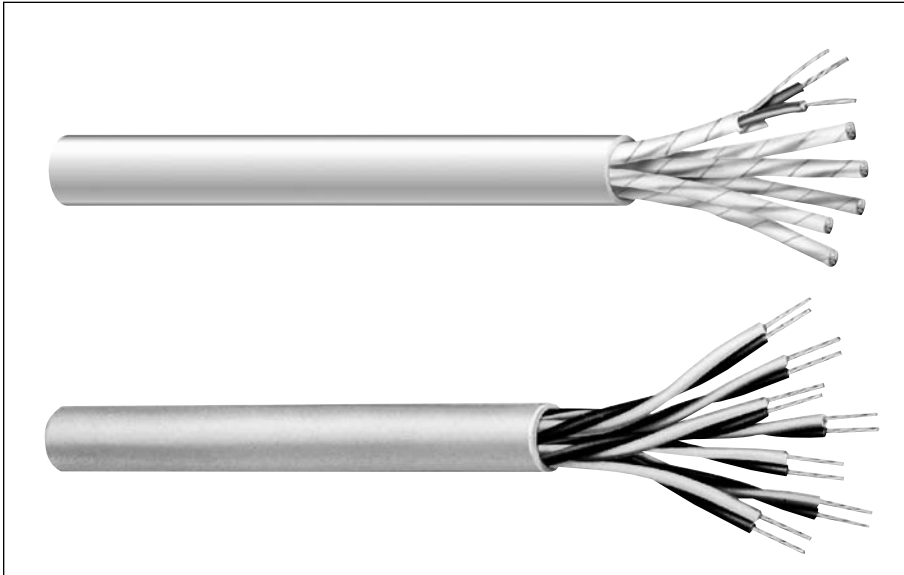


Communication & Control Cable, Multi-Paired



In many electronic applications, two wires are required to complete circuits; these are often referred to as “balanced arrays” or “twisted pair” constructions.

Paired cable designs find frequent application in circuits requiring circuit-to-circuit isolation from noise, minimization of capacitance imbalances and a reduction of EMI interference currents.

Circuit separation is further enhanced in those designs employing individual circuit shields in concert with an overall shield. These shielding systems are available from General Cable in myriad combinations to suit the unique needs of the circuit designer.

As with the multi-conductor designs, a wide array of insulating and jacketing materials are available to meet specific electronic applications.

General Cable’s Carol® Brand communication cable products are manufactured to meet the latest UL, CSA and NEC requirements and approvals.

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Multi-Paired, Unshielded

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

Product Construction:

Conductor:

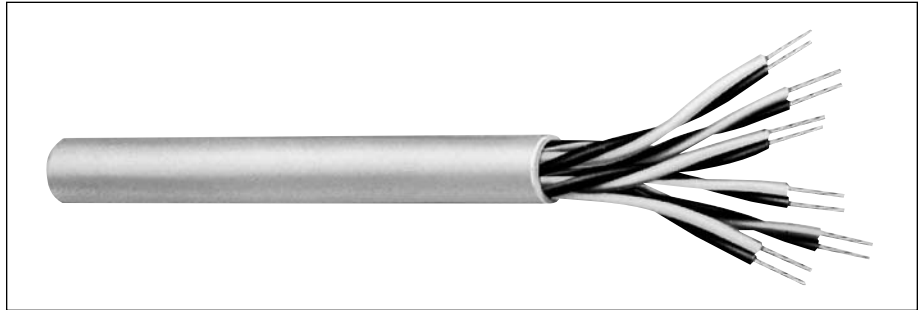
- 22 AWG fully annealed solid or stranded tinned copper per ASTM B-33
- Twisted pairs

Insulation:

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

Jacket:

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



Applications:

