

Ratings

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

Conductors (Signal 1PR, Power 1PR)

Gauge: 20 AWG 0.51 mm² (signal), 18 AWG 0.82 mm² (power)
 Conductor: tinned copper strands
 Signal: $\varnothing 0.19$ (x19)
 Power: $\varnothing 0.235$ (x19)
 Conductor resistance at 20 °C:
 36.7 Ω /km max (signal), 23.2 Ω /km max (power)

Insulation

Color: white/green (signal), red/black (power)
 Material: flourinated ethylene propylene (FEP)
 Diameter: $\varnothing 2.9 \pm 0.15$ mm (signal), $\varnothing 1.8 \pm 0.10$ mm (power)
 Nominal thickness: 0.92 mm (signal), 0.29 mm (power)
 Resistance at 20 °C: 2.5 M Ω /kft min

Shield

Type: tinned copper braid
 Stranding: $\varnothing 0.10$ mm, 65% minimum coverage

Wrap:

Material: aluminum foil (facing out)

Drain

Stranding: $\varnothing 0.235$ (x19)
 Material: tinned copper strands

Outer jacket

Material: PVC, 90A
 Color: black
 Diameter: $\varnothing 8.1 \pm 0.35$ mm
 Nominal thickness: 0.60 mm

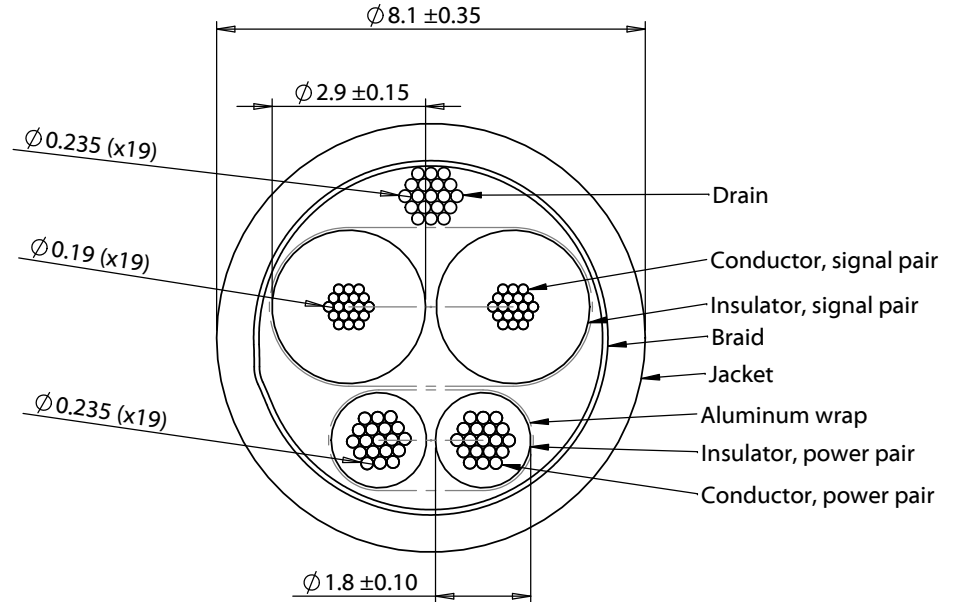
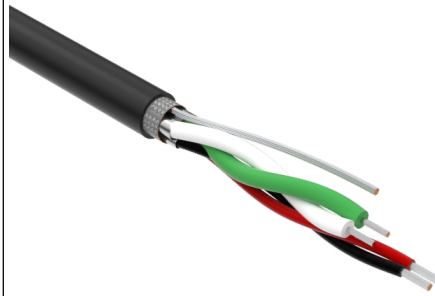
Jacket marking: E540825 UL STYLE CMP 75°C --- cUL CMP 75°C
 TENSILITY

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: 97 mm (Static), 121.5 mm (dynamic)

Electrical tests

Dielectric: 1.5 kV for 1 min, no breakdown
 Characteristic impedance: 100 \pm 20 Ω (signal pair)



Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p>
A	03/24/2026	Initial release	Verified:	RoHS compliant	
			Dimensions are in millimeters.	Approved for use in plenums FT6 flammability rating	
			Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Wire, 4C, TS, 1PR 18 AWG, 1PR 20 AWG, CMP, 300V, 75°C, 8.1 mm, shielded, PVC	
				Size: A	Part number: 30-03830
				Scale: 7:1	Sheet 1 of 1