

Ratings
Voltage: 30 V
Temperature: -20 ~ 70° C

Conductor
Conductor count: 3
Gauge: 30 AWG, 0.05 mm²
Material: bare copper strands
Strand size: $\varnothing 0.08$ (x 11) mm
Resistance at 20 °C: 381 Ω /km max

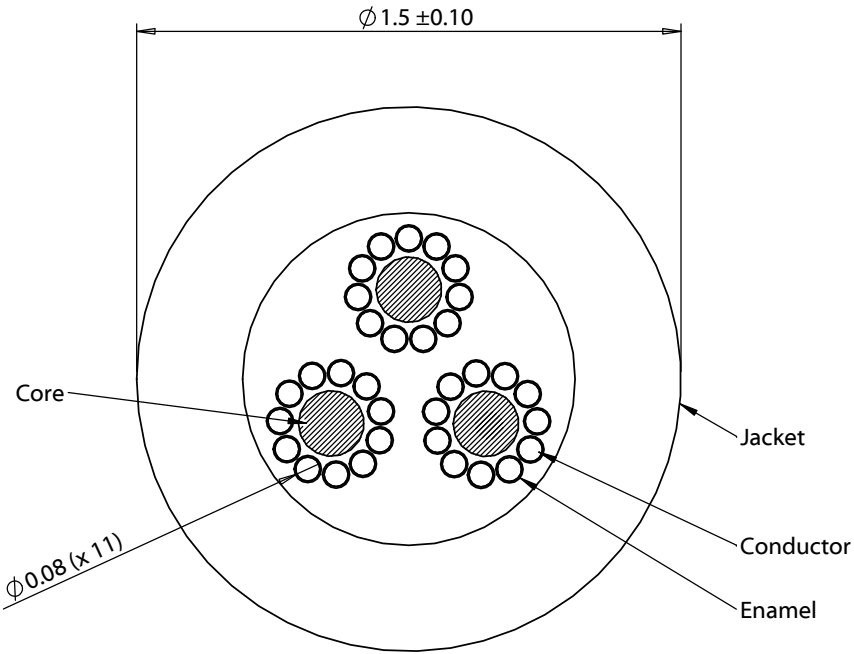
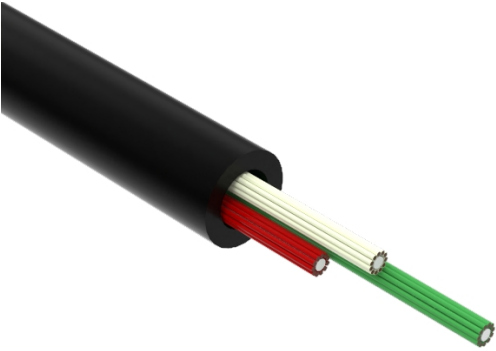
Enamel
Material: 3UEW-F
Diameter: 0.091 mm
Color(translucent): red, green, natural

Core
Material: Nylon 150D

Outer jacket
Material: TPU
Color: Black
Diameter: $\varnothing 1.5 \pm 0.10$ mm
Nominal thickness: 0.3 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 degradation
Deformation: 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:
Enameled 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: CR Digitally signed by CR Date: 2026.08.05 15:40:01 -07'00'	Notes: RoHS compliant	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	06/24/2026	Initial release	Verified: KM Digitally signed by KM Date: 2026.08.07 13:59:06 -07'00'	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, BC, 30 AWG, 30V, 70C, 1.5 mm, TPU, black, UEW	Size: A	Part number: 30-03812	
					Scale: 40:1		Sheet 1 of 1