- Computers
- Industrial equipment
- Data transmission
- 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)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG 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.		NOM. C-C CAP.* pF/ft
				INCHES	mm	INCHES	mm	INCHES	mm	
C4008A	1	22	Solid	0.010	0.25	0.032	0.81	0.156	3.94	24.5
C4010A	2	22	Solid	0.010	0.25	0.032	0.81	0.218	5.54	24.5
C4014A	3	22	Solid	0.010	0.25	0.032	0.81	0.229	5.82	24.5
C4015A	4	22	Solid	0.010	0.25	0.032	0.81	0.249	6.32	24.5
C4017A	6	22	Solid	0.012	0.30	0.032	0.81	0.293	7.44	24.5
C6010A	2	22	7/30	0.010	0.25	0.032	0.81	0.228	5.79	24.5
C6014A	3	22	7/30	0.010	0.25	0.032	0.81	0.240	6.10	24.5
C6015A	4	22	7/30	0.010	0.25	0.032	0.81	0.262	6.65	24.5
C6017A	6	22	7/30	0.010	0.25	0.032	0.81	0.300	7.62	24.5
C6019A	9	22	7/30	0.010	0.25	0.032	0.81	0.366	9.30	24.5
C6023A	12	22	7/30	0.010	0.25	0.032	0.81	0.410	10.40	24.5
C6026A	15	22	7/30	0.010	0.25	0.032	0.81	0.456	11.58	24.5

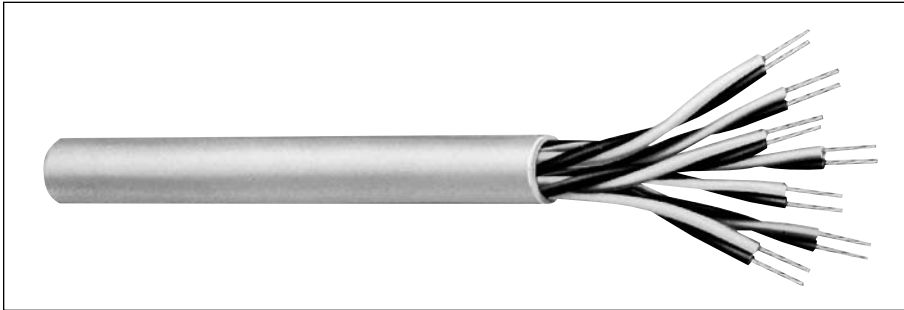
* Capacitance between conductors

Color Code Chart

NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR
1	Black paired with Red	9	Red paired with Green
2	Black paired with White	10	Red paired with Blue
3	Black paired with Green	11	Red paired with Yellow
4	Black paired with Blue	12	Red paired with Brown
5	Black paired with Yellow	13	Red paired with Orange
6	Black paired with Brown	14	Green paired with White
7	Black paired with Orange	15	Green paired with Blue
8	Red paired with White		

Multi-Paired, Unshielded

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



Product Construction:

Conductor:

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

Insulation:

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

Jacket:

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

Applications:

- Computers
- Industrial equipment
- Data transmission
- 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)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG 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.		NOM. C-C CAP.* pF/ft
				INCHES	mm	INCHES	mm	INCHES	mm	
C6101A	1	18	16/30	0.013	0.33	0.032	0.81	0.206	5.23	26.3
C6118A	2	18	16/30	0.013	0.33	0.032	0.81	0.320	8.13	26.3
C6103A	3	18	16/30	0.013	0.33	0.032	0.81	0.338	8.59	26.3
C6119A	4	18	16/30	0.013	0.33	0.032	0.81	0.372	9.45	26.3
C6120A	5	18	16/30	0.013	0.33	0.032	0.81	0.408	10.36	26.3
C6106A	6	18	16/30	0.013	0.33	0.032	0.81	0.445	11.30	26.3
C6121A	8	18	16/30	0.013	0.33	0.032	0.81	0.484	12.29	26.3
C6109A	9	18	16/30	0.013	0.33	0.032	0.81	0.522	13.26	26.3
C6111A	15	18	16/30	0.013	0.33	0.032	0.81	0.659	16.74	26.3

* Capacitance between conductors

Color Code Chart

NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR
1	Black paired with Red	9	Red paired with Green
2	Black paired with White	10	Red paired with Blue
3	Black paired with Green	11	Red paired with Yellow
4	Black paired with Blue	12	Red paired with Brown
5	Black paired with Yellow	13	Red paired with Orange
6	Black paired with Brown	14	Green paired with White
7	Black paired with Orange	15	Green paired with Blue
8	Red paired with White		



Underwriters Laboratories Inc.



