Part Number: 8404
Star Quad Microphone Cable, 4 Conductor 20 AWG TC

Product Description
Star quad Microphone Cable, 4 Conductor 20 AWG stranded (19x32) high-conductivity tinned copper conductors, polyethylene insulation, rayon braid, tinned copper braid shield (85% coverage), PVC jacket.

Technical Specifications

Product Overview
Environmental Space: Indoor (Not Riser or Plenum)

Physical Characteristics (Overall)

Conductor
<table>
<thead>
<tr>
<th>AWG</th>
<th>Stranding</th>
<th>Material</th>
<th>Nominal Diameter</th>
<th>No. of Conductors</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>19x32</td>
<td>High Conductivity TC - Tinned Copper</td>
<td>0.037 in</td>
<td>4</td>
</tr>
</tbody>
</table>

Conductor Count: 4
Conductor Size: 20 AWG

Insulation
<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Diameter</th>
<th>Nominal Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE - Polyethylene</td>
<td>0.069 in</td>
<td>0.016 in</td>
</tr>
</tbody>
</table>

Color Chart

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clear</td>
</tr>
<tr>
<td>2</td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>Red</td>
</tr>
<tr>
<td>4</td>
<td>Green</td>
</tr>
</tbody>
</table>

Outer Shield Material
<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Coverage [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Braid</td>
<td>TC - Tinned Copper</td>
<td>85 %</td>
</tr>
</tbody>
</table>

Outer Jacket Material
<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Diameter</th>
<th>Nominal Wall Thickness</th>
<th>Separator Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC - Polyvinyl Chloride</td>
<td>0.252 in</td>
<td>0.032 in</td>
<td>Rayon Braid</td>
</tr>
</tbody>
</table>

Electrical Characteristics

Conductor DCR
<table>
<thead>
<tr>
<th>Nominal Conductor DCR</th>
<th>Nominal Outer Shield DCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2 Ohm/1000ft</td>
<td>3.23 Ohm/1000ft</td>
</tr>
</tbody>
</table>

Capacitance
<table>
<thead>
<tr>
<th>Nom. Capacitance Between Conductors in Quad</th>
<th>Nom. Capacitance Conductor to Conductor</th>
</tr>
</thead>
<tbody>
<tr>
<td>49 pF/ft</td>
<td>23 pF/ft</td>
</tr>
</tbody>
</table>

Inductance
### Nominal Inductance
- 0.2 µH/ft

### Impedance
#### Nominal Characteristic Impedance
- 45 Ohm

### Delay
#### Nominal Velocity of Propagation (VP) [%]
- 66 %

### Current
#### Max. Recommended Current [A]
- Per conductor @ 25°C: 3.1 A

### Voltage
#### UL Voltage Rating
- UL AWM Style 2094: 300 V RMS
- Notes: 2/c 17 AWG equivalent DCR when connected to a 3-pin XLR.
- Other Electrical Characteristic 2: 49 pf/ft conductor to conductor capacitance when connected as a quad

### Temperature Range
- UL Temp Rating: 60°C (UL AWM Style 2094)
- Operating Temp Range: -20°C To +60°C

### Mechanical Characteristics
- Bulk Cable Weight: 46 lbs/1000ft
- Max Recommended Pulling Tension: 100 lbs
- Min Bend Radius/Minor Axis: 2.5 in

### Standards
- UL AWM Style: UL Style 2094 (300 V 60°C)
- EU Directive 2003/96/EC (BFR): Yes
- EU Directive 2011/65/EU (ROHS II): Yes
- EU Directive 2012/19/EU (WEEE): Yes
- EU Directive 2015/863/EU: Yes
- EU CE Mark: Yes
- EU RoHS Compliance Date (yyyy-mm-dd): 2004-01-01
- CA Prop 65 (CJ for Wire & Cable): Yes
- MII Order #39 (China RoHS): Yes

### Suitability
- Suitability - Indoor: Yes

### Flammability, LS0H, Toxicity Testing
- UL Flammability: VW-1
- UL voltage rating: 300 V RMS (UL AWM Style 2094)

### Plenum/Non-Plenum
- Plenum (Y/N): No
Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
<th>UPC</th>
<th>Length</th>
<th>Footnote</th>
</tr>
</thead>
<tbody>
<tr>
<td>8404 060100</td>
<td>Chrome</td>
<td>612825206187</td>
<td>100 ft</td>
<td></td>
</tr>
<tr>
<td>8404 0601000</td>
<td>Chrome</td>
<td>612825206194</td>
<td>1,000 ft</td>
<td>C</td>
</tr>
<tr>
<td>8404 060500</td>
<td>Chrome</td>
<td>612825206163</td>
<td>500 ft</td>
<td>C</td>
</tr>
<tr>
<td>8404 060U1000</td>
<td>Chrome</td>
<td>612825206200</td>
<td>1,000 ft</td>
<td></td>
</tr>
</tbody>
</table>

Footnote: C - CRATE REEL PUT-UP.

Product Notes

Notes: Overall cabling separator material: Rayon braid. 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.

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