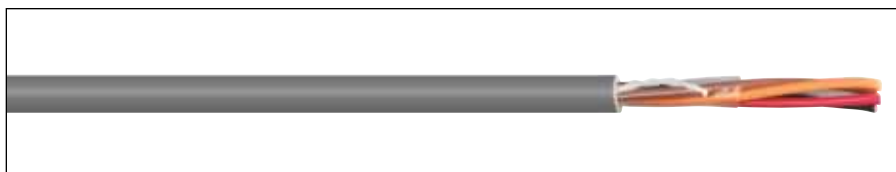


# EXZEL™ MULTI-CONDUCTOR, UNSHIELDED

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

Electronics



### Product Construction:

#### Conductor:

- Fully annealed stranded tinned copper per ASTM B33

#### Insulation:

- Premium-grade, color-coded PVC
- Color per Chart A for 24 AWG and 22 AWG on page 22
- Color per Chart B for 20 AWG and larger on page 22
- International colors per IEC Color Chart on page 22

#### Shield:

- Unshielded

#### Jacket:

- Premium PVC
- Operating temperature range:  
-30°C to +105°C (Type CM)  
-30°C to +80°C (AWM)

### Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

### Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant per UL 720-hr. UV test
- Nylon ripcord

### Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2464 (UL: 80°C, 300 V, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

### Packaging

- Please contact Customer Service for packaging and color options

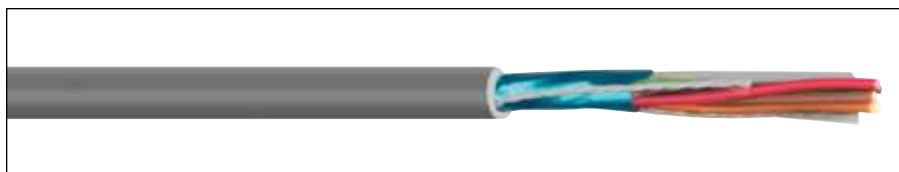
| PART NUMBER | COND. | AWG SIZE | COND. STRAND | NOMINAL INSULATION THICKNESS |      | NOMINAL JACKET THICKNESS |      | NOMINAL CABLE DIAMETER |       |
|-------------|-------|----------|--------------|------------------------------|------|--------------------------|------|------------------------|-------|
|             |       |          |              | INCHES                       | mm   | INCHES                   | mm   | INCHES                 | mm    |
| C9000A      | 2     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.155                  | 3.94  |
| C9001A      | 3     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.161                  | 4.10  |
| C9002A      | 4     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.173                  | 4.40  |
| C9003A      | 6     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.198                  | 5.03  |
| C9004A      | 8     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.211                  | 5.37  |
| C9005A      | 10    | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.241                  | 6.12  |
| C9006A      | 15    | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.271                  | 6.89  |
| C9007A      | 20    | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.297                  | 7.55  |
| C9008A      | 25    | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.327                  | 8.31  |
| C9009A      | 2     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.167                  | 4.24  |
| C9010A      | 3     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.174                  | 4.43  |
| C9011A      | 4     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.188                  | 4.76  |
| C9012A      | 6     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.216                  | 5.49  |
| C9013A      | 8     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.231                  | 5.87  |
| C9014A      | 10    | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.265                  | 6.73  |
| C9015A      | 15    | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.299                  | 7.60  |
| C9016A      | 20    | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.329                  | 8.36  |
| C9017A      | 25    | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.363                  | 9.22  |
| C9018A      | 2     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.205                  | 5.21  |
| C9019A      | 3     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.215                  | 5.47  |
| C9020A      | 4     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.234                  | 5.93  |
| C9021A      | 6     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.273                  | 6.93  |
| C9022A      | 8     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.294                  | 7.47  |
| C9023A      | 10    | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.341                  | 8.66  |
| C9024A      | 15    | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.389                  | 9.87  |
| C9025A      | 20    | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.430                  | 10.92 |
| C9026A      | 25    | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.477                  | 12.12 |
| C9027A*     | 2     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.225                  | 5.72  |
| C9028A      | 2     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.225                  | 5.72  |
| C9029A*     | 3     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.237                  | 6.01  |
| C9030A      | 3     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.237                  | 6.01  |
| C9031A      | 4     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.258                  | 6.55  |
| C9032A      | 6     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.303                  | 7.70  |
| C9033A      | 8     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.327                  | 8.31  |
| C9034A      | 10    | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.381                  | 9.68  |
| C9035A      | 15    | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.436                  | 11.06 |
| C9036A      | 20    | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.483                  | 12.27 |
| C9037A      | 25    | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.537                  | 13.64 |
| C9038A*     | 2     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.245                  | 6.22  |
| C9039A      | 2     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.245                  | 6.22  |
| C9040A*     | 3     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.258                  | 6.56  |
| C9041A      | 3     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.258                  | 6.56  |
| C9042A      | 4     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.282                  | 7.16  |
| C9043A      | 6     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.333                  | 8.46  |
| C9044A      | 8     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.360                  | 9.15  |
| C9045A      | 10    | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.421                  | 10.69 |
| C9046A      | 15    | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.483                  | 12.26 |
| C9047A      | 20    | 16       | 19/.0117     | 0.016                        | 0.41 | 0.053                    | 1.35 | 0.578                  | 14.69 |
| C9048A      | 25    | 16       | 19/.0117     | 0.016                        | 0.41 | 0.053                    | 1.35 | 0.639                  | 16.23 |