Multi-Paired, Unshielded

NEC Type CMP (UL) c(UL)

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded FEP
- Color code: See chart below

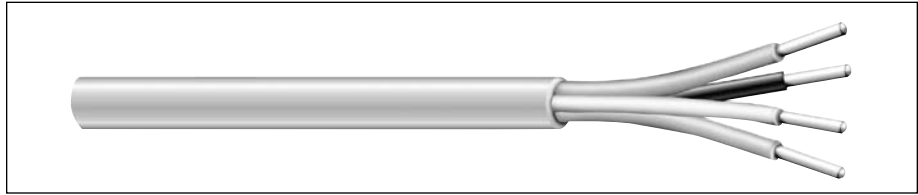
Jacket:

C8116

- FEP, red or as requested
- Temperature range: -40°C to +200°C

C8122

- Flexguard® PVC, natural
- Temperature range: -20°C to +75°C



CATALOG NUMBER	NO. OF PAIRS	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	
C8116	1	18	19/30	0.007	0.18	0.009	0.23	0.142	3.61	20.0
C8122	1	18	19/30	0.007	0.18	0.015	0.38	0.154	3.91	20.0

*Capacitance between conductors

Applications:

- Audio systems
- Remote control circuits
- Process control and instrumentation
- Suggested voltage rating: 300 volts

Color Code Chart

NO. OF PAIRS	COLOR
1	Black and Red

Compliances:

- NEC Article 800
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

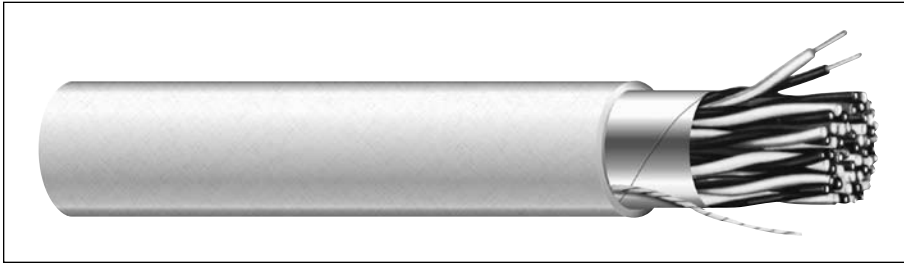
- Fire-retardant, low-smoke jacket

Packaging:

- Please contact Customer Service for packaging and color options

Multi-Paired, Foil Shield

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



Product Construction:

Conductor:

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

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 +75°C

Applications:

- Audio systems
- Communication circuits
- Instrumentation and control use
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800 Type CM (UL: 75°C, 300V)
- CSA CMG (CSA: 60°C)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG 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 CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C7104A†	1	22	7/.0096	0.013	0.33	0.035	0.89	0.185	4.70	35.0	62.0
C1670A	2	22	Solid	0.010	0.25	0.032	0.81	0.218	5.54	32.0	57.0
C1676A	4	22	Solid	0.010	0.25	0.032	0.81	0.249	6.32	28.0	50.0
C1671A	6	22	Solid	0.010	0.25	0.032	0.81	0.292	7.42	25.0	45.0
C1672A	9	22	Solid	0.010	0.25	0.032	0.81	0.338	8.59	25.0	45.0
C1673A	15	22	Solid	0.010	0.25	0.032	0.81	0.419	10.64	25.0	45.0

*A - Capacitance between conductors

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

† Also UL Style 2464 (UL: 80°C, 300V)

Color Code Chart

NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR
1	Black paired with Red	9	Red paired with Green
2	Black paired with White	10	Red paired with Blue
3	Black paired with Green	11	Red paired with Yellow
4	Black paired with Blue	12	Red paired with Brown
5	Black paired with Yellow	13	Red paired with Orange
6	Black paired with Brown	14	Green paired with White
7	Black paired with Orange	15	Green paired with Blue
8	Red paired with White		



Underwriters Laboratories Inc.



Multi-Paired, Foil Shield

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

Product Construction:

Conductor:

- 22 AWG fully annealed solid tinned copper per ASTM B-33
- Twisted pairs

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



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C6451A	51	22	Solid	0.010	0.25	0.050	1.27	0.715	18.16	25.0	45.0

*A - Capacitance between conductors

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

Applications:

- Intercom systems
- Sound systems
- Electronic instrumentation control systems
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800 Type CM (UL: 75°C, 300V)
- UL Style 2095 (UL: 80°C, 300V)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test

Packaging:

