Ratings
Voltage: 300 V
Temperature
Static: -40~105 °C
Dynamic: -20 ~ 105 °C
Flammability: VW-1
Water resistant: 75 °C
Oil resistant: 60 °C (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: 3
Gauge: 24 AWG 0.21 mm²
Material: tinned copper strands
Strand size: Ø 0.08 mm x 41
Resistance at 20 °C: 94.2 Ω /km max

Insulator
Material: PVC
Color: red, black, white
Diameter: Ø1.4 ± 0.1mm
Nominal thickness: 0.38 mm
Resistance at 20 °C: 10 MΩ /km min

Drain
Stranding: Ø 0.08 mm x 41
Material: tinned copper strands

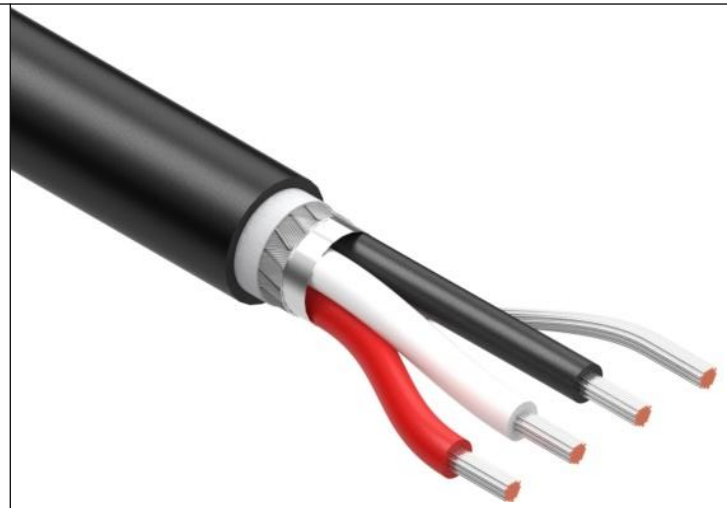
Wrap
Material: cotton paper

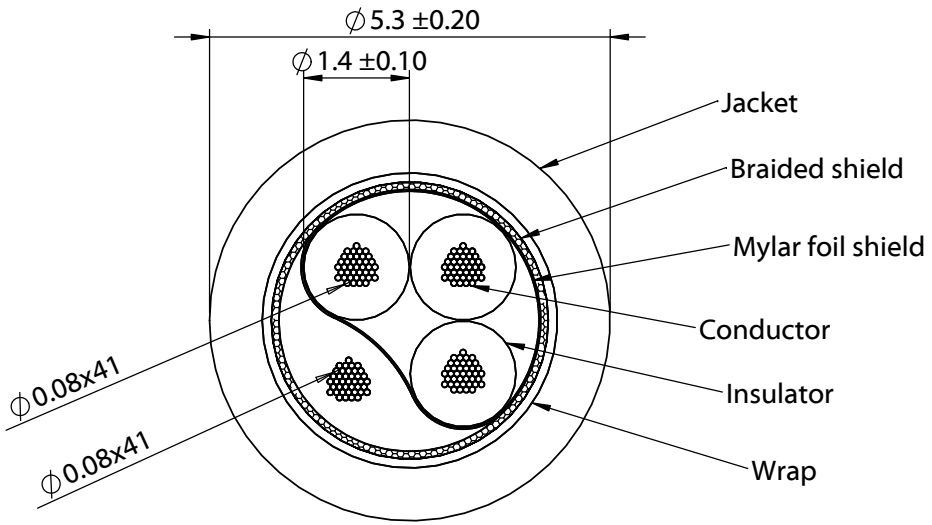
Shield
Type: aluminum mylar + tinned copper braid
Coverage: 65% min braid, 100% foil
Braid stranding: Ø0.10 mm

Outer jacket
Material: TPU (Polyether Polyurethane) 85A
Color: black
Diameter: Ø 5.3 ± 0.2 mm
Nominal thickness: 0.76 mm

Wire marking:
E339579 UL AWM STYLE 21765 24AWG 105°C 300V VW-1 --- cUL AWM II A 105°C 300V FT1 TENSILITY

Use: External wiring





Revision:	Date:	Description:
A	4/3/2023	Initial release

Prepared: MP Digitally signed by MP Date: 2023.04.18 11:55:06 -07'00'

Verified: PB Digitally signed by PB Date: 2023.04.19 16:11:20 -07'00'

Dimensions are in millimeters.
Tolerances:
X: ± 0.5 mm
X.X: ± 0.3 mm
X.XX: ± 0.05 mm

Notes:

RoHS compliant

Function test: no open, no short circuit, no intermittent

Description:

Wire, 3C TS, 24 AWG, UL21765, 300V, 105C, 60C oil, UV, 5.3 mm, shielded, VW-1, TPU

TENSILITY
tel 1.541.323.3228 800 877.670.7118
fax 1.541.323.4202 web tensility.com

Size: A

Part number: 30-02999

Scale: 10:1

Sheet 1 of 1

To see a custom version of this cable assembly, call Tensility at 541-323-3228 or email engineering@tensility.com

5 4 3 2 1

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