

Ratings
Voltage: 600 V
Temperature
Static: -40~105 °C
Dynamic: -20 ~ 105 °C
Flammability: VW-1
Water resistant: 75 °C
Oil resistant: 100 °C for 96 hours (jacket)
≥50% elongation and tensile strength after aging
UV resistance: jacket, 720 hours xenon or carbon arc exposure
≥80% tensile strength and elongation after aging

Conductor
Conductor count: 5
Gauge: 28 AWG 0.09 mm²
Material: tinned copper strands
Strand size: Ø 0.127 mm x 7
Resistance at 20 °C: 239 Ω /km max

Insulator
Material: PVC
Color: red, black, white, green, blue
Diameter: Ø1.2 ± 0.1mm
Nominal thickness: 0.38 mm
Resistance at 20 °C: 0.75 MΩ /km min

Wrap
Material: cotton paper

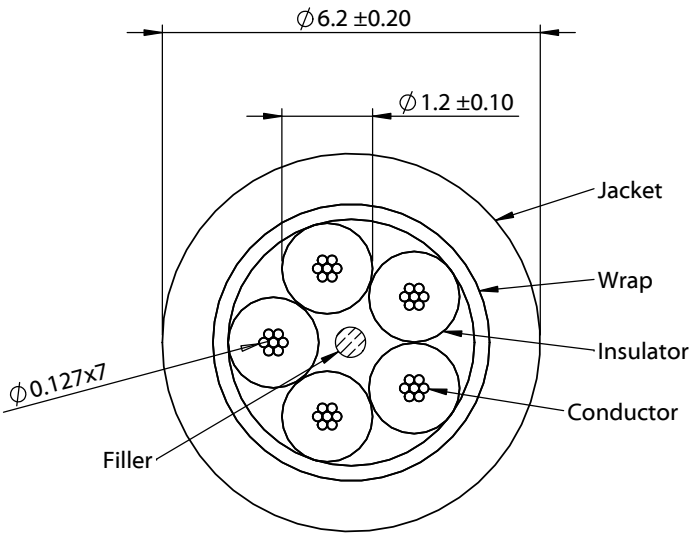
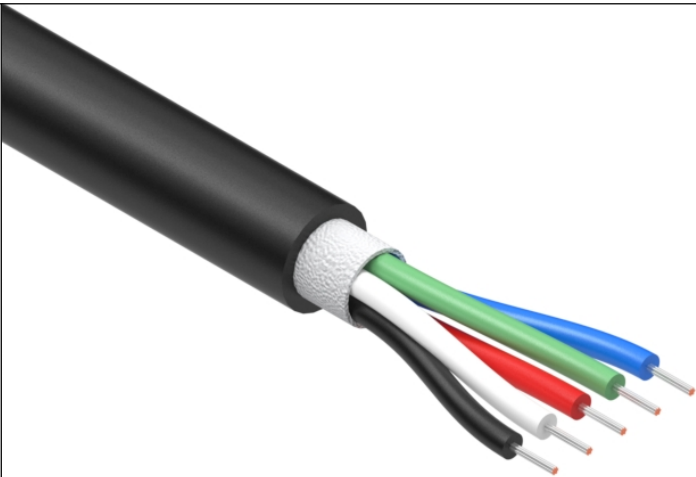
Filler
Material: cotton rope

Outer jacket
Material: TPU (Polyether Polyurethane)
Color: black
Diameter: Ø 5.2 ± 0.2 mm
Nominal thickness: 0.76 mm

Wire marking: E339579 UL AWM STYLE 21767 28 AWG105°C
600V VW-1 --- cUL AWM II A 105°C 600V FT1 60°C OIL
RESISTANT UV RESISTANT TENSILITY

Flex operation:
Static: 12 times the outer diameter (62.4 mm)
Dynamic: 15 times the outer diameter (78 mm)

Use: External wiring



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	04/17/2025	Initial release	Verified:	RoHS compliant Function: 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, 28 AWG, UL21767, 600V, 105C, 60C oil, UV, 6.2 mm, VW-1, TPU	A	30-03539	
					Scale: 10:1		Sheet 1 of 1