- Please contact Customer Service for packaging and color options

Color Code Chart

NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR
1	Blue paired with White	18	Brown/White striped paired with White	35	Green/White striped paired with Red
2	Orange paired with White			36	Green/Brown striped paired with Red
3	Green paired with White	19	Brown/Gray striped paired with White	37	Green/Gray striped paired with Red
4	Brown paired with White			38	Brown/White striped paired with Red
5	Gray paired with White	20	Gray/White striped paired with White	39	Brown/Gray striped paired with Red
6	Blue/White striped paired with White			40	Gray/White striped paired with Red
7	Blue/Orange striped paired with White	21	Blue paired with Red	41	Blue paired with Black
		22	Orange paired with Red		
8	Blue/Green striped paired with White	23	Green paired with Red	42	Orange paired with Black
		24	Brown paired with Red		
9	Blue/Brown striped paired with White	25	Gray paired with Red	43	Green paired with Black
		26	Blue/White striped paired with Red		
10	Blue/Gray striped paired with White	27	Blue/Orange striped paired with Red	44	Brown paired with Black
				45	Gray paired with Black
11	Orange/White striped paired with White	28	Blue/Green striped paired with Red	46	Blue/White striped paired with Black
12	Orange/Green striped paired with White				
13	Orange/Brown striped paired with White	29	Blue/Brown striped paired with Red	47	Blue/Orange striped paired with Black
14	Orange/Gray striped paired with White				
15	Green/White striped paired with White	30	Blue/Gray striped paired with Red	48	Blue/Green striped paired with Black
16	Green/Brown striped paired with White				
17	Green/Gray striped paired with White	31	Orange/White striped paired with Red	49	Blue/Brown striped paired with Black
18	Orange/Green striped paired with White				
19	Orange/Brown striped paired with White	32	Orange/Green striped paired with Red	50	Blue/Gray striped paired with Black
20	Orange/Gray striped paired with White				
21	Green/White striped paired with White	33	Orange/Brown striped paired with Red	51	Orange/White striped paired with Black
22	Green/Brown striped paired with White				
23	Green/Gray striped paired with White	34	Orange/Gray striped paired with Red		
24	Orange/White striped paired with White				

Multi-Paired, Foil Shield

NEC Type CMP (UL) c(UL)



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM. CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B

22 AWG CONDUCTORS

C3204	1	22	7/30	0.006	0.15	0.010	0.25	0.117	2.97	31.0	55.8
C3205	2	22	7/30	0.006	0.15	0.010	0.25	0.151	3.84	25.0	45.0
C3206	3	22	7/30	0.006	0.15	0.010	0.25	0.177	4.50	25.0	36.0
C3207	4	22	7/30	0.006	0.15	0.010	0.25	0.200	5.08	20.0	45.0
C3208	6	22	7/30	0.006	0.15	0.010	0.25	0.237	6.02	18.0	32.4

24 AWG CONDUCTORS

C3150	2	24	7/32	0.006	0.15	0.010	0.25	0.130	3.30	22.0	39.6
C3153	3	24	7/32	0.006	0.15	0.010	0.25	0.152	3.86	18.0	32.4
C3151	4	24	7/32	0.006	0.15	0.010	0.25	0.170	4.32	17.0	30.6
C3165	6	24	7/32	0.006	0.15	0.010	0.25	0.200	5.08	17.0	30.6
C3152	12.5	24	7/32	0.006	0.15	0.012	0.30	0.290	7.04	17.0	30.6

*A - Capacitance between conductors

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

Color Code Chart

NO. OF PAIRS	COLOR
1	Black & Yellow
2	Red & Violet
3	Dark Blue & Brown
4	Orange & Dark Green
5	Pink & Gray
6	Tan & White
7	Light Blue & Light Green
8	Red/White & White/Red
9	Orange/White & White/Orange
10	Yellow/White & White/Yellow
11	Gray/White & White/Gray
12	Blue/White & White/Blue
1C	Dark Green/Yellow

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded fluoropolymer
- Color code: See chart below

Shield:

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

Jacket:

- Fluoropolymer, natural
- Temperature range: -40°C to +150°C
- Sequential footage marked to facilitate installation
- Includes ripcord

Applications:

- EIA RS-232 circuits
- Remote control circuits
- Process control and instrumentation
- Power-limited control circuits
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800 (UL: 150°C, 300V)
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Water-resistant jacket

Packaging:

- Please contact Customer Service for packaging and color options

CAROL BRAND



Designed to Meet
NFPA 262 and CSA FT-6
Steiner Tunnel Fire Tests
for Plenum Applications

Underwriters Laboratories Inc.

