

# Part Number: 8412

Microphone Cable, 2 Conductor 20 AWG TC

## Product Description

Microphone Cable, 2 Conductor 20 AWG stranded (26x34) high-conductivity TC conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, EPDM jacket.

## Technical Specifications

### Product Overview

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

### Physical Characteristics (Overall)

**Conductor**

| AWG | Stranding | Material | Nominal Diameter | No. of Conductors |
|---|---|---|---|---|
| 20 | 26x34 | High Conductivity TC - Tinned Copper | 0.037 in | 2 |

| | |
|---|---|
| Conductor Count: | 2 |
| Conductor Size: | 20 AWG |

**Insulation**

| Material | Nominal Diameter | Nominal Wall Thickness |
|---|---|---|
| EPDM - Ethylene Propylene Diene Monomer Rubber | 0.083 in | 0.023 in |

**Color Chart**

| Number | Color |
|---|---|
| 1 | White |
| 2 | Black |

**Outer Shield Material**

| Type | Layer | Material | Coverage [%] |
|---|---|---|---|
| Braid | 1 | Cotton | |
| Braid | 2 | TC - Tinned Copper | 85 % |

| | |
|---|---|
| Note: | Cotton Wrap |

**Outer Jacket Material**

| Material | Nominal Diameter | Nominal Wall Thickness | Separator Material |
|---|---|---|---|
| EPDM - Ethylene Propylene Diene Monomer Rubber | 0.262 in | 0.035 in | Rayon Braid |

### Electrical Characteristics

**Conductor DCR**

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|---|---|
| 10.6 Ohm/1000ft | 4.5 Ohm/1000ft |

**Capacitance**

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 33 pF/ft | 58 pF/ft |

**Inductance**

| Nominal Inductance |
| --- |
| 0.18 µH/ft |

**Impedance**

| Nominal Characteristic Impedance |
| --- |
| 67 Ohm |

**Current**

| Max. Recommended Current [A] |
| --- |
| 4 Amps per conductor @ 25°C |

**Voltage**

| Non-UL Voltage Rating |
| --- |
| 600 V RMS |

## Temperature Range

| | |
| --- | --- |
| Non-UL Temp Rating: | 90°C |
| Operating Temp Range: | -50°C To +90°C |

## Mechanical Characteristics

| | |
| --- | --- |
| Bulk Cable Weight: | 44 lbs/1000ft |
| Max Recommended Pulling Tension: | 100 lbs |
| Min Bend Radius/Minor Axis: | 2.75 in |

## Applicable Environmental and Other Programs

| | |
| --- | --- |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| 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 - Aerial: | No |
| Suitability - Burial: | No |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | No |
| Suitability - Sunlight Resistance: | No |

## Plenum/Non-Plenum

| | |
| --- | --- |
| Plenum (Y/N): | No |
| Plenum Number: | 8412P |

## Part Number

**Variants**

| Item # | Color | Footnote |
| --- | --- | --- |
| 8412 010100 | Black | |
| 8412 0101000 | Black | C |
| 8412 010250 | Black | |
| 8412 010500 | Black | C |
| 8412 010U1000 | Black | |
| 8412 010U500 | Black | |
| 8412 0061000 | Blue, Light | C |
| 8412 0021000 | Red | C |
| 8412 0041000 | Yellow | C |

| | |
|---|---|
| Footnote: | C - CRATE REEL PUT-UP. |

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