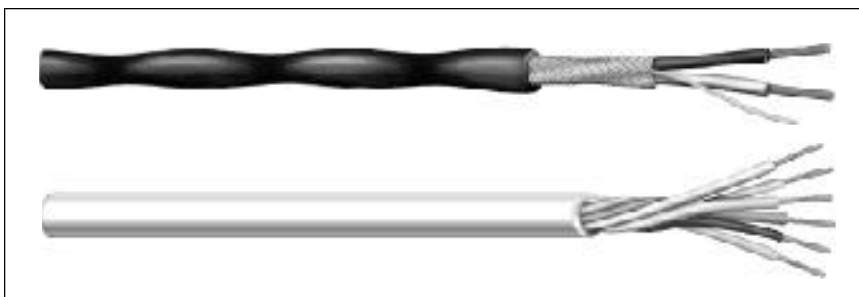


# Communication & Control Cable, Multi-Conductor

2

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The multi-conductor array of communication and control cable facilitates cable pull-ins and single-site installations.

This cable is typically used for industrial equipment control, electric valve actuation and remote signaling, as well as communications and broadcast applications. These designs are available in a wide variety of insulation and jacketing materials, as well as shield designs to alleviate unwanted circuit noise.

BICCGeneral's Carol® Brand products are manufactured to meet the latest UL, CSA, and NEC requirements and approvals.

## A Design To Meet Every Application

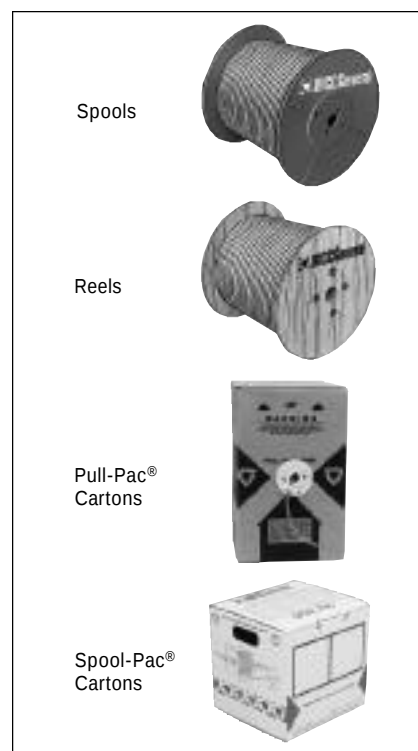
**PVC/PVC** designs employ polyvinyl chloride insulations and jackets capable of meeting everyday, general purpose applications.

**PE or PP/PVC** designs employ high quality polyethylene or polypropylene insulations to assure faithful reproduction of transmitted signals across interconnection circuits.

**Foamed PP/PVC** designs use high speed, foamed polypropylene insulations for long distance, critical circuits, which would not perform if higher loss insulations were employed.

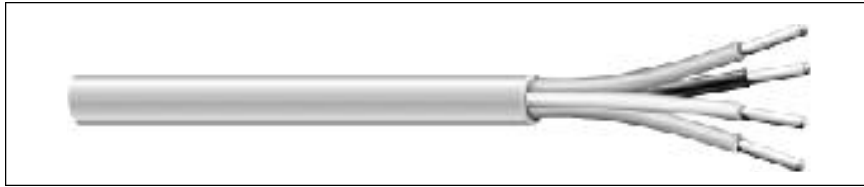
**Rubber/Rubber** is typically employed in installations characterized as severely hostile environments, where these designs provide unsurpassed service life.

**Rubber/Carolprene®** offers the ultimate performance for applications that demand the greatest protection from the environment, including physical abuse. The specially formulated Carolprene® jacket has been proven time and again to withstand all types of abuse, both mechanical and chemical.



# Multi-Conductor, Unshielded

UL 2464, NEC Type CM (UL) c(UL), CSA CMG



| CATALOG<br>NUMBER | NO. OF<br>COND. | AWG<br>SIZE | COND.<br>STRAND. | NOM. INSULATION<br>THICKNESS |      | NOM. JACKET<br>THICKNESS |      | NOMINAL O.D. |      | COLOR<br>CODE           | NOM.<br>C-C<br>CAP.*<br>pF/ft |
|-------------------|-----------------|-------------|------------------|------------------------------|------|--------------------------|------|--------------|------|-------------------------|-------------------------------|
|                   |                 |             |                  | INCHES                       | mm   | INCHES                   | mm   | INCHES       | mm   |                         |                               |
| <b>C4008</b>      | 2               | 22          | Solid            | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.155        | 3.93 | Black/<br>Red           | 25.0                          |
| <b>C4310</b>      | 3               | 22          | Solid            | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.161        | 4.09 | Black/<br>Red/<br>White | 25.0                          |
| <b>C4311</b>      | 2               | 20          | Solid            | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.168        | 4.27 | Black/<br>Red           | 28.0                          |
| <b>C2754</b>      | 2               | 19          | Solid            | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.176        | 4.47 | Brown/<br>Tan           | 29.5                          |
| <b>C2755</b>      | 3               | 19          | Solid            | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.184        | 4.67 | Brown/<br>Gray/<br>Tan  | 29.5                          |

\*Capacitance between conductors

## Product Construction:

### Conductor:

- Fully annealed tinned copper per ASTM B-33
- Fully annealed solid bare copper to ASTM B-3, (C2754, C2755)

### Insulation:

- Premium grade color coded S-R PVC per UL 1061

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

- Public address systems
- Intercoms
- Remote control circuits
- Suggested voltage rating: 300 volts

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2464 (UL: 80°C 300V)
- CSA CMG (CSA: 60°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

## Packaging:

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

**CAROL  
BRAND**



Recognized to Meet  
UL 94V-1 Vertical  
Wire Flame Test  
Underwriters Laboratories Inc.



CMG  
Certified  
Canadian Standard Association

**BICCGeneral**

# Multi-Conductor, Unshielded

UL 2464, NEC Type CM (UL) c(UL), CSA CMG

## Product Construction:

### Conductor:

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

### Insulation:

- Premium grade color coded S-R PVC per UL 1061
- Color Code: See charts below

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

- Public address systems
- Intercoms
- Internal telephones
- Remote control circuits
- Suitable for EIA RS-232 applications
- Suggested voltage rating: 300 volts

## Features:

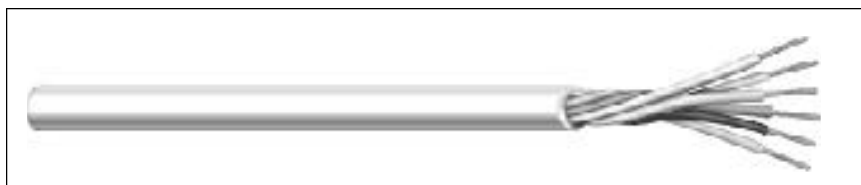
- Easy to terminate
- Excellent electrical properties
- Tinned conductors provide excellent corrosion resistance
- Assists soldering applications

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2464 (UL: 80°C, 300V)
- CSA CMG (CSA: 60°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

## Packaging:

- 1000' (305 m) Spools or Reels
- 500' (152 m) Spools or Reels
- 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. |      | COLOR CODE      | NOM. C-C CAP.* pF/ft |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|-----------------|----------------------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   |                 |                      |
| <b>C2461</b>   | 2            | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.156        | 3.96 | Black/Red       | 23.0                 |
| <b>C2462</b>   | 3            | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.163        | 4.14 | Black/Red/Green | 23.0                 |
| <b>C2463</b>   | 4            | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.174        | 4.42 | 1               | 23.0                 |
| <b>C2464</b>   | 5            | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.187        | 4.75 | 1               | 23.0                 |
| <b>C2466</b>   | 6            | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.200        | 5.08 | 1               | 23.0                 |
| <b>C2488</b>   | 7            | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.200        | 5.08 | 1               | 23.0                 |
| <b>C2465</b>   | 8            | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.214        | 5.44 | 1               | 23.0                 |
| <b>C2470</b>   | 9            | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.227        | 5.77 | 1               | 23.0                 |
| <b>C2471</b>   | 10           | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.244        | 6.20 | 1               | 23.0                 |
| <b>C2467</b>   | 12           | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.251        | 6.38 | 1               | 23.0                 |
| <b>C2473</b>   | 15           | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.275        | 6.99 | 2               | 23.0                 |
| <b>C2475</b>   | 20           | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.302        | 7.67 | 2               | 23.0                 |
| <b>C2476</b>   | 25           | 24       | 7/32          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.332        | 8.43 | 2               | 23.0                 |

\* Capacitance between conductors

## Color Code Chart 1 - For cables up to and including 12 conductors

| NO. OF COND. | COLOR | NO. OF COND. | COLOR  |
|--------------|-------|--------------|--------|
| <b>1</b>     | Black | <b>7</b>     | Orange |
| <b>2</b>     | White | <b>8</b>     | Yellow |
| <b>3</b>     | Red   | <b>9</b>     | Violet |
| <b>4</b>     | Green | <b>10</b>    | Gray   |
| <b>5</b>     | Brown | <b>11</b>    | Pink   |
| <b>6</b>     | Blue  | <b>12</b>    | Tan    |