\* IEC Color Code: Brown, Blue, Green/Yellow



# EXZEL™ MULTI-CONDUCTOR, FOIL SHIELDED

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



| PART NUMBER | COND. | AWG SIZE | COND. STRAND | NOMINAL INSULATION THICKNESS |      | NOMINAL JACKET THICKNESS |      | NOMINAL CABLE DIAMETER |       |
|-------------|-------|----------|--------------|------------------------------|------|--------------------------|------|------------------------|-------|
|             |       |          |              | INCHES                       | mm   | INCHES                   | mm   | INCHES                 | mm    |
| C9100A      | 2     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.157                  | 3.99  |
| C9101A      | 3     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.163                  | 4.15  |
| C9102A      | 4     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.175                  | 4.45  |
| C9103A      | 6     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.200                  | 5.08  |
| C9104A      | 8     | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.213                  | 5.42  |
| C9105A      | 10    | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.243                  | 6.17  |
| C9106A      | 15    | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.273                  | 6.94  |
| C9107A      | 20    | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.299                  | 7.60  |
| C9108A      | 25    | 24       | 7/32         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.329                  | 8.36  |
| C9109A      | 2     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.169                  | 4.29  |
| C9110A      | 3     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.176                  | 4.48  |
| C9111A      | 4     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.190                  | 4.82  |
| C9112A      | 6     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.218                  | 5.54  |
| C9113A      | 8     | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.233                  | 5.92  |
| C9114A      | 10    | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.267                  | 6.78  |
| C9115A      | 15    | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.301                  | 7.65  |
| C9116A      | 20    | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.331                  | 8.41  |
| C9117A      | 25    | 22       | 7/30         | 0.010                        | 0.25 | 0.032                    | 0.81 | 0.365                  | 9.27  |
| C9118A      | 2     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.207                  | 5.26  |
| C9119A      | 3     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.217                  | 5.52  |
| C9120A      | 4     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.236                  | 5.98  |
| C9121A      | 6     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.275                  | 6.99  |
| C9122A      | 8     | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.296                  | 7.52  |
| C9123A      | 10    | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.343                  | 8.71  |
| C9124A      | 15    | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.391                  | 9.92  |
| C9125A      | 20    | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.432                  | 10.97 |
| C9126A      | 25    | 20       | 7/28         | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.479                  | 12.17 |
| C9127A      | 2     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.227                  | 5.77  |
| C9128A*     | 2     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.227                  | 5.77  |
| C9129A      | 3     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.239                  | 6.06  |
| C9130A*     | 3     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.239                  | 6.06  |
| C9131A      | 4     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.260                  | 6.60  |
| C9132A      | 6     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.305                  | 7.75  |
| C9133A      | 8     | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.329                  | 8.36  |
| C9134A      | 10    | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.383                  | 9.73  |
| C9135A      | 15    | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.438                  | 11.12 |
| C9136A      | 20    | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.485                  | 12.32 |
| C9137A      | 25    | 18       | 16/30        | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.539                  | 13.69 |
| C9138A      | 2     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.247                  | 6.27  |
| C9139A*     | 2     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.247                  | 6.27  |
| C9140A      | 3     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.260                  | 6.61  |
| C9141A*     | 3     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.260                  | 6.61  |
| C9142A      | 4     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.284                  | 7.21  |
| C9143A      | 6     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.335                  | 8.51  |
| C9144A      | 8     | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.362                  | 9.20  |
| C9145A      | 10    | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.423                  | 10.74 |
| C9146A      | 15    | 16       | 19/.0117     | 0.016                        | 0.41 | 0.032                    | 0.81 | 0.485                  | 12.31 |
| C9147A      | 20    | 16       | 19/.0117     | 0.016                        | 0.41 | 0.053                    | 1.35 | 0.580                  | 14.74 |
| C9148A      | 25    | 16       | 19/.0117     | 0.016                        | 0.41 | 0.053                    | 1.35 | 0.641                  | 16.28 |

\* IEC Color Code: Brown, Blue, Green/Yellow

### Product Construction:

#### Conductor:

- Fully annealed stranded tinned copper per ASTM B33

#### Insulation:

- Premium-grade, color-coded PVC
- Color per Chart A for 24 AWG and 22 AWG on page 22
- Color per Chart B for 20 AWG and larger on page 22
- International colors per IEC Color Chart on page 22

#### Shield:

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

#### Jacket:

- Premium PVC
- Operating temperature range:  
-30°C to +105°C (Type CM)  
-30°C to +80°C (AWM)

### Applications:

- Advanced signal transmission in controlled environments
- Medical instrumentation and equipment
- Consumer electronic peripherals
- Industrial process control systems
- Suitable for EIA RS-232 applications

### Features:

- Oil-resistant per UL Oil Res I and Class 43
- Sunlight-resistant per UL 720-hr. UV test
- Nylon ripcord

### Compliances:

- NEC Article 800 Type CM (UL: 105°C)
- UL Style 2464 (UL: 80°C, 300 V, VW-1)
- CSA Type CMG (CSA: 105°C, FT4)
- CE: Low-Voltage Directive (LVD) 2006/95/EC
- RoHS Compliant Directive 2002/95/EC
- Vertical Tray Cable Flame Test per UL 1581 and IEEE 383 (70,000 BTU)

### Packaging

- Please contact Customer Service for packaging and color options

**CAROL BRAND**

**EXZEL™**  
EXCEPTIONAL PERFORMANCE

