

Ratings

Voltage: 300 V
Temperature: -40 ~ 80 °C
Flammability: VW-1

Conductor

Conductor count: 3
Gauge: 18 AWG 0.82 mm²
Material: tinned copper strands
Strand size: $\phi 0.16 \times 41$
Resistance at 20 °C: 23.2 Ω /km max

Insulator

Material: PVC
Color: white, black, green
Diameter: $\phi 1.8 \pm 0.10$ mm
Nominal thickness: 0.29 mm
Resistance at 20 °C: 0.75 M Ω /km min

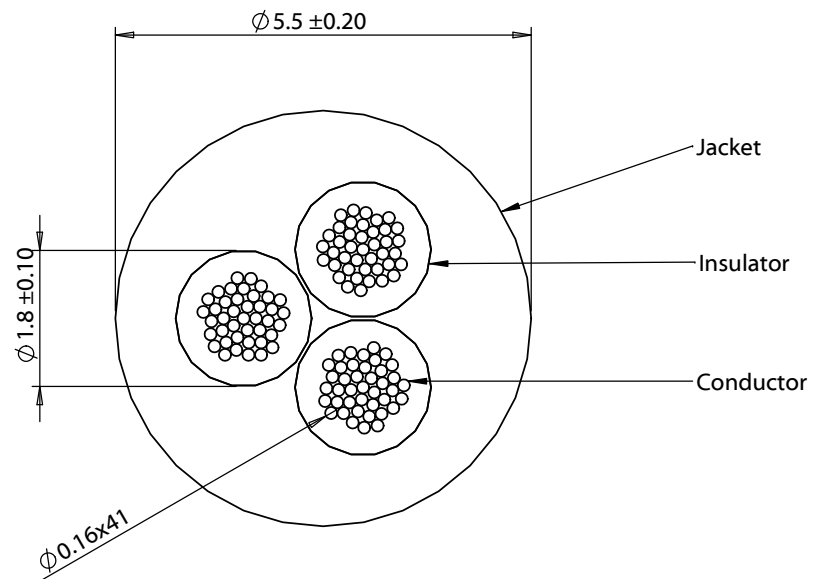
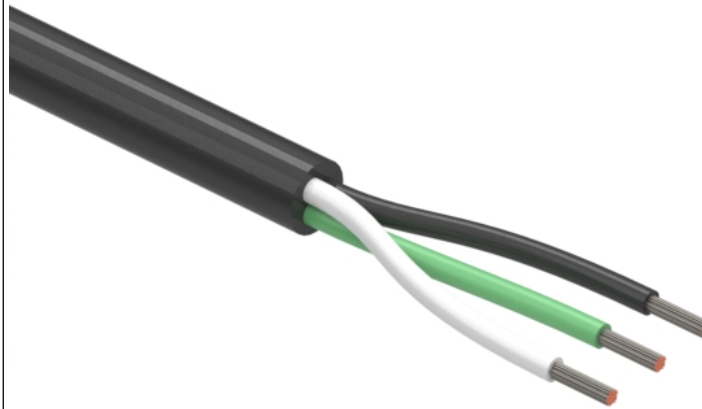
Outer jacket

Material: PVC
Color: black
Diameter: $\phi 5.5 \pm 0.20$ 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 LF TENSILITY

Tests

Insulation tensile strength: 2.11 kgf/mm²
Jacket tensile strength: 1.05 kgf/mm²
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:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	06/30/2025	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, 3C TS, 18 AWG, UL2464, 300V, 80C, 5.5 mm, VW-1, PVC	Size: A	Part number: 30-03646	
					Scale: 10:1		Sheet 1 of 1

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