

# Product: 8412

Microphone Cable, 2 C #20 Str TC, Rayon & 85% TC Braid, Cotton Serve, EPDM Jkt

## Product Description

Microphone Cable, 2 Conductor 20 AWG (26 x 34) Tinned Copper (High conductivity), EPDM Insulation, Rayon® Braid, 85% Tinned Copper Braid Shield, Cotton Serve, EPDM Jacket

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | Ruggedized, deployable microphone for studio or live performance; Balanced analog audio |

### Construction Details

**Conductor**

| Element | Number of Element | Size | Stranding | Material |
|---|---|---|---|---|
| Conductor(s) | 2 | 20 AWG | 26x34 | TC - Tinned Copper (High Conductivity) |

**Insulation**

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---|---|---|---|---|
| Conductor(s) | EPDM - Ethylene Propylene Diene Monomer | 0.023 in (0.58 mm) | 0.083 in (2.1 mm) | White, Black |

**Outer Shield**

| Shield Type | Material | Coverage |
|---|---|---|
| Braid | Rayon® | 85% |
| Braid | Tinned Copper (TC) | 85% |

**Outer Jacket**

| Separator | Material | Nom. Thickness | Nom. Diameter |
|---|---|---|---|
| Cotton Serve | EPDM - Ethylene Propylene Diene Monomer | 0.035 in (0.89 mm) | 0.262 in (6.65 mm) |

| | |
|---|---|
| Overall Cable Diameter (Nominal): | 0.262 in (6.65 mm) |

### Electrical Characteristics

**Electricals**

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Max. Current |
|---|---|---|---|---|---|
| Conductor(s) | 10.6 Ohm/1000ft (34.8 Ohm/km) | 33 pF/ft (110 pF/m) | 58 pF/ft (190 pF/m) | 67 Ohm | 4 Amps per conductor @ 25°C |

**Voltage**

| Voltage Rating |
|---|
| 600 V |

### Mechanical Characteristics

**Temperature**

| Operating |
|---|
| -50°C to +90°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|

| | |
|---|---|
| 3.1 in (79 mm) | 3.1 in (79 mm) |

| | |
|---|---|
| Max. Pull Tension: | 100 lbs (45 kg) |
| Bulk Cable Weight: | 44 lbs/1000ft (65 kg/km) |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor (Not Riser or Plenum), Indoor |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Plenum Number: | 8412P |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.373 Revision Date: 07-29-2022 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC |
|---|---|---|---|---|
| 8412 010100 | Black | Reel | 100 ft | 612825206361 |
| 8412 010250 | Black | Reel | 250 ft | 612825206385 |
| 8412 010500 | Black | Reel | 500 ft | 612825206330 |
| 8412 010U500 | Black | UnReel | 500 ft | 612825396987 |
| 8412 0101000 | Black | Reel | 1,000 ft | 612825206378 |
| 8412 010U1000 | Black | UnReel | 1,000 ft | 612825206347 |
| 8412 0061000 | Blue, Light | Reel | 1,000 ft | 612825206354 |
| 8412 0021000 | Red | Reel | 1,000 ft | 612825206316 |
| 8412 0041000 | Yellow | Reel | 1,000 ft | 612825206323 |

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