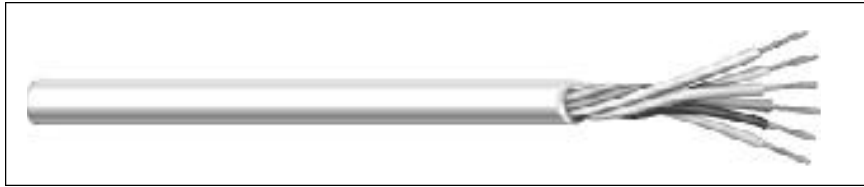
## Color Code Chart 2 Per ICEA - For cables of 15 thru 25 conductors

| NO. OF COND. | COLOR       | NO. OF COND. | COLOR        | NO. OF COND. | COLOR             |
|--------------|-------------|--------------|--------------|--------------|-------------------|
| <b>1</b>     | Black       | <b>10</b>    | Orange/Black | <b>19</b>    | Blue/Red          |
| <b>2</b>     | White       | <b>11</b>    | Blue/Black   | <b>20</b>    | Red/Green         |
| <b>3</b>     | Red         | <b>12</b>    | Black/White  | <b>21</b>    | Orange/Green      |
| <b>4</b>     | Green       | <b>13</b>    | Red/White    | <b>22</b>    | Black/White/Red   |
| <b>5</b>     | Orange      | <b>14</b>    | Green/White  | <b>23</b>    | White/Black/Red   |
| <b>6</b>     | Blue        | <b>15</b>    | Blue/White   | <b>24</b>    | Red/Black/White   |
| <b>7</b>     | White/Black | <b>16</b>    | Black/Red    | <b>25</b>    | Green/Black/White |
| <b>8</b>     | Red/Black   | <b>17</b>    | White/Red    |              |                   |
| <b>9</b>     | Green/Black | <b>18</b>    | Orange/Red   |              |                   |



# Multi-Conductor, Unshielded

UL 2464, NEC Type CM (UL) c(UL), CSA CMG



| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS |      | NOM. JACKET THICKNESS |      | NOMINAL O.D. |       | COLOR CODE      | NOM. C-C CAP.* pF/ft |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|-------|-----------------|----------------------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm    |                 |                      |
| <b>C6348†</b>  | 2            | 22       | 7/30          | 0.010                     | 0.25 | 0.015                 | 0.38 | 0.130        | 3.30  | Black/Red       | 25.5                 |
| <b>C4062</b>   | 3            | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.176        | 4.47  | Black/Red/Green | 25.5                 |
| <b>C4063</b>   | 4            | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.189        | 4.80  | 1               | 25.5                 |
| <b>C4064</b>   | 5            | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.203        | 5.16  | 1               | 25.5                 |
| <b>C4066</b>   | 6            | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.218        | 5.54  | 1               | 25.5                 |
| <b>C4088</b>   | 7            | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.218        | 5.54  | 1               | 25.5                 |
| <b>C4065</b>   | 8            | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.234        | 5.94  | 1               | 25.5                 |
| <b>C4070</b>   | 9            | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.249        | 6.32  | 1               | 25.5                 |
| <b>C4071</b>   | 10           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.268        | 6.81  | 1               | 25.5                 |
| <b>C4067</b>   | 12           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.276        | 7.01  | 1               | 25.5                 |
| <b>C4073</b>   | 15           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.303        | 7.70  | 2               | 25.5                 |
| <b>C4069</b>   | 18           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.318        | 8.08  | 2               | 25.5                 |
| <b>C4075</b>   | 20           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.334        | 8.48  | 2               | 25.5                 |
| <b>C4076</b>   | 25           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.368        | 9.35  | 2               | 25.5                 |
| <b>C4077</b>   | 30           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.389        | 9.88  | 2               | 25.5                 |
| <b>C4078</b>   | 40           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.434        | 11.02 | 2               | 25.5                 |
| <b>C4079</b>   | 50           | 22       | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.489        | 12.42 | 2               | 25.5                 |

\* Capacitance between conductors

† CM-CSA CMG Only

## Color Code Chart 1 - For cables up to and including 12 conductors

| NO. OF COND. | COLOR | NO. OF COND. | COLOR  |
|--------------|-------|--------------|--------|
| 1            | Black | 7            | Orange |
| 2            | White | 8            | Yellow |
| 3            | Red   | 9            | Violet |
| 4            | Green | 10           | Gray   |
| 5            | Brown | 11           | Pink   |
| 6            | Blue  | 12           | Tan    |

## Color Code Chart 2 Per ICEA - For cables of 15 thru 50 conductors

| NO. OF COND. | COLOR        | NO. OF COND. | COLOR              | NO. OF COND. | COLOR             |
|--------------|--------------|--------------|--------------------|--------------|-------------------|
| 1            | Black        | 18           | Orange/Red         | 35           | White/Red/Orange  |
| 2            | White        | 19           | Blue/Red           | 36           | Orange/White/Blue |
| 3            | Red          | 20           | Red/Green          | 37           | White/Red/Blue    |
| 4            | Green        | 21           | Orange/Green       | 38           | Black/White/Green |
| 5            | Orange       | 22           | Black/White/Red    | 39           | White/Black/Green |
| 6            | Blue         | 23           | White/Black/Red    | 40           | Red/White/Green   |
| 7            | White/Black  | 24           | Red/Black/White    | 41           | Green/White/Blue  |
| 8            | Red/Black    | 25           | Green/Black/White  | 42           | Orange/Red/Green  |
| 9            | Green/Black  | 26           | Orange/Black/White | 43           | Blue/Red/Green    |
| 10           | Orange/Black | 27           | Blue/Black/White   | 44           | Black/White/Blue  |
| 11           | Blue/Black   | 28           | Black/Red/Green    | 45           | White/Black/Blue  |
| 12           | Black/White  | 29           | White/Red/Green    | 46           | Red/White/Blue    |
| 13           | Red/White    | 30           | Red/Black/Green    | 47           | Green/Orange/Red  |
| 14           | Green/White  | 31           | Green/Black/Orange | 48           | Orange/Red/Blue   |
| 15           | Blue/White   | 32           | Orange/Black/Green | 49           | Blue/Red/Orange   |
| 16           | Black/Red    | 33           | Blue/White/Orange  | 50           | Black/Orange/Red  |
| 17           | White/Red    | 34           | Black/White/Orange |              |                   |

## Product Construction:

### Conductor:

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

### Insulation:

- Premium grade color coded S-R PVC per UL 1061
- Color Code: See charts below

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

- Public address systems
- Intercoms
- Internal telephones
- Remote control circuits
- Suitable for EIA RS-232 applications
- Suggested voltage rating: 300 volts

## Features:

- Easy to terminate
- Excellent electrical properties
- Tinned conductors provide excellent corrosion resistance
- Assists soldering applications

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2464 (UL: 80°C, 300V)
- CSA CMG (CSA 80°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

## Packaging:

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

**CAROL BRAND**



CMG Certified  
Canadian Standard Association



# Multi-Conductor, Unshielded

UL 2464, NEC Type CM (UL) c(UL), CSA CMG

## Product Construction:

### Conductor:

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

### Insulation:

- Premium grade color coded PVC per UL 1007
- Color Code: See charts below

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

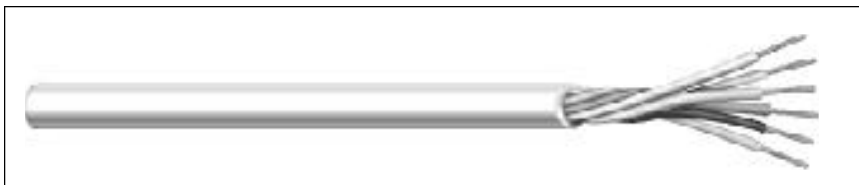
- Public address systems
- Intercoms
- Internal telephones
- Remote control circuits
- Suitable for EIA RS-232 applications
- Suggested voltage rating: 300 volts

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2464 (UL: 80°C, 300V)
- CSA CMG (CSA: 60°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

