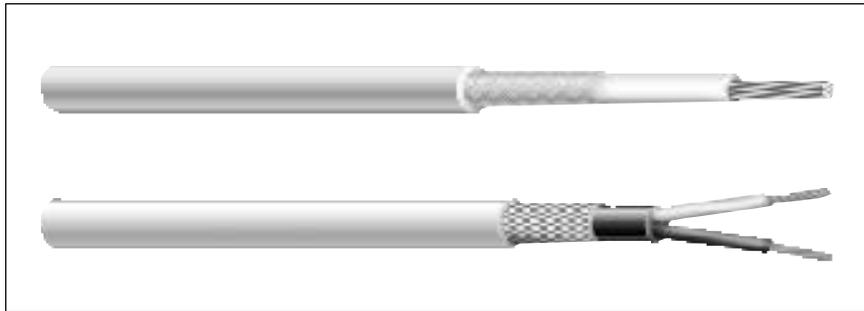


# Microphone Cable

6

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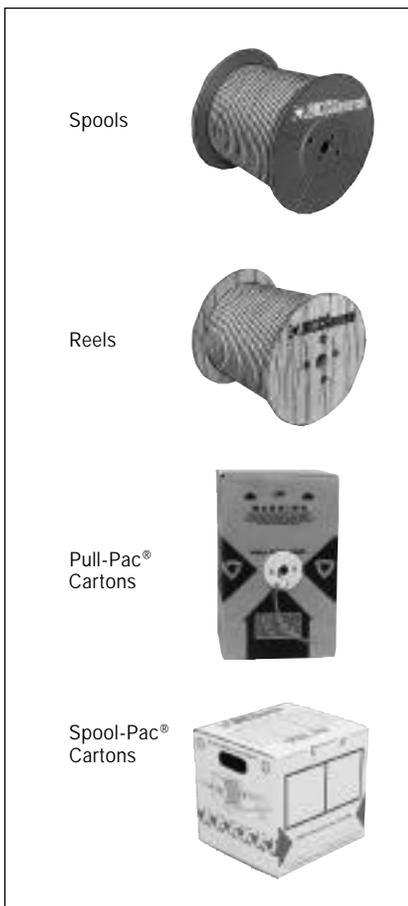


BICCGeneral's Carol® Brand microphone cables represent a specialized area of wire and cable. Professional and home entertainment audio/video equipment demands cable of superior performance in the audio frequency range, coupled with a high degree of flexibility, low noise generation and excellent service life under severe operating conditions. Typical applications include designs for both high and low impedance microphones, musical instruments as well as video and audio recorders or highly shielded power supply units.

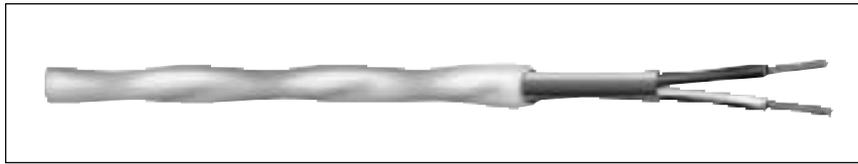
BICCGeneral offers a selection of cable, insulated and jacketed with thermoplastic materials, for applications that demand lower electrical losses, smaller dimensions, lower capacitance or lighter weights.

For extreme hard service, BICCGeneral's rubber microphone cables offer the ultimate in performance and service life. The rubber designs are highly flexible and designed to lie flat on studio floors as well as provide high impact and abrasion resistance.

For outdoor and cold weather applications, microphone cable jacketed with Carolprene® provides the ultimate protection against ozone, oil and ultraviolet radiation.