General Cable

Multi-Paired, Foil Shield

NEC Type CMP (UL) c(UL)

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded FEP
- Color code: See chart below

Separator:

- Polyester tape with 25% overlap

Shield:

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

Jacket:

- FEP, red or as requested
- PVDF, red or as requested

C8101, C8103, C8104

- Temperature range: -40°C to +200°C

C8109

- Temperature range: -40°C to +150°C

Applications:

- Computer systems
- Remote control circuits
- Process control and instrumentation
- Suggested voltage rating: 300 volts

Compliances:

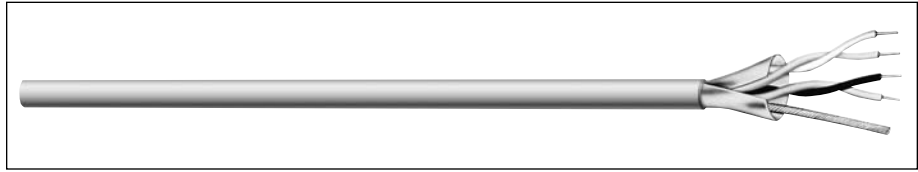
- NEC Article 800
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Fire-retardant, low-smoke jacket

Packaging:

- Please contact Customer Service for packaging and color options
- 1000' (305m) reels



CATALOG NUMBER	NO. OF PAIRS	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
C8101	1	18	19/30	0.007	0.18	0.016	0.41	0.165	4.19	51.0	95.0
C8104	1	18	19/30	0.007	0.18	0.016	0.41	0.165	4.19	51.0	95.0
C8103	1	22	7/30	0.006	0.15	0.014	0.36	0.120	3.05	35.0	65.0
C8109**	1	22	7/30	0.006	0.15	0.016	0.41	0.122	3.10	35.0	65.0

*A - Capacitance between conductors

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

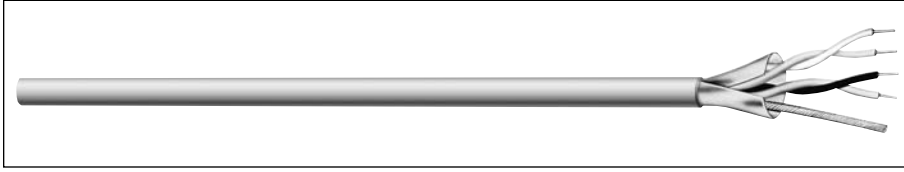
** FEP jacket

Color Code Chart

NO. OF PAIRS	COLOR
1	Black and Red

Multi-Paired, Foil Shield

NEC Type CMP (UL) c(UL)



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM. CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C8118	2	24	7/32	0.014	0.15	0.015	0.38	0.203	5.16	12.0	22.0

*A – Capacitance between conductors

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

Color Code Chart

NO. OF PAIRS	COLOR
1	White/Blue paired with Blue/White
2	White/Orange paired with Orange/White

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded foam FEP
- Color code: See chart below

Separator:

- Polyester tape with 25% overlap

Shield:

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

Jacket:

- PVDF, gray or as requested
- Temperature range: -40°C to +150°C

Applications:

- Computer systems
- Remote control circuits
- Process control and instrumentation
- Suitable for RS232, RS422, RS485
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Fire-retardant, low-smoke jacket

Packaging:

- Please contact Customer Service for packaging and color options



Designed to Meet
 NFPA 262 and CSA FT-6
 Steiner Tunnel Fire Tests
 for Plenum Applications

Underwriters Laboratories Inc.



Multi-Paired, Foil Shield

NEC Type CMP (UL) c(UL)

Product Construction:

Conductor:

- 24, 22 and 18 AWG fully annealed stranded tinned copper per ASTM B-33

Insulation:

- Premium-grade, color-coded FEP
- Color code: See chart below

Separator:

- Polyester tape with 25% overlap

Shield:

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

Jacket:

- Flexguard® PVC, natural or as requested
- Temperature range: -20°C to +75°C

Applications:

- Computer systems
- Remote control circuits
- Process control and instrumentation
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Fire-retardant, low-smoke jacket

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.		NOM. CAP.* pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C8127	1	24	7/32	0.006	0.15	0.014	0.36	0.108	2.69	30.0	60.0
C8113	3	24	7/32	0.006	0.15	0.014	0.36	0.161	4.09	25.0	45.0
C8126	1	22	7/30	0.006	0.15	0.014	0.36	0.120	3.05	35.0	65.0
C8123	1	18	19/30	0.007	0.18	0.014	0.36	0.160	4.06	51.0	90.0

*A - Capacitance between conductors

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

C8124**	1	22	7/30	0.007	0.18	0.017	0.43	0.128	3.25	32.0	62.0
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*A - Capacitance between conductors

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

**This item does not have a separator and has a shield fusible to the jacket to facilitate removal along with the jacket while stripping.