## Packaging:

- 1000' (305 m) Spools or Reels
- 500' (152 m) Spools or Reels
- 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. |       | COLOR CODE | NOM. C-C CAP.* pF/ft |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|-------|------------|----------------------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm    |            |                      |
| <b>C6351†</b>  | 2            | 20       | 7/28          | 0.016                     | 0.41 | 0.025                 | 0.64 | 0.192        | 4.88  | Black/Red  | 26.0                 |
| <b>C6352</b>   | 3            | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.216        | 5.50  | 1          | 26.0                 |
| <b>C6353</b>   | 4            | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.235        | 5.97  | 1          | 26.0                 |
| <b>C6355</b>   | 5            | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.254        | 6.46  | 1          | 26.0                 |
| <b>C6356</b>   | 7            | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.275        | 6.99  | 1          | 26.0                 |
| <b>C6357</b>   | 9            | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.317        | 8.05  | 1          | 26.0                 |
| <b>C6360</b>   | 12           | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.354        | 9.00  | 2          | 26.0                 |
| <b>C6358</b>   | 15           | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.392        | 9.96  | 2          | 26.0                 |
| <b>C2830†</b>  | 2            | 18       | 16/30         | 0.016                     | 0.41 | 0.025                 | 0.64 | 0.210        | 5.33  | Black/Red  | 28.0                 |
| <b>C2831</b>   | 3            | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.236        | 5.99  | 1          | 28.0                 |
| <b>C2404</b>   | 4            | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.258        | 6.55  | 1          | 28.0                 |
| <b>C2420</b>   | 5            | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.280        | 7.11  | 1          | 28.0                 |
| <b>C2421</b>   | 7            | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.309        | 7.85  | 1          | 28.0                 |
| <b>C2422</b>   | 9            | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.358        | 9.09  | 1          | 28.0                 |
| <b>C2412</b>   | 12           | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.401        | 10.19 | 2          | 28.0                 |
| <b>C2423</b>   | 15           | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.445        | 11.30 | 2          | 28.0                 |
| <b>C2424</b>   | 19           | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.469        | 11.91 | 2          | 28.0                 |
| <b>C2433</b>   | 25           | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.549        | 13.94 | 2          | 28.0                 |

\* Capacitance between conductors

† CM (UL) c(UL), CSA CMG Only

## Color Code Chart 1 - For cables up to and including 9 conductors

| NO. OF COND. | COLOR | NO. OF COND. | COLOR  |
|--------------|-------|--------------|--------|
| 1            | Black | 6            | Blue   |
| 2            | White | 7            | Orange |
| 3            | Red   | 8            | Yellow |
| 4            | Green | 9            | Violet |
| 5            | Brown |              |        |

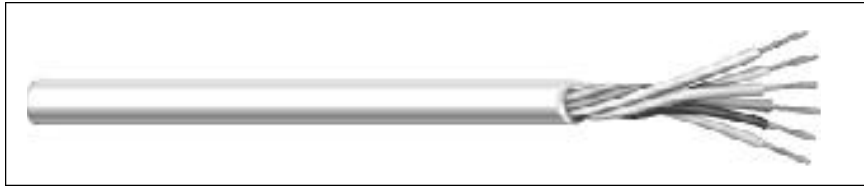
## Color Code Chart 2 Per ICEA - For cables of 12 thru 25 conductors

| NO. OF COND. | COLOR       | NO. OF COND. | COLOR        | NO. OF COND. | COLOR             |
|--------------|-------------|--------------|--------------|--------------|-------------------|
| 1            | Black       | 10           | Orange/Black | 19           | Blue/Red          |
| 2            | White       | 11           | Blue/Black   | 20           | Red/Green         |
| 3            | Red         | 12           | Black/White  | 21           | Orange/Green      |
| 4            | Green       | 13           | Red/White    | 22           | Black/White/Red   |
| 5            | Orange      | 14           | Green/White  | 23           | White/Black/Red   |
| 6            | Blue        | 15           | Blue/White   | 24           | Red/Black/White   |
| 7            | White/Black | 16           | Black/Red    | 25           | Green/Black/White |
| 8            | Red/Black   | 17           | White/Red    |              |                   |
| 9            | Green/Black | 18           | Orange/Red   |              |                   |



# Multi-Conductor, Unshielded

UL 2464, UL 2587, NEC Type CL3 and CM (UL) c(UL), CSA CMG



## Product Construction:

### Conductor:

- 16 thru 12 AWG fully annealed stranded tinned copper per ASTM B-33

### Insulation:

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

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

- Public address systems
- Intercoms
- Internal telephones
- Remote control circuits
- Suitable for EIA RS-232 applications
- Suggested voltage rating: 300 volts

## Compliances:

- NEC Article 725 Type CL3 (UL: 75°C)
- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2464 (UL: 80°C, 300V)
- UL Style 2587 (UL: 90°C, 600V)
- CSA CMG (CSA: 60°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

## Packaging:

- 1000' (305 m) Spools or Reels
- 500' (152 m) Spools or Reels
- 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. |    | NOM. C-C CAP.* pF/ft |
|----------------|--------------|----------|---------------|---------------------------|----|-----------------------|----|--------------|----|----------------------|
|                |              |          |               | INCHES                    | mm | INCHES                | mm | INCHES       | mm |                      |

### NEC TYPE CM, UL STYLE 2464 (300 volts)

|       |    |    |          |       |      |       |      |       |       |      |
|-------|----|----|----------|-------|------|-------|------|-------|-------|------|
| C2405 | 2  | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.268 | 6.81  | 28.0 |
| C2406 | 3  | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.283 | 7.19  | 28.0 |
| C2425 | 4  | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.306 | 7.77  | 28.0 |
| C2434 | 5  | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.334 | 8.48  | 28.0 |
| C2426 | 7  | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.364 | 9.25  | 28.0 |
| C2443 | 8  | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.395 | 10.03 | 28.0 |
| C2435 | 9  | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.425 | 10.80 | 28.0 |
| C2427 | 12 | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.479 | 12.17 | 28.0 |
| C2428 | 15 | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.530 | 13.46 | 28.0 |
| C2429 | 19 | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.564 | 14.33 | 28.0 |
| C2436 | 25 | 16 | 19/.0117 | 0.021 | 0.53 | 0.032 | 0.81 | 0.657 | 16.69 | 28.0 |

### NEC TYPE CL3, UL STYLE 2587 (600 volts)

|        |   |    |           |       |      |       |      |       |       |      |
|--------|---|----|-----------|-------|------|-------|------|-------|-------|------|
| C2409† | 2 | 14 | 19/.0147  | 0.032 | 0.81 | 0.032 | 0.81 | 0.326 | 8.51  | 26.0 |
| C2430  | 4 | 14 | 19/.0147  | 0.032 | 0.81 | 0.032 | 0.81 | 0.391 | 9.93  | 26.0 |
| C2437  | 5 | 14 | 19/.0147  | 0.032 | 0.81 | 0.032 | 0.81 | 0.428 | 10.87 | 26.0 |
| C2431  | 7 | 14 | 19/.0147  | 0.032 | 0.81 | 0.032 | 0.81 | 0.469 | 11.91 | 26.0 |
| C2410  | 2 | 12 | 19/0.0185 | 0.032 | 0.81 | 0.032 | 0.81 | 0.370 | 9.40  | 28.0 |
| C2440  | 4 | 12 | 19/0.0185 | 0.032 | 0.81 | 0.032 | 0.81 | 0.434 | 11.02 | 28.0 |

\* Capacitance between conductors

† CL3, UL2587, CSA CMH Only

## Color Code Chart Per ICEA

| NO. OF COND. | COLOR       | NO. OF COND. | COLOR        | NO. OF COND. | COLOR             |
|--------------|-------------|--------------|--------------|--------------|-------------------|
| 1            | Black       | 10           | Orange/Black | 19           | Blue/Red          |
| 2            | White       | 11           | Blue/Black   | 20           | Red/Green         |
| 3            | Red         | 12           | Black/White  | 21           | Orange/Green      |
| 4            | Green       | 13           | Red/White    | 22           | Black/White/Red   |
| 5            | Orange      | 14           | Green/White  | 23           | White/Black/Red   |
| 6            | Blue        | 15           | Blue/White   | 24           | Red/Black/White   |
| 7            | White/Black | 16           | Black/Red    | 25           | Green/Black/White |
| 8            | Red/Black   | 17           | White/Red    |              |                   |
| 9            | Green/Black | 18           | Orange/Red   |              |                   |

**CAROL BRAND**



CMG  
Certified  
Canadian Standard Association



# Multi-Conductor, Unshielded

UL 2464, NEC Type CM (UL) c(UL), CSA CMG

## Product Construction:

### Conductor:

- 22 thru 18 fully annealed stranded tinned copper per ASTM B-33

### Insulation:

- Premium grade color coded PVC (18 AWG), S-R PVC (22 AWG)
- Color Code: See chart below

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

- TV antenna rotor control
- Satellite actuator control
- Public address systems
- Suggested voltage rating: 300 volts

## Features:

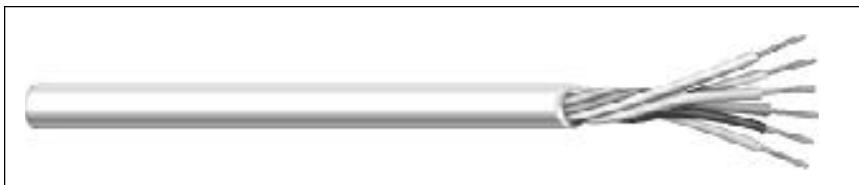
- Tinned copper conductors provide excellent corrosion resistance
- Assists with soldering applications

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2464 (UL: 80°C, 300V)
- CSA CMG (CSA: 60°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

