

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: 20 AWG 0.52 mm²

Material: tinned copper strands

Strand size: Ø 0.18 mm x 21

Resistance at 20 °C: 36.7 Ω/km max

Insulator

Material: PVC

Color: red, black, white, green, blue

Diameter: Ø1.8 ± 0.1 mm

Nominal thickness: 0.40 mm

Resistance at 20 °C: 0.75 MΩ/km min

Wrap

Material: cotton paper

Filler

Material: cotton rope

Outer jacket

Material: TPU (Polyether Polyurethane) 85A

Color: black

Diameter: Ø 7.0 ± 0.2 mm

Nominal thickness: 0.76 mm

Wire marking: E339579 UL AWM STYLE 21767 20AWG 105°C

600V VW-1 --- cUL AWM II A 105°C 600V FT1 60°C OIL

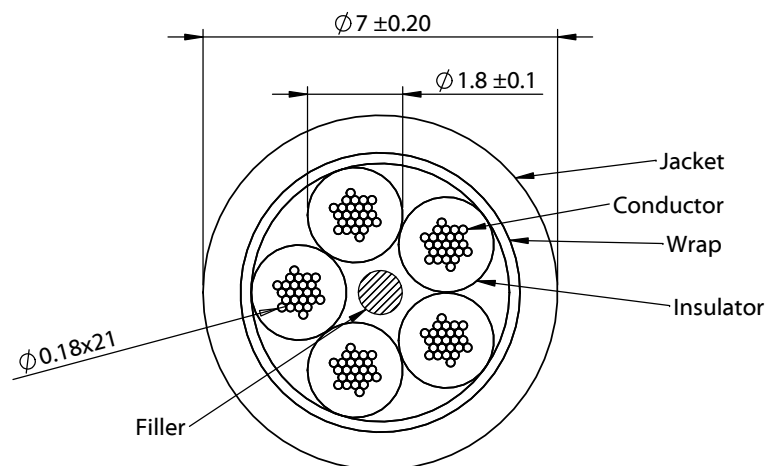
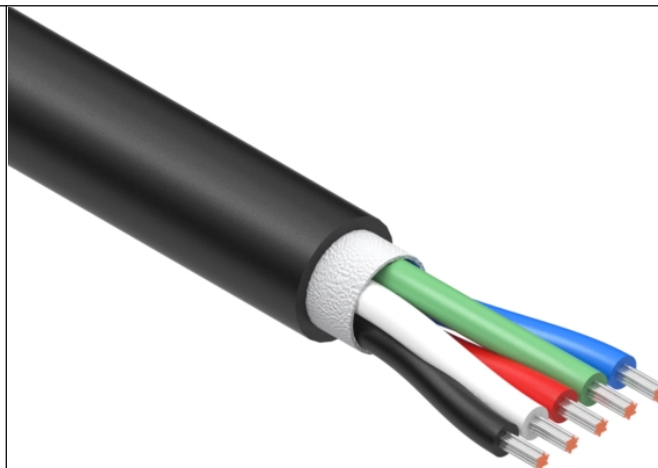
RESISTANT UV RESISTANT TENSILITY

Flex operation:

Static: 12 times the outer diameter (84 mm)

Dynamic: 15 times the outer diameter (105 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: Wire, 5C TS, 20 AWG, UL21767, 600V, 105C, 60C oil, UV, 7.0 mm, VW-1, TPU	Size: A	Part number: 30-03535	
					Scale: 7:1		Sheet 1 of 1

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