

Ratings

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

Conductors (Signal 1PR, Power 1PR)

Gauge: 28 AWG 0.09 mm² (signal), 22 AWG 0.35 mm² (power)
 Conductor: tinned copper strands
 Signal: Ø 0.127 (x7)
 Power: Ø 0.16 (x19)
 Conductor resistance at 20 °C:
 239 Ω /km max (signal), 59.4 Ω /km max (power)

Insulation

Color: white/green (signal), red/black (power)
 Material: flourinated ethylene propylene (FEP)
 Diameter: Ø 1.15 ±0.10 mm (signal), Ø 1.4 ±0.10 mm (power)
 Nominal thickness: 0.36 mm (signal), 0.28 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 mylar foil (facing out)

Drain

Stranding: Ø0.16 (x19)
 Material: tinned copper strands

Outer jacket

Material: PVC, 90A
 Color: black
 Diameter: Ø 5.4 ±0.35 mm
 Nominal thickness: 0.50 mm

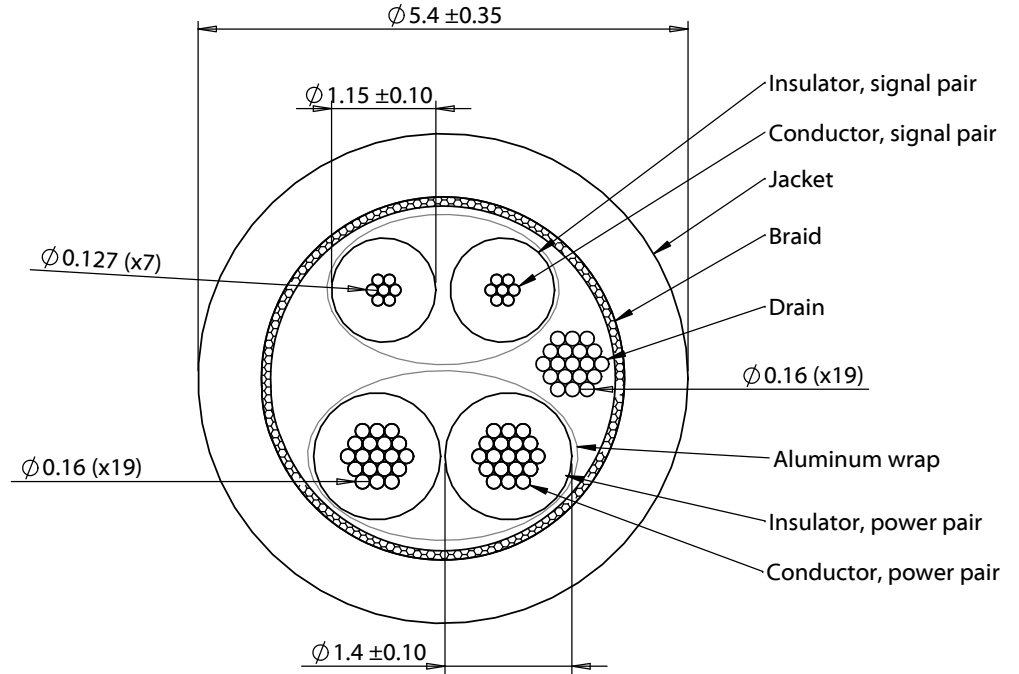
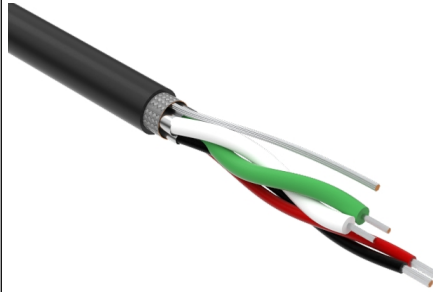
Jacket marking: E540825 UL STYLE CMP 75°C --- cUL CMP 75°C TENSILITY

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: 43 mm (Static), 65 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:
Verified:
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 22 AWG, 1PR 28 AWG, CMP, 300V, 75°C, 5.4 mm, shielded, PVC

TENSILITY

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Size: A	Part number: 30-03833
Scale: 12:1	

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