## Packaging:

- 1000' (305 m) Spools or Reels
- 500' (152 m) Spools or Reels
- 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. |      | NOM. C-C CAP.* pF/ft |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|----------------------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   |                      |
| <b>C4081</b>   | 6            | 4-22     | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.244        | 6.20 | 25.5                 |
|                |              | 2-18     | 16/30         | 0.016                     | 0.41 |                       |      |              |      | 28.0                 |
| <b>C4082</b>   | 7            | 5-22     | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.253        | 6.43 | 25.5                 |
|                |              | 2-18     | 16/30         | 0.016                     | 0.41 |                       |      |              |      | 28.0                 |
| <b>C4083</b>   | 8            | 6-22     | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.263        | 6.69 | 25.5                 |
|                |              | 2-18     | 16/30         | 0.016                     | 0.41 |                       |      |              |      | 28.0                 |
| <b>C4084</b>   | 9            | 7-22     | 7/30          | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.273        | 6.94 | 25.5                 |
|                |              | 2-18     | 16/30         | 0.016                     | 0.41 |                       |      |              |      | 28.0                 |

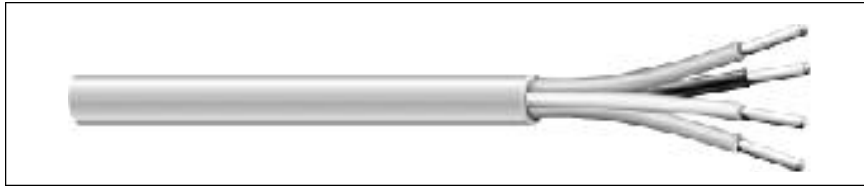
\* Capacitance between conductors

## Color Code Chart

| NO. OF COND. | COLOR  |
|--------------|--------|
| 1 18 ga.     | Black  |
| 2            | White  |
| 1 22 ga.     | Red    |
| 2            | Green  |
| 3            | Brown  |
| 4            | Blue   |
| 5            | Orange |
| 6            | Yellow |
| 7            | Violet |

# Power-Limited Tray Cable, Unshielded

## NEC Type PLTC



| CATALOG<br>NUMBER | NO. OF<br>COND. | AWG<br>SIZE | COND.<br>STRAND. | NOM. INSULATION<br>THICKNESS |      | NOM. JACKET<br>THICKNESS |      | NOMINAL O.D. |      | NOM.<br>C-C<br>CAP.*<br>pF/ft |
|-------------------|-----------------|-------------|------------------|------------------------------|------|--------------------------|------|--------------|------|-------------------------------|
|                   |                 |             |                  | INCHES                       | mm   | INCHES                   | mm   | INCHES       | mm   |                               |
| C0431             | 2               | 22          | 7/30             | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.190        | 4.83 | 25.5                          |
| C0432             | 3               | 22          | 7/30             | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.198        | 5.03 | 25.5                          |
| C0433             | 2               | 20          | 7/28             | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.206        | 5.23 | 28.0                          |
| C0434             | 3               | 20          | 7/28             | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.216        | 5.49 | 28.0                          |
| C0435             | 2               | 18          | 16/30            | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.226        | 5.74 | 30.0                          |
| C0436             | 3               | 18          | 16/30            | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.237        | 6.02 | 30.0                          |
| C0444             | 4               | 18          | 16/30            | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.257        | 6.53 | 30.0                          |
| C0437             | 2               | 16          | 19/.0117         | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.238        | 6.05 | 34.0                          |
| C0438             | 3               | 16          | 19/.0117         | 0.013                        | 0.33 | 0.037                    | 0.94 | 0.250        | 6.35 | 34.0                          |
| C0439             | 2               | 14          | 19/.0147         | 0.013                        | 0.33 | 0.042                    | 1.07 | 0.276        | 7.01 | 37.0                          |
| C0440             | 3               | 14          | 19/.0147         | 0.013                        | 0.33 | 0.042                    | 1.07 | 0.290        | 7.37 | 37.0                          |
| C0441             | 2               | 12          | 19/.0185         | 0.013                        | 0.33 | 0.042                    | 1.07 | 0.314        | 7.98 | 40.0                          |

\* Capacitance between conductors

### Color Code Chart

| NO. OF<br>COND. | COLOR |
|-----------------|-------|
| 1               | Black |
| 2               | Red   |
| 3               | White |
| 4               | Green |

### Product Construction:

#### Conductor:

- 22 thru 12 AWG fully annealed stranded tinned copper per ASTM B-33

#### Insulation:

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

#### Jacket:

- PVC, gray
- Temperature Range: -20°C to +105°C

### Applications:

- Cable tray installations
- Power limited circuits
- Intercom systems
- Business machines
- Cash registers
- Automatic valve control systems
- Irrigation systems
- Suggested voltage rating: 300 volts
- Burglar Alarms

### Features:

- Sunlight resistant PVC jacket
- UL rated for cable tray use

### Compliances:

- NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
- Meets UL 70,000 BTU Vertical Tray Flame Test

### Packaging:

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

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Backed to Meet  
UL Vertical Tray  
Flame Test  
Underwriters Laboratories Inc.

**BICCGeneral**

# Multi-Conductor, Rubber, Unshielded

## Product Construction:

### Conductor:

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

### Insulation:

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

### Jacket:

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

## Applications:

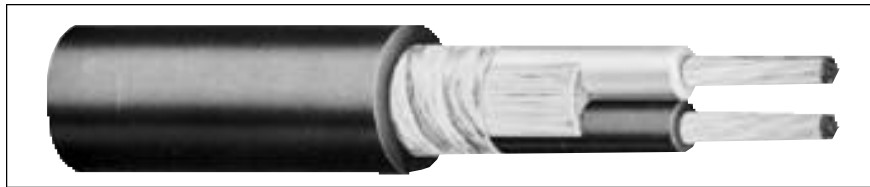
- Energy management systems
- Control circuits
- Fire alarm control
- Broadcast and studio requirements
- Suggested voltage rating: 350 volts

## Features:

- Excellent impact resistance
- High level of abrasion resistance
- High flexibility
- Excellent mechanical strength
- Excellent moisture resistance

## Packaging:

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



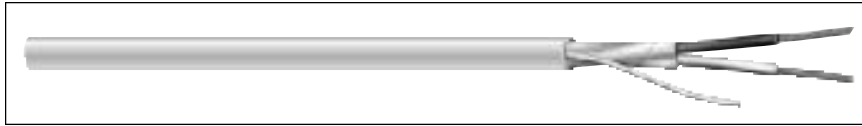
| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS |      | NOM. JACKET THICKNESS |      | NOMINAL O.D. |       |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|-------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm    |
| <b>C3602</b>   | 2            | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.230        | 5.84  |
| <b>C3603</b>   | 3            | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.255        | 6.48  |
| <b>C3604</b>   | 4            | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.275        | 6.99  |
| <b>C3605</b>   | 5            | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.300        | 7.62  |
| <b>C3606</b>   | 6            | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.315        | 8.00  |
| <b>C3607</b>   | 7            | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.347        | 8.81  |
| <b>C3608</b>   | 8            | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.360        | 9.14  |
| <b>C3610</b>   | 10           | 20       | 26/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.410        | 10.41 |

## Color Code Chart

| NO. OF COND. | COLOR  |
|--------------|--------|
| 1            | Black  |
| 2            | White  |
| 3            | Red    |
| 4            | Green  |
| 5            | Blue   |
| 6            | Brown  |
| 7            | Yellow |
| 8            | Orange |
| 9            | Gray   |
| 10           | Violet |

# Multi-Conductor, Foil Shield

## NEC Type CL2 and CM (UL) c(UL) CMH



| CATALOG<br>NUMBER                      | NO. OF<br>COND. | AWG<br>SIZE | COND.<br>STRAND. | NOM. INSULATION<br>THICKNESS |      | NOM. JACKET<br>THICKNESS |      | NOMINAL O.D. |      | NOM. CAP.***<br>pF/ft |      |
|----------------------------------------|-----------------|-------------|------------------|------------------------------|------|--------------------------|------|--------------|------|-----------------------|------|
|                                        |                 |             |                  | INCHES                       | mm   | INCHES                   | mm   | INCHES       | mm   | A                     | B    |
| UL STYLE 2092, CM (UL) c(UL) CMH, 300V |                 |             |                  |                              |      |                          |      |              |      |                       |      |
| C2513                                  | 2               | 24          | 7/32             | 0.016                        | 0.41 | 0.026                    | 0.66 | 0.167        | 4.24 | 23.0                  | 42.0 |
| C2514                                  | 2               | 22          | 7/30             | 0.016                        | 0.41 | 0.026                    | 0.66 | 0.179        | 4.55 | 26.0                  | 47.0 |
| C2524                                  | 2               | 20          | 7/28             | 0.016                        | 0.41 | 0.030                    | 0.76 | 0.203        | 5.16 | 31.0                  | 56.0 |
| C2534                                  | 2               | 18          | 16/30            | 0.018                        | 0.46 | 0.030                    | 0.76 | 0.233        | 5.92 | 24.0                  | 43.0 |