Color Code Chart

NO. OF PAIRS	COLOR
1	Black and Red
C8113 NO. OF PAIRS	COLOR
1	Black paired with White
2	Black paired with Red
3	Black paired with Green

Multi-Paired, Foil Shield

NEC Type CMP (UL) c(UL) and/or CL2P



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM. CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
22 AWG, CL2P, c(UL) 150 VOLTS											
C3352	2	22	7/30 TC	0.007	0.180	0.010	0.25	0.157	3.99	37.0	66.0
C3353	3	22	7/30 TC	0.007	0.180	0.010	0.25	0.194	4.42	30.0	53.0
C3354	4	22	7/30 TC	0.007	0.180	0.010	0.25	0.207	4.75	30.0	53.0
C3356	6	22	7/30 TC	0.007	0.180	0.010	0.25	0.246	5.74	27.0	48.0
18 AWG, CL2P/CMP, c(UL) 150 VOLTS											
C3362	2	18	7/26 BC	0.008	0.020	0.010	0.25	0.205	5.21	44.0	79.0
C3364	4	18	7/26 BC	0.008	0.020	0.010	0.25	0.277	7.04	33.0	59.0

*A – Capacitance between conductors

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

Color Code Chart

NO. OF PAIRS	COLOR
1	Black & Yellow
2	Red & Violet
3	Dark Blue & Brown
4	Orange & Dark Green
5	Pink & Gray
6	Tan & White

Product Construction:

Conductor:

- 22 and 18 AWG fully annealed stranded tinned copper per ASTM B-33 or stranded bare copper per ASTM B-3

Insulation:

- Premium-grade, color-coded Flexguard® PVC
- Color code: See chart below

Shield:

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

Jacket:

- Fluoropolymer, natural
- Temperature range: -20°C to +75°C
- Sequential footage marked to facilitate installation
- Includes ripcord

Applications:

- EIA RS-232 circuits
- Remote control circuits
- Process control and instrumentation
- Power-limited control circuits
- Suggested voltage rating: 150 volts

Compliances:

- NEC Article 800 (UL: 75°C, 300V)
- NEC Article 725 (UL: 75°C, 150V)
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Abrasion-, chemical- and water-resistant jacket

Packaging:

- Please contact Customer Service for packaging and color options



Designed to Meet
 NFPA 262 and CSA FT-6
 Steiner Tunnel Fire Tests
 for Plenum Applications
 Underwriters Laboratories Inc.



Multi-Paired, Foil Shield

AWM Style 2464, CSA Type AWM I/II A/B, NEC/CEC Type CMG (CSA C/US)

Product Construction:

Conductor:

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

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:

- Computers
- Industrial equipment
- Data transmission
- Control circuits
- Suitable for EIA RS-232 applications
- Suggested voltage rating: 300 or 600 volts

Features:

- Excellent electrical properties
- Superior shielding effectiveness
- 25% shield overlap provides excellent shielding efficiency
- Assists system designers in meeting FCC Docket 20780 demands
- Good flexibility

Compliances:

