 0.15 \times 2$)
 Nominal thickness: 0.47 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

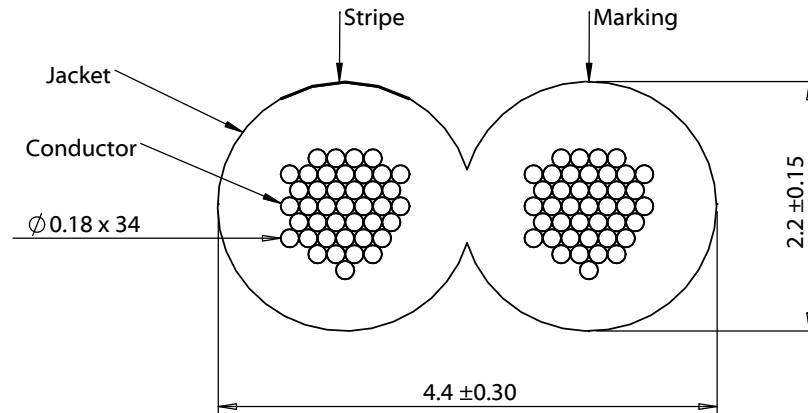
Mechanical requirements

Jacket tensile strength: 1.05 kgf/mm²
 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, $\leq 50\%$
 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:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	12/6/2016	Initial release	Verified:	RoHS and REACH compliant Function 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, 2C TS, 18 AWG, UL2651, 300V, 105C, 4.4 mm, VW-1, PVC	Size: Part number: A 30-00793
					Scale: 15:1 Sheet 1 of 1