Color Code Chart #1

|                                               |   |    |       |       |      |       |      |       |      |      |      |
|-----------------------------------------------|---|----|-------|-------|------|-------|------|-------|------|------|------|
| <b>UL STYLE 2093, CM (UL) c(UL) CMH, 300V</b> |   |    |       |       |      |       |      |       |      |      |      |
| <b>C2526</b>                                  | 3 | 22 | 7/30  | 0.016 | 0.41 | 0.030 | 0.76 | 0.196 | 4.98 | 25.0 | 45.0 |
| <b>C2528</b>                                  | 3 | 20 | 7/28  | 0.016 | 0.41 | 0.030 | 0.76 | 0.210 | 5.34 | 27.0 | 51.0 |
| <b>C2525</b>                                  | 3 | 20 | 7/28  | 0.016 | 0.41 | 0.030 | 0.76 | 0.213 | 5.41 | 29.0 | 52.0 |
| <b>C2535</b>                                  | 3 | 18 | 16/30 | 0.018 | 0.46 | 0.030 | 0.76 | 0.247 | 6.27 | 22.0 | 40.0 |

Color Code Chart #1

|                                               |   |    |      |       |      |       |      |       |      |      |      |
|-----------------------------------------------|---|----|------|-------|------|-------|------|-------|------|------|------|
| <b>UL STYLE 2094, CM (UL) c(UL) CMH, 300V</b> |   |    |      |       |      |       |      |       |      |      |      |
| <b>C2523</b>                                  | 4 | 22 | 7/30 | 0.016 | 0.41 | 0.030 | 0.76 | 0.213 | 5.41 | 23.0 | 42.0 |
| <b>C2555</b>                                  | 4 | 20 | 7/28 | 0.016 | 0.41 | 0.030 | 0.76 | 0.234 | 5.94 | 26.0 | 47.0 |

Color Code Chart #1

|                                 |   |    |          |       |      |       |      |       |      |      |      |
|---------------------------------|---|----|----------|-------|------|-------|------|-------|------|------|------|
| <b>UL STYLE 2106, CSA, 600V</b> |   |    |          |       |      |       |      |       |      |      |      |
| <b>C2536*</b>                   | 2 | 16 | 19/.0117 | 0.032 | 0.81 | 0.032 | 0.81 | 0.302 | 7.67 | 27.0 | 49.0 |
| <b>C2538**</b>                  | 2 | 14 | 19/.0147 | 0.032 | 0.81 | 0.032 | 0.81 | 0.335 | 8.51 | 31.0 | 56.0 |
| <b>C2539**</b>                  | 2 | 12 | 19/.0185 | 0.032 | 0.81 | 0.040 | 1.02 | 0.376 | 9.55 | 35.0 | 63.0 |

\* CM (UL) c(UL)

\*\*CL2

Color Code Chart #1

|                                               |   |    |          |       |      |       |      |       |      |      |      |
|-----------------------------------------------|---|----|----------|-------|------|-------|------|-------|------|------|------|
| <b>UL STYLE 2107, CM (UL) c(UL) CMH, 600V</b> |   |    |          |       |      |       |      |       |      |      |      |
| <b>C2537</b>                                  | 3 | 16 | 19/.0117 | 0.032 | 0.81 | 0.032 | 0.81 | 0.326 | 8.28 | 26.0 | 46.0 |

Color Code Chart #1

|                                                   |   |    |      |       |      |       |      |       |      |      |       |
|---------------------------------------------------|---|----|------|-------|------|-------|------|-------|------|------|-------|
| <b>UL STYLE 2464, CL2/CM (UL) c(UL) CMH, 300V</b> |   |    |      |       |      |       |      |       |      |      |       |
| <b>C2540</b>                                      | 2 | 20 | 7/28 | 0.012 | 0.30 | 0.025 | 0.64 | 0.180 | 4.57 | 59.0 | 110.0 |

PVC Insulation, Color Code Chart #2

|                                |   |    |       |       |      |       |      |       |      |      |      |
|--------------------------------|---|----|-------|-------|------|-------|------|-------|------|------|------|
| <b>CM (UL) c(UL) CMH, 300V</b> |   |    |       |       |      |       |      |       |      |      |      |
| <b>C2515</b>                   | 2 | 22 | Solid | 0.007 | 0.18 | 0.020 | 0.51 | 0.124 | 3.15 | 40.0 | 76.0 |
| <b>C2516</b>                   | 2 | 22 | 7/30  | 0.008 | 0.20 | 0.020 | 0.51 | 0.137 | 3.48 | 34.0 | 67.0 |
| <b>C2517</b>                   | 3 | 22 | 7/30  | 0.008 | 0.20 | 0.020 | 0.51 | 0.144 | 3.66 | 32.0 | 60.0 |

Polypropylene Insulation, Color Code Chart #2

\*\*\*A - Capacitance between conductors

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

### Color Code Chart 1

| NO. OF COND. | COLOR   |
|--------------|---------|
| 1            | Black   |
| 2            | Natural |
| 3            | Red     |
| 4            | Green   |

### Color Code Chart 2

| NO. OF COND. | COLOR |
|--------------|-------|
| 1            | Black |
| 2            | Red   |
| 3            | Clear |

### Product Construction:

#### Conductor:

- 24 thru 12 AWG fully annealed solid or stranded tinned copper per ASTM B-33

#### Insulation:

- Premium grade color coded polyethylene
- Premium grade color coded polypropylene
- Color Code: See charts below

#### Shield:

- 100% Flexfoil® aluminum/polyester, 25% overlap, foil facing out
- Stranded tinned copper drain wire

#### Jacket:

- PVC, gray
- Temperature Range: -20°C to +75°C

### Applications:

- Recording studios and sound stages
- Broadcast and sound systems
- Computers
- Industrial equipment control
- Suggested voltage rating: 300 or 600 volts

### Features:

- Excellent electrical properties
- Superior shielding effectiveness
- 25% shield overlap provides excellent shielding efficiency
- Good flexibility

### Compliances:

- UL Style 2092 (UL: 60°C, 300V)
- UL Style 2093 (UL: 60°C, 300V)
- UL Style 2094 (UL: 60°C, 300V)
- UL Style 2106 (UL: 60°C, 600V)
- UL Style 2107 (UL: 60°C, 600V)
- UL Style 2464 (UL: 80°C, 300V)
- NEC Article 725 Type CL2 (UL: 75°C)
- NEC Article 800 Type CM (UL: 75°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- CSA CMH (CSA 60°C)
- Passes CSA CMH Flame Test

### Packaging:

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



CMH  
Certified  
Canadian Standard Association



# Multi-Conductor, Foil Shield

UL 2464, NEC Type CM (UL) c(UL), CSA CMG

## Product Construction:

### Conductor:

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

### Insulation:

- Premium grade color coded S-R PVC
- Color Code: See chart below

### Shield:

- 100% Flexfoil® aluminum/polyester, 25% overlap, foil facing out
- Stranded tinned copper drain wire

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

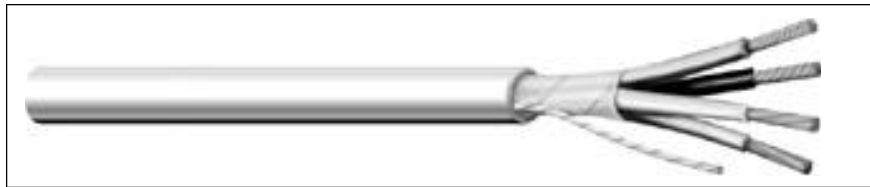
- Audio, broadcast, instrumentation and sound systems
- Suggested voltage rating: 300 volts

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2464 (UL: 80°C, 300V)
- CSA CMG (60°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

## Packaging:

- 1000' (305 m) Spools or Reels
- 500' (152 m) Spools or Reels
- 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. |      | NOM. CAP.* pF/ft |    |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|------------------|----|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   | A                | B  |
| <b>C2543</b>   | 4            | 18       | 19/30         | 0.010                     | 0.25 | 0.032                 | 0.81 | 0.238        | 6.05 | 50               | 90 |

\*A - Capacitance between conductors

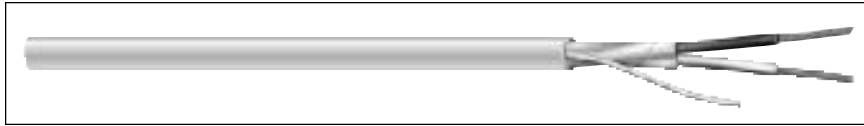
\*B - Capacitance between one conductor and other conductors connected to shield

## Color Code Chart

| NO. OF COND. | COLOR |
|--------------|-------|
| 1            | Black |
| 2            | Red   |
| 3            | White |
| 4            | Green |

