

Multi-Paired, Foil/Braid Shield, Lo-Cap®

UL 2919, NEC Type CM (UL) c(UL) CMH



Product Construction:

Conductor:

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

Insulation:

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

Shield:

- 100% Flexfoil® aluminum/polyester with 25% overlap, minimum, foil facing out
- Stranded tinned copper drain wire
- 90% tinned copper braid

Jacket:

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

Applications:

- Computers
- Industrial equipment
- Data transmission
- Control circuits
- Low capacitance requirements
- Suitable for EIA RS-485 applications
- Suggested voltage rating: 30 volts

Features:

- Braid shield provides good flexibility
- Superior shielding where noise rejection is critical
- Assists system designers in meeting FCC Docket 20789 demands

Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2919 (UL: 80°C, 30V)
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- CSA CMH (CSA: 60°C)
- Passes CSA CMH Flame Test

Packaging:

- Please contact Customer Service for packaging and color options

| CATALOG NUMBER | NO. OF PAIRS | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS | | NOM. JACKET THICKNESS | | NOMINAL O.D. | | NOMINAL DCR Ω/kft | | VEL. OF PROP., % | NOM. IMP., Ω | NOMINAL CAP.* pF/ft | |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|-------------------|-------|------------------|--------------|---------------------|------|
| | | | | IN | mm | IN | mm | IN | mm | COND. | SHLD. | | | A | B |
| C0841 | 1 | 24 | 7/32 | 0.024 | 0.61 | 0.032 | 0.81 | 0.235 | 5.97 | 25.7 | 2.9 | 66 | 120 | 14.6 | 26.2 |
| C0842 | 2 | 24 | 7/32 | 0.024 | 0.61 | 0.032 | 0.81 | 0.304 | 7.72 | 25.7 | 2.3 | 66 | 120 | 11.7 | 21.0 |
| C0843 | 3 | 24 | 7/32 | 0.024 | 0.61 | 0.032 | 0.81 | 0.360 | 9.14 | 25.7 | 2.3 | 66 | 120 | 11.9 | 21.4 |
| C0844 | 4 | 24 | 7/32 | 0.024 | 0.61 | 0.032 | 0.81 | 0.390 | 9.91 | 25.7 | 2.1 | 66 | 120 | 11.9 | 21.4 |

*A - Capacitance between conductors

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

Color Code Chart 1

| NO. OF PAIRS | COLOR |
|--------------|-------------------------|
| 1 | Black paired with Red |
| 2 | Black paired with White |
| 3 | Black paired with Green |
| 4 | Black paired with Blue |

| CATALOG NUMBER | NO. OF PAIRS | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS | | NOM. JACKET THICKNESS | | NOMINAL O.D. | | NOMINAL DCR Ω/kft | | VEL. OF PROP., % | NOM. IMP., Ω | NOMINAL* CAP. pF/ft | |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|-------------------|-------|------------------|--------------|---------------------|------|
| | | | | IN | mm | IN | mm | IN | mm | COND. | SHLD. | | | A | B |
| C4841 | 1 | 24 | 7/32 | 0.024 | 0.61 | 0.032 | 0.81 | 0.235 | 5.97 | 25.7 | 2.9 | 66 | 120 | 14.6 | 26.2 |
| C4842 | 2 | 24 | 7/32 | 0.024 | 0.61 | 0.032 | 0.81 | 0.304 | 7.72 | 25.7 | 2.3 | 66 | 120 | 11.7 | 21.0 |
| C4843 | 3 | 24 | 7/32 | 0.024 | 0.61 | 0.032 | 0.81 | 0.360 | 9.14 | 25.7 | 2.3 | 66 | 120 | 11.9 | 21.4 |
| C4844 | 4 | 24 | 7/32 | 0.024 | 0.61 | 0.032 | 0.81 | 0.390 | 9.91 | 25.7 | 2.1 | 66 | 120 | 11.9 | 21.4 |

*A - Capacitance between conductors

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

Color Code Chart 2

| NO. OF PAIRS | COLOR | NO. OF PAIRS | COLOR |
|--------------|--|--------------|--|
| 1 | White—Blue Stripe Blue—White Stripe | 3 | White—Green Stripe Green—White Stripe |
| 2 | White—Orange Stripe Orange—White Stripe | 4 | White—Brown Stripe Brown—White Stripe |



Designed to Meet
UL Vertical Tray
Flame Test

Underwriters Laboratories Inc.



