Ratings
Voltage: 300 V
Temperature: -30~75°C (static). -20~75°C (dynamic)
Flammability: FT6

Conductors (Signal 1PR, Power 1PR)
Gauge: 22 AWG 0.32 mm² (signal), 18 AWG 0.82 mm² (power)
Conductor: tinned copper strands
Signal: ∅0.15 (x19)
Power: ∅0.235 (x19)
Conductor resistance at 20 °C:
59.4 Ω /km max (signal), 23.2 Ω /km max (power)

Insulation
Color: white/green (signal), red/black (power)
Material: flourinated ethylene propylene (FEP)
Diameter: ∅2.3 ±0.15 mm (signal) , ∅1.8 ±0.10 mm (power)
Nominal thickness: 0.73 mm (signal), 0.29 mm (power)
Resistance at 20 °C: 2.5 MΩ /kft min

Shield
Type: tinned copper braid
Stranding: Ø0.10 mm, 65% minimum coverage

Wrap:
Material: aluminum foil (facing out)

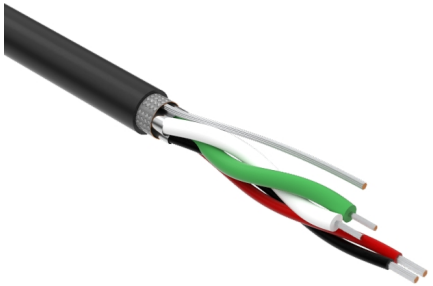
Drain
Stranding: ∅0.235 (x19)
Material: tinned copper strands

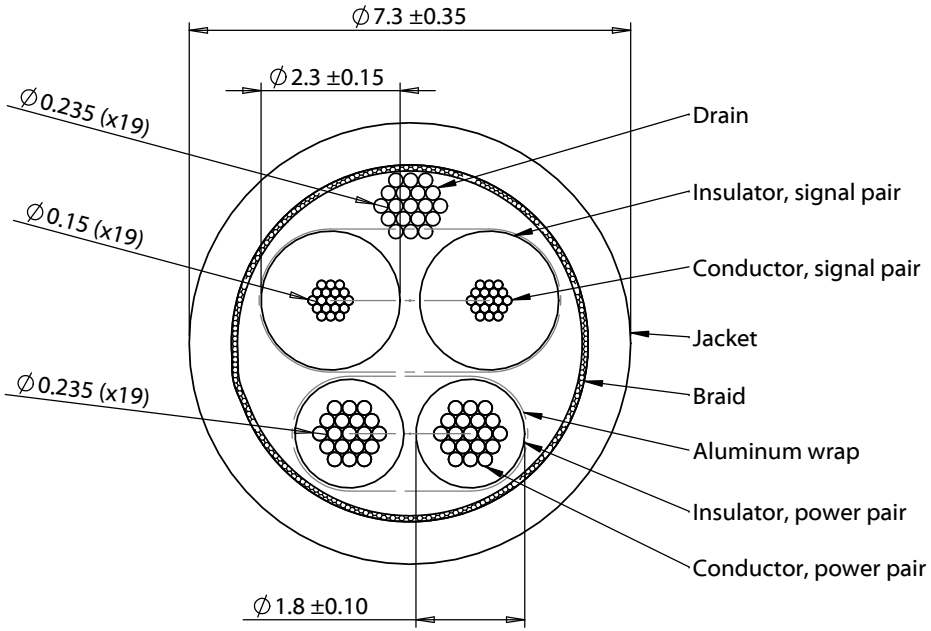
Outer jacket
Material: PVC, 90A
Color: black
Diameter: ∅7.3 ±0.35 mm
Nominal thickness: 0.50 mm

Jacket marking: E540825 UL STYLE CMP 75°C - - - cUL CMP 75°C TENSILITY

Mechanical tests
Tensile strength: 13.8 MPa (jacket)
Heat aging: Elongation 50% MIN; Tensile strength 75% MIN after aging at 100°C for 240 hrs
Cold bend: no deformation after aging at -20°C for 4 hours+
Bend radius: 87.6 mm (Static), 109.5 mm (dynamic)

Electrical tests
Dielectric: 1.5 kV for 1 min, no breakdown
Characteristic impedance: 100 ± 20 Ω (signal pair)





Revision:	Date:	Description:
A	03/24/2026	Initial release

Prepared: CR Digitally signed by CR Date: 2026.05.06 14:56:21 -07'00'

Verified: KM Digitally signed by KM Date: 2026.05.06 14:59:32 -07'00'

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

Notes:
RoHS compliant

Approved for use in plenums
FT6 flammability rating

Description:
Wire, 4C, TS, 1PR 18 AWG, 1PR 22 AWG, CMP, 300V, 75°C, 7.3 mm, shielded, PVC

TENSILITY
tel 1.541.323.3228 800 877.670.7118
fax 1.541.323.4202 web tensility.com

Size: A
Part number: 30-03831
Scale: 8:1
Sheet 1 of 1

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

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