# Multi-Conductor, Foil Shield

UL 2092, NEC Type CM (UL) c(UL) CMH



| CATALOG<br>NUMBER                      | NO. OF<br>COND. | AWG<br>SIZE | COND.<br>STRAND. | NOM. INSULATION<br>THICKNESS |      | NOM. JACKET<br>THICKNESS |      | NOMINAL O.D. |      | NOM. CAP.*<br>pF/ft |      |
|----------------------------------------|-----------------|-------------|------------------|------------------------------|------|--------------------------|------|--------------|------|---------------------|------|
|                                        |                 |             |                  | INCHES                       | mm   | INCHES                   | mm   | INCHES       | mm   | A                   | B    |
| UL STYLE 2092, CM (UL) c(UL) CMH, 300V |                 |             |                  |                              |      |                          |      |              |      |                     |      |
| C2518                                  | 2               | 22          | 7/30             | 0.016                        | 0.41 | 0.026                    | 0.66 | 0.181        | 4.60 | 20.0                | 36.0 |
| C2519                                  | 2               | 20          | 7/28             | 0.016                        | 0.41 | 0.028                    | 0.71 | 0.201        | 5.11 | 22.0                | 40.0 |
| C2521                                  | 2               | 18          | 16/30            | 0.018                        | 0.46 | 0.028                    | 0.71 | 0.229        | 5.82 | 24.0                | 44.0 |

Polyethylene Insulation, Color Code Chart #1

|                                |   |    |      |       |      |       |      |       |      |      |      |
|--------------------------------|---|----|------|-------|------|-------|------|-------|------|------|------|
| <b>CM (UL) c(UL) CMH, 300V</b> |   |    |      |       |      |       |      |       |      |      |      |
| <b>C2520</b>                   | 2 | 22 | 7/30 | 0.008 | 0.20 | 0.020 | 0.51 | 0.137 | 3.48 | 25.0 | 45.0 |

Polypropylene Insulation, Color Code Chart #2

\*A - Capacitance between conductors

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

## Color Code Chart 1

| NO. OF COND. | COLOR   |
|--------------|---------|
| 1            | Black   |
| 2            | Natural |

## Color Code Chart 2

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

## Product Construction:

### Conductor:

- 22 thru 18 AWG fully annealed stranded tinned copper per ASTM B-33

### Insulation:

- Premium grade color coded polypropylene or polyethylene
- Color Code: See charts below

### Shield:

- 100% aluminum/polyester foil "bonded" to jacket, foil facing in
- Stranded tinned copper drain wire

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

- 100% shielded cable where RF shielding is required
- Control circuits
- Data and signal transmission
- Computer interconnections
- Suggested voltage rating: 300 volts

## Features:

- The jacket and shield are "bonded" for ease of removal on automatic stripping equipment

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2092 (UL: 60°C, 300V)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- CSA CMH (CSA 60°C)
- Passes CSA CMH Flame Test

## Packaging:

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

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# Power-Limited Tray Cable, Foil Shield

## NEC Type PLTC

### Product Construction:

#### Conductor:

- 22 thru 12 AWG fully annealed stranded tinned copper per ASTM B-33

#### Insulation:

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

#### Shield:

- 100% Flexfoil® aluminum/polyester, 25% overlap foil facing out
- Stranded tinned copper drain wire

#### Jacket:

- PVC, gray
- Temperature Range: -20°C to +105°C

### Applications:

- Cable tray installations
- Power limited circuits
- Intercom systems
- Business machines
- Cash registers
- Industrial control systems
- Petrochemical refineries
- Suggested voltage rating: 300 volts
- Burglar Alarms

### Features:

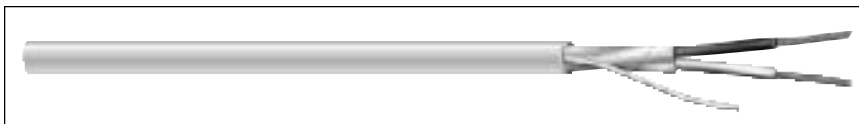
- Sunlight resistant PVC jacket
- Good weather resistance
- UL tray cable rated

### Compliances:

- NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test

### Packaging:

- 1000' (305 m) Spools or Reels
- 500' (152 m) Spools or Reels
- 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. |      | NOM. CAP.* pF/ft |       |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|------------------|-------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   | A                | B     |
| C0450          | 2            | 22       | 7/30          | 0.013                     | 0.33 | 0.037                 | 0.94 | 0.191        | 4.85 | 40.5             | 72.5  |
| C0451          | 3            | 22       | 7/30          | 0.013                     | 0.33 | 0.037                 | 0.94 | 0.199        | 5.05 | 38.0             | 68.0  |
| C0452          | 2            | 20       | 7/28          | 0.013                     | 0.33 | 0.037                 | 0.94 | 0.207        | 5.26 | 45.5             | 81.5  |
| C0453          | 3            | 20       | 7/28          | 0.013                     | 0.33 | 0.037                 | 0.94 | 0.217        | 5.51 | 43.0             | 77.0  |
| C0454          | 2            | 18       | 16/30         | 0.013                     | 0.33 | 0.037                 | 0.94 | 0.227        | 5.77 | 50.0             | 90.0  |
| C0455          | 3            | 18       | 16/30         | 0.013                     | 0.33 | 0.037                 | 0.94 | 0.238        | 6.04 | 47.0             | 84.5  |
| C0456          | 2            | 16       | 19/.0117      | 0.013                     | 0.33 | 0.037                 | 0.94 | 0.243        | 6.17 | 58.5             | 105.0 |
| C0457          | 3            | 16       | 19/.0117      | 0.013                     | 0.33 | 0.037                 | 0.94 | 0.255        | 6.48 | 51.5             | 93.0  |
| C0458          | 2            | 14       | 19/.0147      | 0.013                     | 0.33 | 0.042                 | 1.07 | 0.288        | 7.32 | 66.0             | 118.5 |
| C0459          | 3            | 14       | 19/.0147      | 0.013                     | 0.33 | 0.042                 | 1.07 | 0.298        | 7.57 | 57.0             | 103.0 |
| C0460          | 2            | 12       | 19/.0185      | 0.013                     | 0.33 | 0.042                 | 1.07 | 0.315        | 8.00 | 74.0             | 135.5 |

\*A - Capacitance between conductors

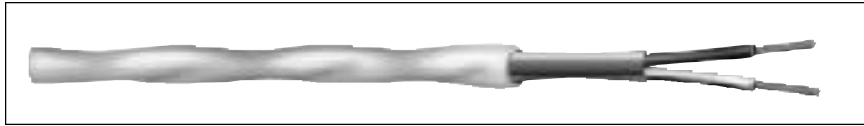
\*B - Capacitance between one conductor and other conductors connected to shield

### Color Code Chart

| NO. OF COND. | COLOR |
|--------------|-------|
| 1            | Black |
| 2            | Red   |
| 3            | White |

# Multi-Conductor, Spiral Shield

UL 2095, NEC Type CL2 and CM (UL) c(UL), CSA CMG



| CATALOG NUMBER | 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 | A                | B |

## UL STYLE 2095, CM (UL) c(UL), CSA CMG, 300V

|              |   |    |      |       |      |       |      |       |      |      |      |
|--------------|---|----|------|-------|------|-------|------|-------|------|------|------|
| <b>C2882</b> | 2 | 22 | 7/30 | 0.015 | 0.38 | 0.032 | 0.81 | 0.197 | 5.00 | 40.0 | 70.0 |
| <b>C2888</b> | 2 | 20 | 7/28 | 0.016 | 0.41 | 0.032 | 0.81 | 0.215 | 5.46 | 47.0 | 79.0 |

Color Code Chart #1

## CL2/CM (UL) c(UL), CSA CMG, 300V

|              |   |    |       |       |      |       |      |       |      |      |      |
|--------------|---|----|-------|-------|------|-------|------|-------|------|------|------|
| <b>C1335</b> | 3 | 22 | 7/30  | 0.015 | 0.38 | 0.032 | 0.81 | 0.206 | 5.23 | 37.0 | 66.0 |
| <b>C1337</b> | 4 | 22 | 7/30  | 0.015 | 0.38 | 0.032 | 0.81 | 0.222 | 5.64 | 35.0 | 62.0 |
| <b>C1341</b> | 6 | 22 | 7/30  | 0.015 | 0.38 | 0.032 | 0.81 | 0.257 | 6.53 | 34.0 | 60.0 |
| <b>C2768</b> | 3 | 18 | 16/30 | 0.016 | 0.41 | 0.032 | 0.81 | 0.256 | 6.50 | 43.0 | 78.0 |

Color Code Chart #1

## CM (UL) c(UL), CSA CMG, 300V

|              |   |    |          |       |      |       |      |       |      |      |      |
|--------------|---|----|----------|-------|------|-------|------|-------|------|------|------|
| <b>C2892</b> | 2 | 18 | 16/30    | 0.016 | 0.41 | 0.032 | 0.81 | 0.243 | 6.17 | 53.0 | 92.0 |
| <b>C2895</b> | 2 | 16 | 19/.0117 | 0.016 | 0.41 | 0.032 | 0.81 | 0.265 | 6.75 | 57.0 | 98.0 |

Color Code Chart #2

\*A - Capacitance between conductors

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

### Color Code Chart 1

| NO. OF COND. | COLOR  |
|--------------|--------|
| 1            | Black  |
| 2            | Red    |
| 3            | White  |
| 4            | Green  |
| 5            | Yellow |
| 6            | Blue   |

