

**Ratings**

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

**Conductor**

Conductor count: 2  
 Gauge: 18 AWG 0.82 mm<sup>2</sup>  
 Material: tinned copper strands  
 Strand size:  $\varnothing 0.16 \times 41$   
 Resistance at 20 °C: 23.2  $\Omega$  /km max

**Insulator**

Material: PVC  
 Color: red, black  
 Diameter:  $\varnothing 1.8 \pm 0.10$  mm  
 Nominal thickness: 0.29 mm  
 Resistance at 20 °C: 10 M $\Omega$  /km min

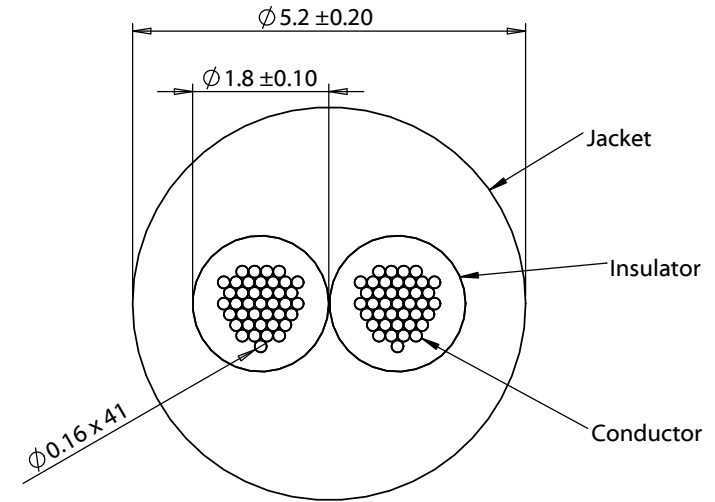
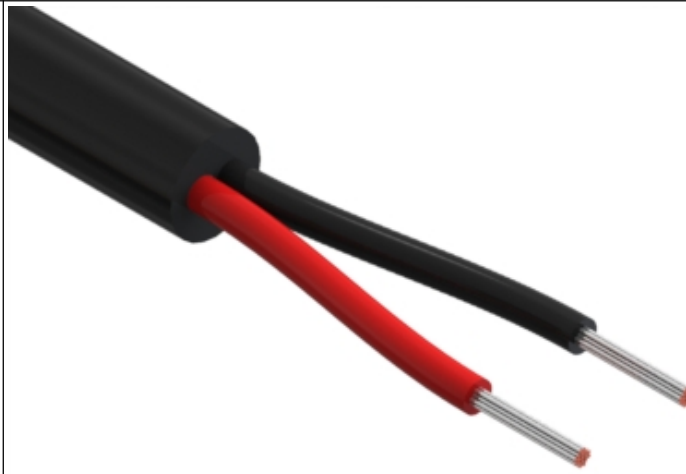
**Outer jacket**

Material: PVC  
 Color: black  
 Diameter:  $\varnothing 5.2 \pm 0.20$  mm  
 Nominal thickness: 0.80 mm

**Wire marking:** E339579 UL AWM STYLE 2464 18 AWG 80°C  
 300V VW-1 - - - cUL AWM I/II A 80°C 300V FT1 TENSILITY

**Tests**

Insulation tensile strength: 2.11 kgf/mm<sup>2</sup>  
 Jacket tensile strength: 1.05 kgf/mm<sup>2</sup>  
 After aging at 113  $\pm 2$  °C for 7 days:  
 Minimum tensile strength 70 % original  
 Minimum elongation 65 % original  
 Heat shock: 121  $\pm 1$  °C /1 hour, no observed degradation  
 Deformation: 121  $\pm 1$  °C /1 hour,  $\leq 50$  %  
 Cold bend: -10  $\pm 2$  °C /1 hour, no observed cracking



Revision:	Date:	Description:	Prepared:	Notes:	<b>TENSILITY</b> tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	01/22/2016	Initial release	AW <small>Digitally signed by AW Date: 2018.09.06 14:43:56 -07'00'</small>	RoHS and REACH compliant	
A1	09/06/2018	Increased operating temperature range	Verified: PS <small>Digitally signed by PS Date: 2018.09.06 15:21:48 -07'00'</small>	Function test: no open, no short circuit, no intermittent	Size: Part number: A 30-00683
			Dimensions are in millimeters. Tolerances: X: $\pm 0.5$ mm X.X: $\pm 0.3$ mm X.XX: $\pm 0.05$ mm	Description: Wire, 2C TS, 18 AWG, UL2464, 300V, 80C, 5.2 mm, VW-1, PVC	Scale: 10:1  Sheet 1 of 1

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