

## 1804A Multi-Conductor - Four-Conductor Star Quad, Low-Impedance Cable

For more Information  
please call

1-800-Belden1

### General Description:

28 AWG stranded (19x40) high-conductivity silver-plated copper alloy conductors, polypropylene insulation, tinned copper braid shield (80% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
4	28	19x40	High Conductivity SPCA - Silver Plated Copper Alloy	.015

Total Number of Conductors: 4

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PP - Polypropylene	0.030

#### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	80.000

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Blue
2	White
3	Blue w/White Stripe
4	White w/Blue Stripe

Overall Nominal Diameter: 0.115 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +60°C

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 9 lbs/1000 ft.

Max. Recommended Pulling Tension: 24 lbs.

Min. Bend Radius/Minor Axis: 1.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU CE Mark: Yes

EU Directive 2002/95/EC (RoHS): No

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
40

Nom. Inductance:

Inductance (µH/ft)
.21

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
40

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**Nom. Cap. Between Cond. in a Quad Config.:**

**Capacitance (pF/ft)**  
60

**Nominal Velocity of Propagation:**

**VP (%)**  
66

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
65

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
15

**Max. Operating Voltage - UL:**

**Voltage**  
100 V RMS

**Max. Recommended Current:**

**Current**  
1.45 Amps per conductor @ 25°C

**Other Electrical Characteristic 1:** 2/c 25 AWG equivalent DCR when connected to a 3-pin XLR.

### Notes (Overall)

**Notes:** Quad connection scheme: The two blue wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the two white wires (or remaining wires) are connected together to form the second conductor.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1804A G8M500	500 FT	5.000 LB	YELLOW, MATTE	F	4 #28 STR PP SHLD PVC
1804A J5C100	100 FT	1.100 LB	BLACK, VIVID MATTE		4 #28 STR PP SHLD PVC
1804A J5C500	500 FT	5.000 LB	BLACK, VIVID MATTE	F	4 #28 STR PP SHLD PVC
1804A U4F500	500 FT	5.000 LB	BEIGE U4F	F	4 #28 STR PP SHLD PVC

**Notes:**

F = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 50'

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