- AWM Style 2464 (CSA: 80°C, 300V)
- CSA Type AWM (105°C, 600V)
- CSA Certified CMG to harmonized standard UL444 and CSA 22.2 No. 214
- NEC/CEC Type CMG (CSA: 105°C, 300V)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet CSA 70,000 BTU Vertical Tray Flame Test
- Passes CSA FT4 Vertical 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		COLOR CODE	NOM. CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	COND.	SHLD.		A	B
C4170A	1	24	7/32	0.010	0.25	0.032	0.81	0.157	3.99	26.0	18.0	1	36.4	65.5
C4209A	1	24	7/32	0.010	0.25	0.032	0.81	0.157	3.99	26.0	18.0	Wht/Blk	36.4	65.5
C4191A	1	24	7/32	0.009	0.23	0.030	0.76	0.148	3.78	26.0	16.5	Blk/Red	43.0	78.0
C4171A	2	24	7/32	0.010	0.25	0.032	0.81	0.214	5.44	26.0	18.0	1	31.9	57.3
C4172A	3	24	7/32	0.010	0.25	0.032	0.81	0.225	5.72	26.0	16.5	1	28.6	51.4
C4173A	4	24	7/32	0.010	0.25	0.032	0.81	0.245	6.22	26.0	16.5	1	28.6	51.4
C4174A	5	24	7/32	0.010	0.25	0.032	0.81	0.265	6.73	26.0	16.5	1	28.6	51.4
C4175A	6	24	7/32	0.010	0.25	0.032	0.81	0.287	7.29	26.0	15.2	1	26.3	47.5
C4176A	7	24	7/32	0.010	0.25	0.032	0.81	0.287	7.29	26.0	15.2	1	26.3	47.5
C4177A	8	24	7/32	0.010	0.25	0.032	0.81	0.309	7.85	26.0	15.0	1	26.3	47.5
C4178A	9	24	7/32	0.010	0.25	0.032	0.81	0.331	8.41	26.0	15.0	1	26.3	47.5
C4179A	10	24	7/32	0.010	0.25	0.032	0.81	0.359	9.12	26.0	14.0	1	26.3	47.5
C4180A	15	24	7/32	0.010	0.25	0.032	0.81	0.410	10.41	26.0	13.8	1	26.3	47.5
C4181A	19	24	7/32	0.010	0.25	0.032	0.81	0.432	10.97	26.0	13.5	1	26.3	47.5
C4182A	25	24	7/32	0.010	0.25	0.032	0.81	0.505	12.83	26.0	12.7	1	26.3	47.5

*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 with Red	14	Green with White
2	Black with White	15	Green with Blue
3	Black with Green	16	Green with Yellow
4	Black with Blue	17	Green with Brown
5	Black with Yellow	18	Green with Orange
6	Black with Brown	19	White with Blue
7	Black with Orange	20	White with Yellow
8	Red with White	21	White with Brown
9	Red with Green	22	White with Orange
10	Red with Blue	23	Blue with Yellow
11	Red with Yellow	24	Blue with Brown
12	Red with Brown	25	Blue with Orange
13	Red with Orange		

Multi-Paired, Foil Shield

AWM Style 2464, CSA Type AWM I/II A/B, NEC/CEC Type CMG (CSA C/US)



Product Construction:

Conductor:

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

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:

- Computers
- Industrial equipment
- Data transmission
- Control circuits
- Suitable for EIA RS-232 applications
- Suggested voltage ratings: 300 or 600 volts

Features:

- Excellent electrical properties
- Superior shielding effectiveness
- 25% shield overlap provides excellent shielding efficiency
- Assists system designers in meeting FCC Docket 20780 demands
- Good flexibility

Compliances:

- AWM Style 2464 (CSA: 80°C, 300V)
- CSA Type AWM (105°C, 600V)
- CSA Certified CMG to harmonized standard UL444 and CSA 22.2 No. 214
- NEC/CEC Type CMG (CSA: 105°C, 300V)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet CSA 70,000 BTU Vertical Tray Flame Test
- Passes CSA FT4 Vertical Flame Test

Packaging:

- Please contact Customer Service for packaging and color options

CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL O.D.		NOMINAL DCR Ω/kft		NOMINAL CAP* pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	COND.	SHLD.	A	B
C4183A	1	22	7/30	0.010	0.25	0.032	0.81	0.169	4.29	15.0	18.0	44.8	80.7
C4184A	2	22	7/30	0.010	0.25	0.032	0.81	0.234	5.94	15.0	16.5	35.9	64.6
C4185A	3	22	7/30	0.010	0.25	0.032	0.81	0.246	6.25	15.0	16.5	30.9	55.7
C4186A	4	24	7/30	0.010	0.25	0.032	0.81	0.269	6.83	15.0	16.5	30.9	55.7
C4187A	5	22	7/30	0.010	0.25	0.032	0.81	0.294	7.47	15.0	16.5	30.9	55.7
C4188A	6	22	7/30	0.010	0.25	0.032	0.81	0.320	8.13	15.0	16.5	28.4	51.0
C4189A	9	22	7/30	0.010	0.25	0.032	0.81	0.367	9.32	15.0	16.5	28.4	51.0
C4190A	15	22	7/30	0.010	0.25	0.032	0.81	0.457	11.61	15.0	16.5	28.4	51.0

