

Ratings

Temperature: -40~70 °C
Voltage: 150 V

Conductor

Gauge: 18 AWG 0.82 mm²
Material: tinned copper strands
Strand size: $\phi 0.127 \times 65$
Resistance at 20 °C: 23.2 Ω /km max

Insulator

Material: HDPE
Color: purple, orange, green, blue, yellow, white, black, red
Diameter: $\phi 1.65 \pm 0.10$ mm
Nominal thickness: 0.23 mm
Resistance at 20 °C: 100 M Ω /km min

Shield

Type: spiral
Material: tinned copper strands
Stranding: $\phi 0.08$ mm
Coverage: 90 % min

Outer jacket

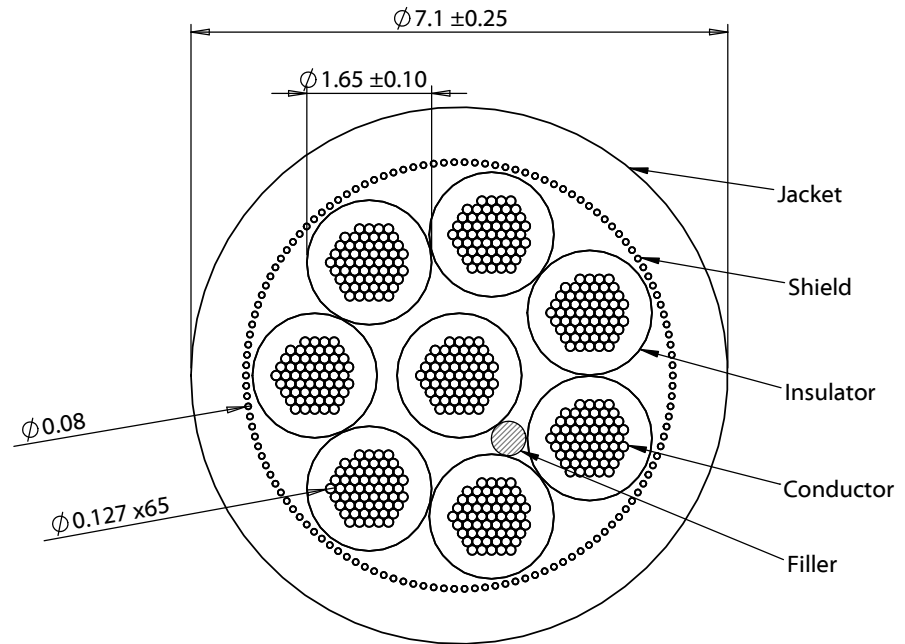
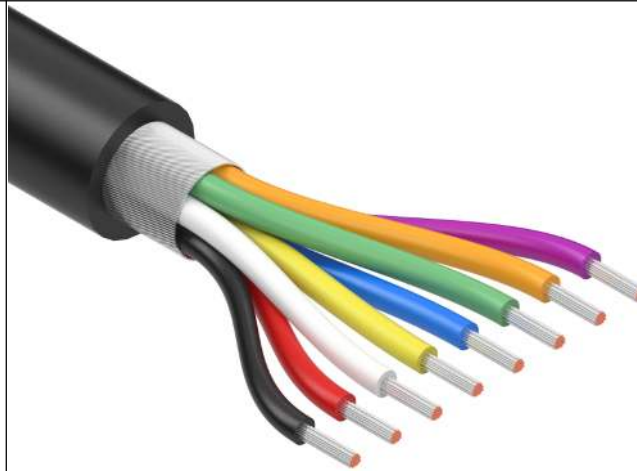
Material: TPU
Color: black
Nominal thickness: 0.74 mm
Diameter: $\phi 7.1 \pm 0.25$ mm

Filler

Material: aramid fiber

Tests

Tensile strength: 35.7 kgf min
Dielectric test: 1500 V dc for 1 minute without breakdown
Bend test at 200 g, $\pm 90^\circ$, 30 cycles /min: 15,000 cycle minimum



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	3/23/2021	Initial release	AW				
			Verified:	Description:	Size: Part number: A 30-01876		
			AG				
			Dimensions are in millimeters.	Wire, 8C TS, 18 AWG, 150V, 70C, 7.1 mm, shielded, TPU, 75A, WBL	Scale: 10:1		
			Tolerances:				
			X: ± 0.5 mm		Sheet 1 of 1		
			X.X: ± 0.3 mm				
			X.XX: ± 0.05 mm				

5

4

3

2

1