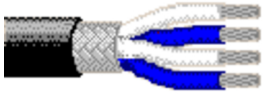


**Part Number:** 1804A



Microphone Cable, 4 Conductor 28 AWG, TC

## Product Description

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

## Technical Specifications

### Product Overview

|                      |                              |
|----------------------|------------------------------|
| Environmental Space: | Indoor (Not Riser or Plenum) |
|----------------------|------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material  | Nominal Diameter | No. of Conductors |
|-----|-----------|---|------------------|-------------------|
| 28  | 19x40     | High Conductivity SPCA - Silver Plated Copper Alloy | 0.015 in         | 4                 |

|                  |   |
|------------------|---|
| Conductor Count: | 4 |
|------------------|---|

#### Insulation

| Material           | Nominal Diameter | Nominal Wall Thickness |
|--------------------|------------------|------------------------|
| PP - Polypropylene | 0.03 in          | 0.008 in               |

#### Color Chart

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

#### Outer Shield Material

| Type  | Material           | Coverage [%] |
|-------|--------------------|--------------|
| Braid | TC - Tinned Copper | 80 %         |

#### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.115 in         | 0.014 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Outer Shield DCR |
|-----------------------|-----------------------|----------------------|--------------------------|
| 65 Ohm/1000ft         | 65 Ohm/1000ft         |                      | 15 Ohm/1000ft            |

#### Capacitance

| Nom. Capacitance Between Conductors in Quad | Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|---|
| 60 pF/ft                                    | 40 pF/ft                                | 60 pF/ft  |

#### Inductance

| Nominal Inductance |
|--------------------|
|--------------------|

0.21 µH/ft

#### Impedance

##### Nominal Characteristic Impedance

40 Ohm

#### Delay

##### Nominal Velocity of Propagation (VP) [%]

66 %

#### Current

##### Max. Recommended Current [A]

1.45 Amps per conductor @ 25°C

#### Voltage

##### UL Voltage Rating

100 V RMS

Electrical Characteristics Notes: 2/c 25 AWG equivalent DCR when connected to a 3-pin XLR.

#### Temperature Range

Non-UL Temp Rating: 60°C

Operating Temp Range: -30°C To +60°C

#### Mechanical Characteristics

Bulk Cable Weight: 9 lbs/1000ft

Max Recommended Pulling Tension: 24 lbs

Min Bend Radius/Minor Axis: 1.25 in

#### Applicable Environmental and Other Programs

EU Directive Compliance: No

EU CE Mark: Yes

#### Suitability

Suitability - Indoor: Yes

#### Flammability, LS0H, Toxicity Testing

UL voltage rating: 100 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N): No

#### Part Number

#### Variants

| Item #       | Color              | UPC          | Length | Footnote |
|--------------|--------------------|--------------|--------|----------|
| 1804A U4F500 | Beige U4F          | 612825123163 | 500 ft | F        |
| 1804A J5C100 | Black, Vivid Matte | 612825123149 | 100 ft |          |
| 1804A J5C500 | Black, Vivid Matte | 612825123156 | 500 ft | F        |
| 1804A G8M500 | Matte Yellow       | 612825123132 | 500 ft | F        |

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

#### Product Notes

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.

#### History

Update and Revision: Revision Number: 0.274 Revision Date: 08-22-2019

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