Multi-Paired, Foil/Braid Shield, Lo-Cap®

UL 2960, NEC Type CL2

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded polypropylene
- Color Code: See chart below

Shield:

- 100% Flexfoil® aluminum/polyester with 25% overlap, minimum, foil facing out
- Stranded tinned copper drain wire
- 90% tinned copper braid

Jacket:

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

Applications:

- Computers
- Industrial equipment
- Data transmission
- Control circuits
- Low capacitance requirements
- Suitable for EIA RS-232 applications
- Suitable for EIA RS-422 applications
- Suggested voltage rating: 30 volts

Features:

- Braid shield provides good flexibility
- Superior shielding where noise rejection is critical
- Assists system designers in meeting FCC Docket 20789 demands

Compliances:

- NEC Article 725 Type CL2 (UL: 75°C)
- UL Style 2960 (UL: 60°C, 30V)
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test

Packaging:

- Please contact Customer Service for packaging and color options



| CATALOG NUMBER | NO. OF PAIRS | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS | | NOM. JACKET THICKNESS | | NOMINAL O.D. | | NOMINAL DCR Ω /kft | | VEL. OF PROP., % | NOM. IMP., Ω | NOMINAL CAP.* pF/ft | |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|------|---------------------------|-------|------------------|---------------------|---------------------|------|
| | | | | IN | mm | IN | mm | IN | mm | COND. | SHLD. | | | A | B |
| C0804 | 2 | 28 | 7/36 | 0.009 | 0.23 | 0.032 | 0.81 | 0.194 | 4.93 | 67.5 | 4.0 | 66 | 100 | 14.8 | 26.6 |
| C0805 | 3 | 28 | 7/36 | 0.009 | 0.23 | 0.032 | 0.81 | 0.194 | 4.93 | 67.5 | 4.2 | 66 | 100 | 14.0 | 25.3 |
| C0806 | 4 | 28 | 7/36 | 0.009 | 0.23 | 0.032 | 0.81 | 0.211 | 5.36 | 67.5 | 3.3 | 66 | 100 | 14.0 | 25.3 |
| C0807 | 5 | 28 | 7/36 | 0.009 | 0.23 | 0.032 | 0.81 | 0.226 | 5.74 | 67.5 | 3.5 | 66 | 100 | 14.0 | 25.3 |
| C0808 | 7 | 28 | 7/36 | 0.009 | 0.23 | 0.032 | 0.81 | 0.253 | 6.43 | 67.5 | 2.9 | 66 | 100 | 13.1 | 23.5 |
| C0809 | 9 | 28 | 7/36 | 0.009 | 0.23 | 0.032 | 0.81 | 0.286 | 7.26 | 67.5 | 2.9 | 66 | 100 | 13.1 | 23.5 |
| C0810 | 10 | 28 | 7/36 | 0.009 | 0.23 | 0.032 | 0.81 | 0.285 | 7.24 | 67.5 | 2.9 | 66 | 100 | 13.1 | 23.5 |
| C0812 | 12 | 28 | 7/36 | 0.009 | 0.23 | 0.032 | 0.81 | 0.294 | 7.47 | 67.5 | 3.3 | 66 | 100 | 13.1 | 23.5 |

*A - Capacitance between conductors

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

Color Code Chart

| NO. OF PAIRS | COLOR | NO. OF PAIRS | COLOR |
|--------------|--------------------------|--------------|--------------------------|
| 1 | Black paired with Red | 7 | Black paired with Orange |
| 2 | Black paired with White | 8 | Red paired with White |
| 3 | Black paired with Green | 9 | Red paired with Green |
| 4 | Black paired with Blue | 10 | Red paired with Blue |
| 5 | Black paired with Yellow | 11 | Red paired with Yellow |
| 6 | Black paired with Brown | 12 | Red paired with Brown |

Multi-Paired, Foil/Braid Shield, Lo-Cap®

UL 2919, NEC Type CM (UL) c(UL) CMH



Product Construction:

Conductor:

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

Insulation:

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

Shield:

- 100% Flexfoil® aluminum/polyester with 25% overlap, minimum, foil facing out
- Stranded tinned copper drain wire
- 90% tinned copper braid

Jacket:

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

Applications:

- Computers
- Industrial equipment
- Data transmission
- Control circuits
- Low capacitance requirements
- Suitable for EIA RS-232 applications
- Suitable for EIA RS-422 applications
- Suggested voltage rating: 30 volts

Features:

- Braid shield provides good flexibility
- Superior shielding where noise rejection is critical
- Assists system designers in meeting FCC Docket 20789 demands

Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2919 (UL: 80°C, 30V)
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- CSA CMH (CSA: 60°C)
- Passes CSA CMH Flame Test

Packaging:

- Please contact Customer Service for packaging and color options

| CATALOG NUMBER | NO. OF PAIRS | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS | | NOM. JACKET THICKNESS | | NOMINAL O.D. | | NOMINAL DCR Ω /kft | | VEL. OF PROP., % | NOM. IMP., Ω | NOMINAL CAP.* pF/ft | |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|-------|---------------------------|-------|------------------|---------------------|---------------------|------|
| | | | | IN | mm | IN | mm | IN | mm | COND. | SHLD. | | | A | B |
| C0829 | 2 | 24 | 7/32 | 0.015 | 0.38 | 0.032 | 0.81 | 0.257 | 6.53 | 25.7 | 2.7 | 66 | 100 | 14.8 | 26.7 |
| C0830 | 3 | 24 | 7/32 | 0.015 | 0.38 | 0.032 | 0.81 | 0.289 | 7.34 | 25.7 | 2.6 | 66 | 100 | 14.2 | 25.5 |
| C0831 | 4 | 24 | 7/32 | 0.015 | 0.38 | 0.032 | 0.81 | 0.313 | 7.95 | 25.7 | 3.2 | 66 | 100 | 14.2 | 25.5 |
| C0832 | 5 | 24 | 7/32 | 0.015 | 0.38 | 0.032 | 0.81 | 0.338 | 8.59 | 25.7 | 1.9 | 66 | 100 | 14.2 | 25.5 |
| C0839 | 6 | 24 | 7/32 | 0.015 | 0.38 | 0.032 | 0.81 | 0.364 | 9.24 | 25.7 | 2.4 | 66 | 100 | 13.2 | 23.8 |
| C0833 | 7 | 24 | 7/32 | 0.015 | 0.38 | 0.032 | 0.81 | 0.364 | 9.24 | 25.7 | 2.0 | 66 | 100 | 13.2 | 23.8 |
| C0835 | 10 | 24 | 7/32 | 0.015 | 0.38 | 0.038 | 0.97 | 0.462 | 11.73 | 25.7 | 1.7 | 66 | 100 | 13.2 | 23.8 |
| C0836 | 12 | 24 | 7/32 | 0.015 | 0.38 | 0.038 | 0.97 | 0.479 | 12.17 | 25.7 | 1.8 | 66 | 100 | 13.2 | 23.8 |

*A - Capacitance between conductors

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

Color Code Chart

| NO. OF PAIRS | COLOR | NO. OF PAIRS | COLOR |
|--------------|--------------------------|--------------|--------------------------|
| 1 | Black paired with Red | 7 | Black paired with Orange |
| 2 | Black paired with White | 8 | Red paired with White |
| 3 | Black paired with Green | 9 | Red paired with Green |
| 4 | Black paired with Blue | 10 | Red paired with Blue |
| 5 | Black paired with Yellow | 11 | Red paired with Yellow |
| 6 | Black paired with Brown | 12 | Red paired with Brown |



Designed to Meet
UL Vertical Tray
Flame Test

Underwriters Laboratories Inc.