# Multi-Conductor, Spiral Shield



| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS |      | NOM. JACKET THICKNESS |      | NOMINAL O.D. |      | NOMINAL CAP.* |      |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|---------------|------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   | A             | B    |
| <b>C1226</b>   | 2            | 24       | 105/44        | 0.012                     | 0.30 | 0.031                 | 0.79 | 0.176        | 4.47 | 40.0          | 72.0 |

\*A - Capacitance between conductors

\*B - Capacitance between one conductor and other conductor connected to shield

### Color Code Chart

| NO. OF CONDUCTORS | COLOR |
|-------------------|-------|
| 1                 | White |
| 2                 | Green |

### Product Construction:

#### Conductor:

- 24 AWG annealed stranded bare copper per ASTM B-3

#### Insulation:

- Premium grade color coded polyethylene
- Color Code: see chart below

#### Shield:

- 85% spiral tinned copper

#### Jacket:

- PVC, black
- Temperature range: -20°C to +75°C

### Applications:

- Electronic circuits where RF shielding is required
- Radio transmitters
- Sound systems
- Recording studios
- Suggested voltage rating: 300 volts

### Features:

- Spiral shield provides extra flexibility
- Excellent shielding to reduce noise

### Packaging:

- 1000' (305 m) Spools
- 500' (152 m) Spools
- Other put-ups available—consult Customer Service

# Multi-Conductor, Flexfoil® Shield

**Product Construction:**

**Conductor:**

- 24 AWG fully annealed stranded tinned copper per ASTM B-33

**Insulation:**

- Premium grade color coded polypropylene
- Color Code: see chart below

**Shield:**

- Conductive tape applied over the core
- 100% Flexfoil® aluminum/polyester, 25% overlap, minimum, foil facing in
- Stranded tinned copper drain wire

**Jacket:**

- PVC, black
- Temperature range: -20°C to +80°C

**Applications:**

- Electronic circuits where RF shielding is required
- Radio transmitters
- Sound systems
- Recording studios
- Suggested voltage rating: 300 volts

**Features:**

- Excellent shielding to reduce noise

**Packaging:**

- 1000' (305 m) Spools
- 500' (152 m) Spools
- Other put-ups available—consult Customer Service



| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS |      | NOM. JACKET THICKNESS |      | NOMINAL O.D. |      | NOMINAL CAP.* |      |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|---------------|------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   | A             | B    |
| <b>C1228</b>   | 2            | 24       | 19/36         | 0.008                     | 0.20 | 0.020                 | 0.51 | 0.135        | 3.43 | 30.0          | 54.0 |

\*A - Capacitance between conductors

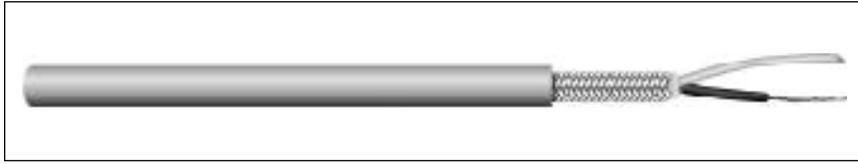
\*B - Capacitance between one conductor and other conductor connected to shield

**Color Code Chart**

| NO. OF CONDUCTORS | COLOR |
|-------------------|-------|
| 1                 | Black |
| 2                 | Red   |

# Multi-Conductor, Braid Shield

## Low Impedance



| CATALOG NUMBER | TYPE       | NO. OF COND. | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS |      | NOM. JACKET THICKNESS |      | NOMINAL O.D. |      | NOM. CAP.* pF/ft |
|----------------|------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|------------------|
|                |            |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   |                  |
| C1322          | Low Imped. | 2            | 22       | 16/34         | 0.025                     | 0.64 | 0.025                 | 0.64 | 0.235        | 5.97 | 31.0             |

\* Capacitance between one conductor and other conductor connected to shield

### Color Code Chart

| NO. OF CONDUCTORS | COLOR |
|-------------------|-------|
| 1                 | White |
| 2                 | Black |

### Product Construction:

#### Conductor:

- 22 AWG fully annealed stranded tinned copper per ASTM B-33

#### Insulation:

- Premium grade color coded polyethylene
- Fillers where required
- Color code: See chart below

#### Shield:

- 80% tinned copper braid

#### Jacket:

- PVC, gray
- Temperature range: -20°C to +60°C

### Applications:

- Low impedance microphones
- Suggested voltage rating: 1000 volts

### Features:

- Flexlife® jacket provides extreme flexibility
- High abrasion resistance
- Outstanding appearance

