

Ratings

Voltage: 30 V
Operating temperature: -35° to 80° C

Conductor

Conductor count: 5
Gauge: 24 AWG 0.2 mm²
Material: tinned copper strands
Strand size: Ø 0.08 mm x 40
Max resistance @ 20 °C: 94.2 ohm/km

Insulator

Material: PVC, 42P
Color: white, black, red, yellow, blue
Diameter: Ø 1.1 ±0.10 mm
Nominal thickness: 0.25 mm
Resistance at 20 °C: 10 MΩ / km

Filler

Material: cotton rope

Shield

Type: braided
Material: tinned copper strands
Stranding: 16/9/ Ø0.10 mm
Coverage: 90% minimum

Outer jacket

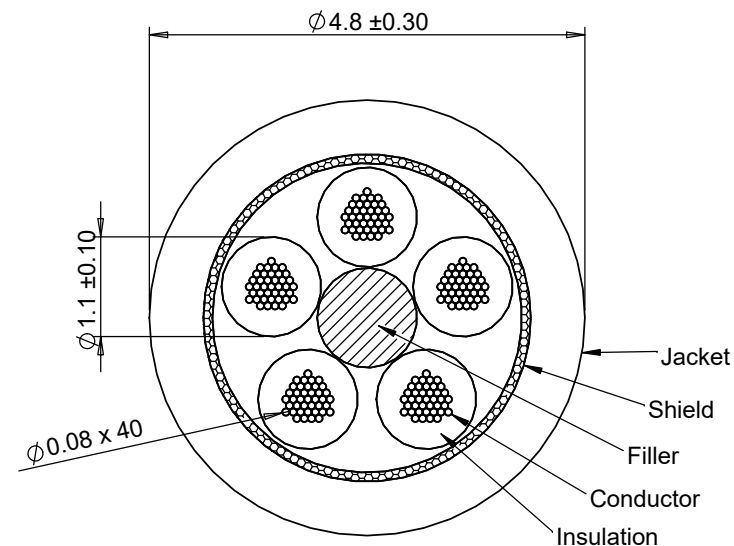
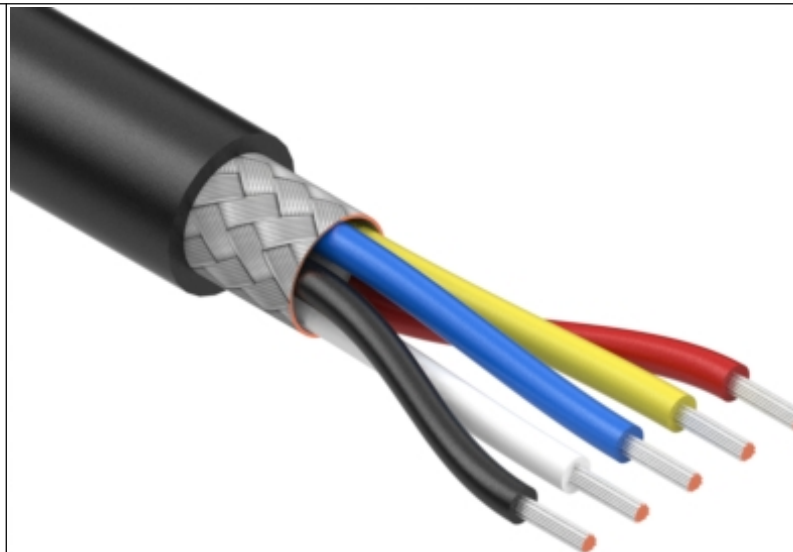
Material: TPE, 70A
Color: matte black
Diameter: Ø 4.8 ±0.30 mm
Nominal thickness: 0.66 mm

Wire marking: TENSILITY 24 AWG 30V 80°C 30-00829

Tests

Before aging:

Insulation tensile strength: 1.05 kgf/mm²
Jacket tensile strength: 0.84 kgf/mm²
Minimum jacket elongation >200 % original
Minimum insulation elongation >100 % original
Heat shock: 150 ±1 °C /1 hour, no observed degradation
Deformation: 121 ±1 °C /1 hour, ≤ 50 %
Cold bend: -10 ±2 °C /1 hour, no observed cracking
Dielectric test: 2000 Vac for 1 minute without breakdown



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	10/31/16	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:	Size:	Part number:	
				Wire, 5C TS, 24 AWG, 30V, 80C, 4.8 mm, braid shield, TPE, 70A	A	30-00829	
					Scale: 12:1		Sheet 1 of 1