CMH
Certified

Canadian Standards Association



Multi-Paired, Foil/Braid Shield, Lo-Cap®

UL 2919, NEC Type CM (UL) c(UL) CMH

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded Lo-Cap® foamed polypropylene
- Color Code: See chart below

Shield:

- 100% Flexfoil® aluminum/polyester with 25% overlap, minimum, foil facing out
- Stranded tinned copper drain wire
- 65% tinned copper braid

Jacket:

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

Applications:

- High-speed computer interconnects
- CAD/CAM systems
- EIA RS-232 and RS-423 systems
- Control circuits
- Industrial equipment
- Low signal distortion data requirements
- Suggested voltage rating: 30 volts

Features:

- Braid shield provides good flexibility
- Superior shielding where noise rejection is critical
- Assists system designers in meeting FCC Docket 20789 demands

Compliances:

- NEC Article 800 Type CM (UL: 75°C)
- UL Style 2919 (UL: 80°C, 30V)
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- CSA CMH (CSA: 60°C)
- Passes CSA CMH Flame Test

Packaging:

- Please contact Customer Service for packaging and color options



| CATALOG NUMBER | NO. OF PAIRS | AWG SIZE | COND. STRAND. | NOM. INSULATION THICKNESS | | NOM. JACKET THICKNESS | | NOMINAL O.D. | | NOMINAL DCR Ω/kft | | VEL. OF PROP., % | NOM. IMP., Ω | NOMINAL CAP.* pF/ft | |
|----------------|--------------|----------|---------------|---------------------------|------|-----------------------|------|--------------|-------|-------------------|-------|------------------|--------------|---------------------|------|
| | | | | IN | mm | IN | mm | IN | mm | COND. | SHLD. | | | A | B |
| C0515 | 2 | 24 | 7/32 | 0.016 | 0.41 | 0.032 | 0.81 | 0.276 | 7.01 | 25.7 | 3.0 | 78 | 132 | 10.2 | 18.4 |
| C0516 | 3 | 24 | 7/32 | 0.016 | 0.41 | 0.032 | 0.81 | 0.290 | 7.37 | 25.7 | 3.2 | 78 | 132 | 9.9 | 17.8 |
| C0517 | 4 | 24 | 7/32 | 0.016 | 0.41 | 0.032 | 0.81 | 0.315 | 8.00 | 25.7 | 3.3 | 78 | 132 | 9.9 | 17.8 |
| C0518 | 5 | 24 | 7/32 | 0.016 | 0.41 | 0.032 | 0.81 | 0.340 | 8.64 | 25.7 | 4.2 | 78 | 132 | 9.9 | 17.8 |
| C0519 | 6 | 24 | 7/32 | 0.016 | 0.41 | 0.032 | 0.81 | 0.368 | 9.35 | 25.7 | 3.6 | 78 | 141 | 9.2 | 16.6 |
| C0520 | 7 | 24 | 7/32 | 0.016 | 0.41 | 0.032 | 0.81 | 0.370 | 9.40 | 25.7 | 3.5 | 78 | 141 | 9.2 | 16.6 |
| C0521 | 8 | 24 | 7/32 | 0.016 | 0.41 | 0.032 | 0.81 | 0.397 | 10.08 | 25.7 | 2.7 | 78 | 141 | 9.2 | 16.6 |
| C0522 | 10 | 24 | 7/32 | 0.016 | 0.41 | 0.038 | 0.97 | 0.473 | 12.01 | 25.7 | 2.4 | 78 | 141 | 9.2 | 16.6 |
| C0523 | 12.5 | 24 | 7/32 | 0.016 | 0.41 | 0.038 | 0.97 | 0.486 | 12.34 | 25.7 | 2.4 | 78 | 141 | 9.2 | 16.6 |
| C0524 | 15 | 24 | 7/32 | 0.016 | 0.41 | 0.048 | 1.22 | 0.555 | 14.10 | 25.7 | 2.6 | 78 | 141 | 9.2 | 16.6 |
| C0525 | 18 | 24 | 7/32 | 0.016 | 0.41 | 0.048 | 1.22 | 0.585 | 14.86 | 25.7 | 2.1 | 78 | 141 | 9.2 | 16.6 |
| C0526 | 25 | 24 | 7/32 | 0.016 | 0.41 | 0.048 | 1.22 | 0.677 | 17.20 | 25.7 | 2.0 | 78 | 141 | 9.2 | 16.6 |

*A - Capacitance between conductors

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

Color Code Chart

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

Single Conductor: Green with Yellow Stripe