### Color Code Chart 2

| CATALOG NUMBER | CONDUCTOR | COLOR |
|----------------|-----------|-------|
| <b>C2892</b>   | 1         | White |
|                | 2         | Red   |
| <b>C2895</b>   | 1         | White |
|                | 2         | Black |

### Product Construction:

#### Conductor:

- 22 thru 16 AWG fully annealed stranded tinned copper per ASTM B-33

#### Insulation:

- Premium grade color coded PVC
- Color Code: See charts below

#### Shield:

- 85% spiral tinned copper

#### Jacket:

- PVC, gray
- 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:

- Spiral shield allows ease of "pigtail soldering"
- Maximum flexibility

### Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2095 (UL: 80°C, 300V)
- CSA CMG (CSA: 60°C)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

### Packaging:

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

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# Multi-Conductor, Braid Shield

UL 2095, NEC Type CM (UL) c(UL), CSA CMG

## Product Construction:

### Conductor:

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

### Insulation:

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

### Shield:

- 88% tinned copper braid
- Stranded or solid 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
- Good flexibility
- Excellent shielding for noise reduction
- Suggested voltage rating: 300 volts

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2095 (UL: 80°C, 300V)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- CSA CMG (CSA: 60°C)
- Passes CSA CMG Flame Test

## 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. |      | NOM. CAP.* pF/ft |      |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|------------------|------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   | A                | B    |
| <b>C2676</b>   | 2            | 22       | Solid         | 0.015                     | 0.38 | 0.032                 | 0.81 | 0.209        | 5.31 | 48.0             | 85.0 |
| <b>C2677</b>   | 2            | 22       | 7/30          | 0.015                     | 0.38 | 0.032                 | 0.81 | 0.211        | 5.36 | 49.0             | 86.0 |

\*A - Capacitance between conductors

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

## Color Code Chart

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

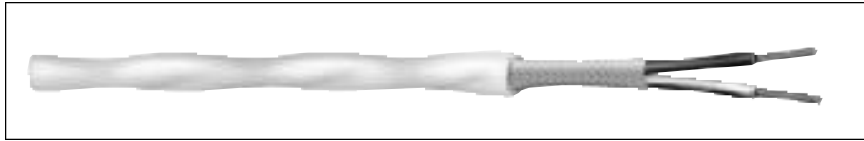


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# Multi-Conductor, Braid Shield

UL 2095, NEC Type CM (UL) c(UL), CSA CMG



| CATALOG NUMBER | 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   | A                | B    |
| <b>C2679</b>   | 2            | 22       | 7/30          | 0.015                     | 0.38 | 0.032                 | 0.81 | 0.212        | 5.38 | 41.0             | 73.0 |
| <b>C2678</b>   | 3            | 22       | 7/30          | 0.015                     | 0.38 | 0.032                 | 0.81 | 0.221        | 5.61 | 37.0             | 67.0 |
| <b>C2680</b>   | 4            | 22       | 7/30          | 0.015                     | 0.38 | 0.032                 | 0.81 | 0.237        | 6.02 | 37.0             | 67.0 |
| <b>C2681</b>   | 2            | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.230        | 5.84 | 42.0             | 76.0 |
| <b>C1332</b>   | 3            | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.240        | 6.10 | 42.0             | 76.0 |
| <b>C2683</b>   | 4            | 20       | 7/28          | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.259        | 6.58 | 39.0             | 70.0 |
| <b>C2686</b>   | 2            | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.252        | 6.40 | 47.0             | 85.0 |
| <b>C2687</b>   | 3            | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.264        | 6.71 | 43.0             | 78.0 |
| <b>C2688</b>   | 4            | 18       | 16/30         | 0.016                     | 0.41 | 0.032                 | 0.81 | 0.286        | 7.26 | 43.0             | 78.0 |

\*A - Capacitance between conductors

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

## Color Code Chart

| NO. OF COND. | COLOR |
|--------------|-------|
| 1            | Black |
| 2            | Red   |
| 3            | White |
| 4            | Green |

## Product Construction:

### Conductor:

- 22 thru 18 AWG fully annealed stranded tinned copper per ASTM B-33

### Insulation:

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

### Shield:

- 75% tinned copper braid

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

- Electronic circuits where RF shielding is required
- Radio transmitters
- Sound systems
- Recording studios
- Provides good flexibility
- Excellent shielding for noise reduction
- Suggested voltage rating: 300 volts

## Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2095 (UL: 80°C, 300V)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test
- CSA CMG (CSA: 60°C)
- Passes CSA CMG Flame Test

## Packaging:

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

**CAROL BRAND**



Designed to Meet  
UL Vertical Tray  
Flame Test  
Underwriters Laboratories Inc.



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**BICCGeneral**

# Multi-Conductor, Braid Shield

## MIL-W-16878 Type B

### Product Construction:

#### Conductor:

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

#### Insulation:

- Premium grade color coded S-R PVC per MIL-W-16878 Type B
- Color Code: See chart below

#### Shield:

- 90% tinned copper braid

#### Jacket:

- PVC, gray
- Temperature Range: -50°C to +105°C

### Applications:

- Electronic circuits where RF shielding is required
- Remote control for studio equipment
- Sound systems
- Provides good flexibility
- Excellent shielding for noise reduction
- Suggested voltage rating: 600 volts
- Non QPL

### Packaging:

- 1000' (305 m) Spools or Reels
- 500' (152 m) Spools or Reels
- 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. |      | NOM. CAP.* |      |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|------------|------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   | A          | B    |
| <b>C6500</b>   | 2            | 28       | 7/36          | 0.011                     | 0.28 | 0.016                 | 0.41 | 0.130        | 3.30 | 30.0       | 54.0 |
| <b>C6501</b>   | 3            | 28       | 7/36          | 0.011                     | 0.28 | 0.016                 | 0.41 | 0.135        | 3.43 | 30.0       | 54.0 |
| <b>C6502</b>   | 4            | 28       | 7/36          | 0.011                     | 0.28 | 0.016                 | 0.41 | 0.145        | 3.68 | 30.0       | 54.0 |
| <b>C6503</b>   | 6            | 28       | 7/36          | 0.011                     | 0.28 | 0.019                 | 0.48 | 0.172        | 4.37 | 30.0       | 54.0 |
| <b>C6504</b>   | 8            | 28       | 7/36          | 0.011                     | 0.28 | 0.021                 | 0.53 | 0.187        | 4.75 | 22.0       | 40.0 |
| <b>C6505</b>   | 10           | 28       | 7/36          | 0.011                     | 0.28 | 0.021                 | 0.53 | 0.212        | 5.38 | 22.0       | 40.0 |
| <b>C6506</b>   | 12           | 28       | 7/36          | 0.011                     | 0.28 | 0.021                 | 0.53 | 0.217        | 5.51 | 22.0       | 40.0 |
| <b>C6507</b>   | 15           | 28       | 7/36          | 0.011                     | 0.28 | 0.021                 | 0.53 | 0.237        | 6.02 | 22.0       | 40.0 |
| <b>C6508</b>   | 20           | 28       | 7/36          | 0.011                     | 0.28 | 0.021                 | 0.53 | 0.289        | 7.34 | 22.0       | 40.0 |

\*A - Capacitance between conductors

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

### Color Code Chart

| NO. OF COND. | COLOR       | NO. OF COND. | COLOR        | NO. OF COND. | COLOR      |
|--------------|-------------|--------------|--------------|--------------|------------|
| <b>1</b>     | Black       | <b>8</b>     | Red/Black    | <b>15</b>    | Blue/White |
| <b>2</b>     | White       | <b>9</b>     | Green/Black  | <b>16</b>    | Black/Red  |
| <b>3</b>     | Red         | <b>10</b>    | Orange/Black | <b>17</b>    | White/Red  |
| <b>4</b>     | Green       | <b>11</b>    | Blue/Black   | <b>18</b>    | Orange/Red |
| <b>5</b>     | Orange      | <b>12</b>    | Black/White  | <b>19</b>    | Blue/Red   |
| <b>6</b>     | Blue        | <b>13</b>    | Red/White    | <b>20</b>    | Red/Green  |
| <b>7</b>     | White/Black | <b>14</b>    | Green/White  |              |            |

# Multi-Conductor, Braid Shield

UL 2092, 2093, 2094



| CATALOG NUMBER | 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   | A                | B    |
| <b>C1642</b>   | 2            | 20       | 26/34         | 0.015                     | 0.38 | 0.029                 | 0.74 | 0.226        | 5.74 | 24.0             | 44.0 |
| <b>C1643</b>   | 3            | 20       | 26/34         | 0.015                     | 0.38 | 0.029                 | 0.74 | 0.236        | 5.99 | 22.0             | 40.0 |
| <b>C1644</b>   | 4            | 20       | 26/34         | 0.015                     | 0.38 | 0.029                 | 0.74 | 0.255        | 6.48 | 22.0             | 40.0 |
| <b>C1645</b>   | 5            | 20       | 26/34         | 0.015                     | 0.38 | 0.029                 | 0.74 | 0.274        | 6.96 | 22.0             | 40.0 |
| <b>C1646</b>   | 6            | 20       | 26/34         | 0.015                     | 0.38 | 0.029                 | 0.74 | 0.294        | 7.48 | 21.0             | 37.0 |

