

Ratings

Voltage: 30 V

Temperature: -20 ~ 70° C

Conductor

Conductor count: 3

Gauge: 28 AWG 0.1 mm²

Material: bare copper strands

Strand size: $\varnothing 0.08$ (x 19) mmResistance at 20 °C: 239 Ω /km max**Enamel**

Material: 3UEW-F

Diameter: 0.091 mm

Color(translucent): red, green, natural

Core

Material: Nylon 150D

Outer jacket

Material: TPU

Color: Black

Diameter: $\varnothing 1.8 \pm 0.10$ mm

Nominal thickness: 0.35 mm

Tests

Jacket tensile strength: 10.3 Mpa

After aging at 113 ± 2 °C for 168 hours:

Minimum jacket tensile strength 70 % original

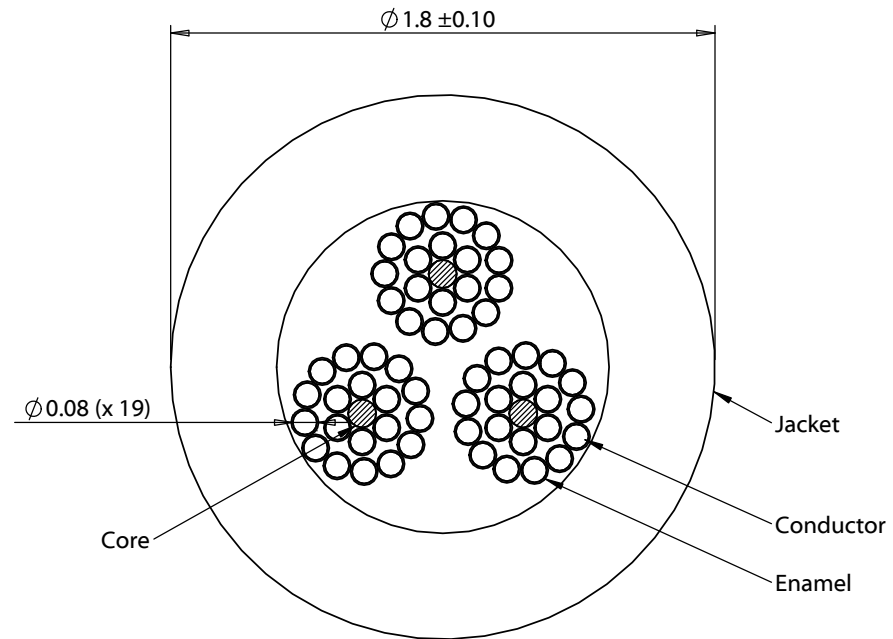
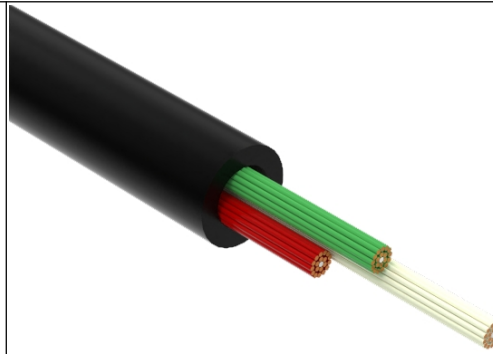
Minimum jacket elongation 65 % original

Heat shock: 121 ± 1 °C /1 hour, no observed degradationDeformation: 121 ± 1 °C /1 hour, ≤ 50 %Cold bend: 10 ± 2 °C /4 hour, no observed cracking

Jacket spark test: 1500 Vac for 1 minute without breakdown

Note:

Enamelled wire requires special processing to be soldered correctly. It is recommended to use a solder pot to burn off the enamel and then to tin the wire to ensure proper termination can be achieved.



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	06/24/2026	Initial release	CR	RoHS compliant			
			Verified: KM	Function test: no open, no short circuit, no intermittent	Size:	Part number:	
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description:	A	30-03810	
				Wire, 3C, BC, 28 AWG, 30V, 70C, 1.8 mm, TPU, black, UEW	Scale: 40:1		Sheet 1 of 1

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