### Packaging:

- 1000' (305 m) Spools
- 500' (152 m) Spools
- Other put-ups available—consult Customer Service

# Multi-Conductor, Rubber, Braid Shield

## High & Low Impedance

**Product Construction:**

**Conductor:**

- 18 and 20 AWG fully annealed stranded tinned copper per ASTM B-33

**Insulation:**

- Premium grade color coded rubber insulation
- Color Code: See chart below

**Shield:**

- Clear mylar wrap
- 80% tinned copper braid
- Cotton wrap

**Jacket:**

- Rubber, black
- Temperature range: -20°C to +60°C



| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS |      | NOM. JACKET THICKNESS |      | NOMINAL O.D. |      | NOMINAL CAP.* pF/ft |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|---------------------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   |                     |
| <b>C1300</b>   | 1            | 20       | 26/34         | 0.040                     | 1.02 | 0.035                 | 0.89 | 0.230        | 5.84 | 42.0                |
| <b>C1301</b>   | 1            | 18       | 41/34         | 0.040                     | 1.02 | 0.035                 | 0.89 | 0.240        | 6.10 | 46.0                |
| <b>C1302</b>   | 2            | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.270        | 6.86 | 50.0                |

\* Capacitance between one conductor and other conductor connected to shield

**Applications:**

**C1300, C1301:**

- High impedance microphones
- Broadcast and studio use
- Communication and audio system
- Shielded power supplies
- Suggested voltage rating: 300 volts

**C1302:**

- Low impedance microphones
- Studio use
- Control circuits
- Video and audio interconnecting cables
- Shielded power supplies
- Suggested voltage rating: 300 volts

**Features:**

- Precision engineered to transmit clear, noise-free signals
- Minimizes electrical "hum"
- Braid shield provides extra flexibility

**Packaging:**

- 1000' (305 m) Spools
- 500' (152 m) Spools
- Other put-ups available—consult Customer Service

**Color Code Chart**

| NO. OF CONDUCTORS | COLOR |
|-------------------|-------|
| 1                 | White |
| 2                 | Black |

# Multi-Conductor, Carolprene® , Braid Shield

## High & Low Impedance



| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS |      | NOM. JACKET THICKNESS |      | NOMINAL O.D. |      | NOMINAL CAP.* pF/ft |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|---------------------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   |                     |
| C1201          | 1            | 18       | 41/34         | 0.040                     | 1.02 | 0.035                 | 0.89 | 0.240        | 6.10 | 46.0                |
| C1202          | 2            | 18       | 41/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.295        | 7.49 | 61.0                |
| C1602          | 2            | 16       | 65/34         | 0.025                     | 0.64 | 0.035                 | 0.89 | 0.335        | 8.51 | 55.0                |

\* Capacitance between one conductor and other conductor connected to shield

### Color Code Chart

| NO. OF CONDUCTORS | COLOR |
|-------------------|-------|
| 1                 | White |
| 2                 | Black |

### Product Construction:

#### Conductor:

- 18 and 16 AWG fully annealed stranded tinned copper per ASTM B-33

#### Insulation:

- Premium grade color coded rubber
- Color Code: See chart below

#### Shield:

- Clear mylar wrap
- 80% braid tinned copper
- Cotton wrap

#### Jacket:

- Carolprene®, black
- Temperature range: -20°C to +60°C

### Applications:

#### C1201:

- High impedance microphones
- Broadcast and studio use
- Communication and audio systems
- Suggested voltage rating: 300 volts

#### C1202, C1602:

- Low impedance microphones
- Studio use
- Control circuits
- Video and interconnecting cables
- Shielded power supplies
- Suggested voltage rating: 300 volts

### Features:

- Precision engineered to transmit clear, noise-free signals
- Minimizes electrical "hum"
- Resistant to oil, acid, sunlight, abrasion and aging
- Excellent noise rejection

### Packaging:

- 1000' (305 m) Spools
- 500' (152 m) Spools
- Other put-ups available—consult Customer Service