\*A - Capacitance between conductors

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

## Color Code Chart

| NO. OF COND. | COLOR  |
|--------------|--------|
| 1            | Black  |
| 2            | White  |
| 3            | Red    |
| 4            | Green  |
| 5            | Yellow |
| 6            | Blue   |

## UL Style Chart

| STYLE | CATALOG NUMBER |
|-------|----------------|
| 2092  | C1642          |
| 2093  | C1643          |
| 2094  | C1644          |
| 2094  | C1645          |
| 2094  | C1646          |

## Product Construction:

### Conductor:

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

### Insulation:

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

### Shield:

- 80% tinned copper braid

### Jacket:

- PVC, gray
- Temperature Range: -20°C to +80°C

## Applications:

- Electronic circuits where RF shielding is required
- Video interconnect
- Broadcast and Studio
- Sound systems
- Suggested voltage rating: 300 volts

## Features:

- Low capacitance
- Lightweight
- Excellent shielding for noise reduction

## Compliances:

- UL Style 2092 (UL: 80°C, 300V)
- UL Style 2093 (UL: 80°C, 300V)
- UL Style 2094 (UL: 80°C, 300V)
- Designed to Meet UL VW-1 Vertical Wire Flame Test

## Packaging:

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

**CAROL BRAND**

**UL**

Designed to Meet  
UL VW-1 Vertical  
Wire Flame Test  
Underwriters Laboratories Inc.

**BICCGeneral**

# Multi-Conductor, Foil/Braid Shield

UL 2094, NEC Type CL2

## Product Construction:

### Conductor:

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

### Insulation:

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

### Shield:

- 100% Flexfoil® aluminum/polyester, 25% overlap, foil facing out
- 80% tinned copper braid

### Jacket:

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

## Applications:

- Electronic circuits where RF shielding is required
- Video interconnect
- Broadcast and Studio
- Sound systems
- Suggested voltage rating: 300 volts

## Features:

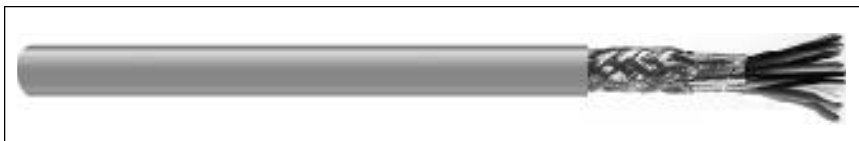
- Low capacitance
- Lightweight
- Excellent shielding for noise reduction

## Compliances:

- NEC Article 725 Type CL2 (UL: 75°C)
- UL Style 2094 (UL: 60°C, 300V)
- Designed to Meet UL 70,000 BTU Vertical Tray Flame Test

## 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. |      | NOM. CAP.* pF/ft |      |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|------------------|------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm   | A                | B    |
| <b>C1648</b>   | 8            | 20       | 26/34         | 0.015                     | 0.38 | 0.029                 | 0.74 | 0.316        | 8.03 | 21.0             | 37.0 |

\*A - Capacitance between conductors

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

## Color Code Chart

| NO. OF COND. | COLOR | NO. OF COND. | COLOR  |
|--------------|-------|--------------|--------|
| 1            | Black | 5            | Yellow |
| 2            | White | 6            | Blue   |
| 3            | Red   | 7            | Brown  |
| 4            | Green | 8            | Orange |

# Multi-Conductor, Rubber, Braid Shield



| CATALOG<br>NUMBER | NO. OF<br>COND. | AWG<br>SIZE | COND.<br>STRAND. | NOM. INSULATION<br>THICKNESS |      | NOM. JACKET<br>THICKNESS |      | NOMINAL O.D. |      |
|-------------------|-----------------|-------------|------------------|------------------------------|------|--------------------------|------|--------------|------|
|                   |                 |             |                  | INCHES                       | mm   | INCHES                   | mm   | INCHES       | mm   |
| <b>C1302</b>      | 2               | 20          | 26/34            | 0.020                        | 0.51 | 0.035                    | 0.89 | 0.270        | 6.86 |
| <b>C1304</b>      | 3               | 20          | 26/34            | 0.020                        | 0.51 | 0.035                    | 0.89 | 0.285        | 7.24 |
| <b>C1305</b>      | 4               | 20          | 26/34            | 0.020                        | 0.51 | 0.035                    | 0.89 | 0.305        | 7.75 |
| <b>C1308</b>      | 5               | 20          | 26/34            | 0.020                        | 0.51 | 0.035                    | 0.89 | 0.330        | 8.38 |
| <b>C1310</b>      | 6               | 20          | 26/34            | 0.020                        | 0.51 | 0.035                    | 0.89 | 0.345        | 8.76 |
| <b>C1312</b>      | 7               | 20          | 26/34            | 0.020                        | 0.51 | 0.035                    | 0.89 | 0.360        | 9.14 |
| <b>C1313</b>      | 8               | 20          | 26/34            | 0.020                        | 0.51 | 0.035                    | 0.89 | 0.385        | 9.78 |

## Color Code Chart

| NO. OF<br>COND. | COLOR | NO. OF<br>COND. | COLOR  |
|-----------------|-------|-----------------|--------|
| <b>1</b>        | Black | <b>5</b>        | Blue   |
| <b>2</b>        | White | <b>6</b>        | Brown  |
| <b>3</b>        | Red   | <b>7</b>        | Yellow |
| <b>4</b>        | Green | <b>8</b>        | Orange |

## Product Construction:

### Conductor:

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

### Insulation:

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

### Shield:

- 80% tinned copper braid

### Jacket:

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

## Applications:

- Control circuits
- Broadcast and studio applications
- Audio interconnects
- Suggested voltage rating: 300 volts

## Features:

- Impact and abrasion resistant
- Stranded conductors for superior flexibility

## Packaging:

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

# Multi-Conductor, Carolprene®, Braid Shield

## Product Construction:

### Conductor:

- 18 thru 14 AWG fully annealed stranded tinned copper per ASTM B-33

### Insulation:

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

### Shield:

- 80% tinned copper braid

### Jacket:

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

## Applications:

- Control circuits
- Broadcast and studio applications
- Audio interconnects
- Suggested voltage rating: 300 volts

## Features:

- Impact and abrasion resistant
- Stranded conductors for superior flexibility
- Designed to Meet UL VW-1 Vertical Wire Flame Test

## Packaging:

- 1000' (305 m) Spools or Reels
- 500' (152 m) Spools or Reels
- 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. |       |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|-------|
|                |              |          |               | INCHES                    | mm   | INCHES                | mm   | INCHES       | mm    |
| <b>C1202</b>   | 2            | 18       | 41/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.295        | 7.49  |
| <b>C1203</b>   | 3            | 18       | 41/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.305        | 7.75  |
| <b>C1204</b>   | 4            | 18       | 41/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.330        | 8.38  |
| <b>C1206</b>   | 6            | 18       | 41/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.370        | 9.39  |
| <b>C1208</b>   | 8            | 18       | 41/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.425        | 10.80 |
| <b>C1210</b>   | 10           | 18       | 41/34         | 0.020                     | 0.51 | 0.035                 | 0.89 | 0.425        | 10.80 |
| <b>C1212</b>   | 12           | 18       | 41/34         | 0.020                     | 0.51 | 0.065                 | 1.65 | 0.555        | 14.10 |
| <b>C1602</b>   | 2            | 16       | 65/34         | 0.025                     | 0.64 | 0.035                 | 0.89 | 0.335        | 8.51  |
| <b>C1603</b>   | 3            | 16       | 65/34         | 0.025                     | 0.64 | 0.035                 | 0.89 | 0.355        | 9.02  |
| <b>C1604</b>   | 4            | 16       | 65/34         | 0.025                     | 0.64 | 0.035                 | 0.89 | 0.385        | 9.78  |
| <b>C1606</b>   | 6            | 16       | 65/34         | 0.025                     | 0.64 | 0.040                 | 1.02 | 0.445        | 11.30 |
| <b>C1608</b>   | 8            | 16       | 65/34         | 0.025                     | 0.64 | 0.040                 | 1.02 | 0.510        | 12.95 |
| <b>C1612</b>   | 2            | 14       | 41/30         | 0.030                     | 0.76 | 0.040                 | 1.02 | 0.395        | 10.03 |
| <b>C1614</b>   | 4            | 14       | 41/30         | 0.030                     | 0.76 | 0.040                 | 1.02 | 0.475        | 12.06 |

## Color Code Chart

| NO. OF COND. | COLOR | NO. OF COND. | COLOR       |
|--------------|-------|--------------|-------------|
| <b>1</b>     | Black | <b>7</b>     | Yellow      |
| <b>2</b>     | White | <b>8</b>     | Orange      |
| <b>3</b>     | Red   | <b>9</b>     | Gray        |
| <b>4</b>     | Green | <b>10</b>    | Violet      |
| <b>5</b>     | Blue  | <b>11</b>    | White/Black |
| <b>6</b>     | Brown | <b>12</b>    | White/Red   |