

# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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



For more Information  
please call

1-800-Belden1

### Description:

28 AWG stranded (19x40) high-conductivity silver- plated copper alloy conductors, polypropylene insulation, tinned copper braid shield (78% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
4	28	19x40	High Conductivity SPCA - Silver Plated Copper Alloy	0.381

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)	Dia. (mm)
PP - Polypropylene	0.1524	0.762

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	78

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.3556

#### Overall Cabling

##### Overall Cabling Color Code Chart:

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

Overall Nominal Diameter: 2.921 mm

### Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 11.906 Kg/Km

Max. Recommended Pulling Tension: 106.757 N

Min. Bend Radius (Install)/Minor Axis: 12.700 mm

### 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)

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40

### Nom. Inductance:

Inductance ( $\mu$ H/m)
0.68901

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
131.24

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

Capacitance (pF/m)
196.86

### Nominal Velocity of Propagation:

VP (%)
66

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
213.265

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
49.215

### 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.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1804A G8M500	152 MT	2.041 KG	YELLOW, MATTE	F	4 #28 STR PP SHLD PVC
1804A J5C100	30 MT	0.454 KG	BLACK, VIVID MATTE		4 #28 STR PP SHLD PVC
1804A J5C500	152 MT	2.041 KG	BLACK, VIVID MATTE	F	4 #28 STR PP SHLD PVC
1804A U4F500	152 MT	2.041 KG	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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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.