

**Ratings**

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

**Conductor**

Conductor count: 8  
Gauge: 18 AWG 0.82 mm<sup>2</sup>  
Material: tinned copper strands  
Strand size:  $\phi$ 0.16 mm x 41  
Resistance at 20 °C: 23.2  $\Omega$  /km max

**Insulator**

Material: PVC  
Color: red, black, white, yellow, blue, green, orange, purple  
Diameter:  $\phi$ 1.8  $\pm$ 0.10 mm  
Nominal thickness: 0.29 mm  
Resistance at 20 °C: 10 M $\Omega$  /km min

**Filler**

Material: cotton rope

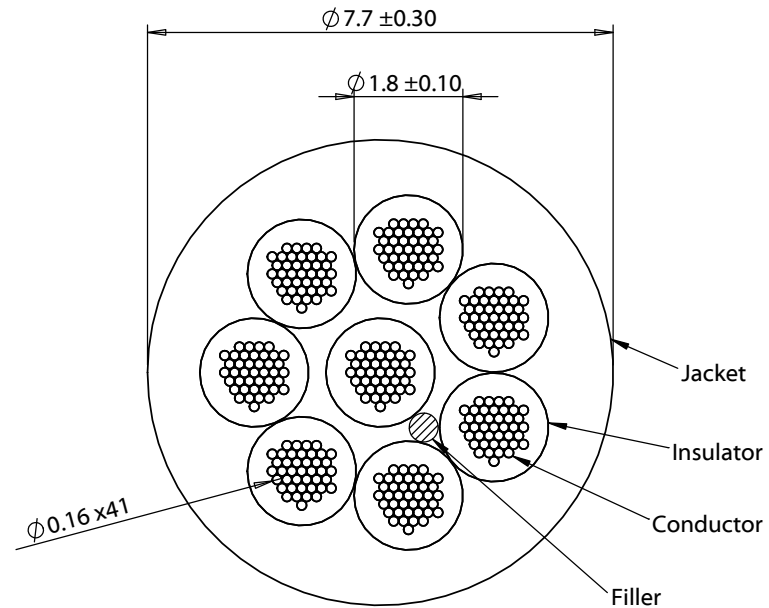
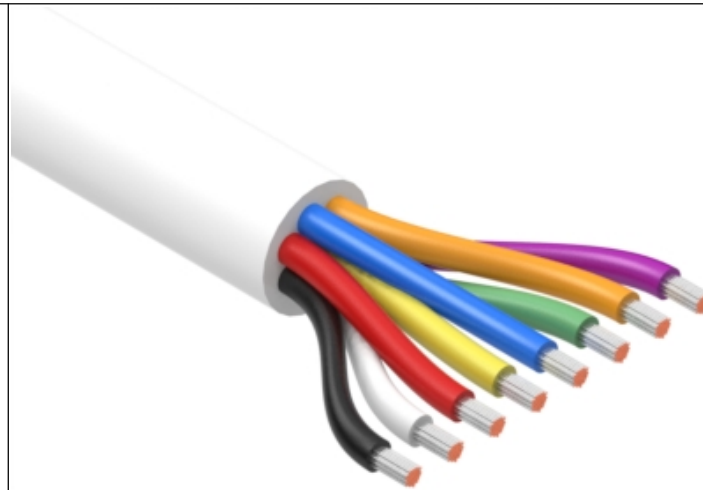
**Outer jacket**

Material: PVC  
Color: white  
Diameter:  $\phi$ 7.7  $\pm$ 0.30 mm  
Nominal thickness: 0.88 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:
A	5/16/2019	Initial release

Prepared: <b>AW</b> <small>Digitally signed by AW Date: 2019.05.16 14:10:16 -07'00'</small>
Verified: <b>JP</b> <small>Digitally signed by JP Date: 2019.05.17 12:05:38 -07'00'</small>
Dimensions are in millimeters. Tolerances: X: $\pm$ 0.5 mm X.X: $\pm$ 0.3 mm X.XX: $\pm$ 0.05 mm

Notes: RoHS compliant
Function test: no open, no short circuit, no intermittent
Description: Wire, 8C TS, 18 AWG, UL2464, 300V, 80C, 7.7 mm, VW-1, PVC, 60P, white

**TENSILITY**

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Size: A	Part number: 30-01311
Scale: 8:1	Sheet 1 of 1