*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 with Red	9	Red with Green
2	Black with White	10	Red with Blue
3	Black with Green	11	Red with Yellow
4	Black with Blue	12	Red with Brown
5	Black with Yellow	13	Red with Orange
6	Black with Brown	14	Green with White
7	Black with Orange	15	Green with Blue
8	Red with White		



Multi-Paired, Foil Shield, Mid-Cap

NEC Type CMP (UL) c(UL)

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded fluoropolymer
- Color code: See chart below

Shield:

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

Jacket:

- Fluoropolymer, natural
- Temperature range: -40°C to +150°C
- Sequential footage marked to facilitate installation
- Includes ripcord

Applications:

- EIA RS-232 and RS-422 circuits
- Remote control circuits
- Process control and instrumentation
- Power-limited control circuits
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800 (UL: 150°C, 300V)
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Abrasion-, chemical- and water-resistant jacket

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.		NOM. CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C3214	2	24	7/32	0.010	0.25	0.010	0.25	0.150	3.81	17.0	30.0
C3215	3	24	7/32	0.010	0.25	0.010	0.25	0.177	4.50	15.0	27.0
C3216	4	24	7/32	0.010	0.25	0.010	0.25	0.201	5.11	15.0	27.0
C3217	4.5	24	7/32	0.010	0.25	0.010	0.25	0.214	5.18	15.0	27.0
C3218	6	24	7/32	0.010	0.25	0.010	0.25	0.239	6.07	14.0	25.0

*A - Capacitance between conductors

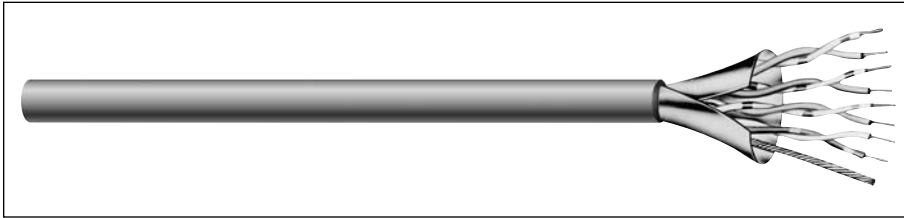
*B - Capacitance between one conductor and other conductors connected to shield

Color Code Chart

NO. OF PAIRS	COLOR
1	Black paired with Yellow
2	Red paired with Violet
3	Dark Blue paired with Brown
4	Orange paired with Dark Green
5	Pink paired with Gray
6	Tan paired with White
1C	Green with Yellow Stripe

Multi-Paired, Foil Shield, Lo-Cap®

NEC Type CMP (UL) c(UL)



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. JACKET THICKNESS		NOMINAL O.D.		NOM. CAP.*		IMPED. Ω NOM
				INCHES	mm	INCHES	mm	A	B	
C3028	2	24	7/32	0.010	0.25	0.159	4.04	15.0	27.00	94.0
C3029	3	24	7/32	0.010	0.25	0.183	4.65	14.0	25.00	107.0
C3030	4	24	7/32	0.010	0.25	0.246	6.25	14.0	25.00	107.0
C3031	6	24	7/32	0.012	0.30	0.285	7.24	13.0	23.00	115.0

*A – Capacitance between conductors

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

Color Code Chart

NO. OF PAIRS	COLOR
1	Black paired with Yellow
2	Red paired with Violet
3	Dark Blue paired with Brown
4	Orange paired with Dark Green
5	Pink paired with Gray
6	Tan paired with White

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded fluoropolymer
- Color code: See chart below

Shield:

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

Jacket:

- Fluoropolymer, natural
- Temperature range: -40°C to +150°C
- Sequential footage marked to facilitate installation
- Includes ripcord

Applications:

- EIA RS-232 and RS-422 circuits
- Remote control circuits
- Process control and instrumentation
- Low capacitance requirements
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800 (UL: 150°C, 300V)
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Abrasion-, chemical- and water-resistant jacket

Packaging:

- Please contact Customer Service for packaging and color options

CAROL BRAND



Designed to Meet
 NFPA 262 and CSA FT-6
 Steiner Tunnel Fire Tests
 for Plenum Applications

Underwriters Laboratories Inc.

General Cable

Multi-Paired, Overall Foil & TC Braid Shield, Lo-Cap®

NEC Type CMP (UL) c(UL)

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded foam FEP
- Color code: See chart below

Shield:

- 100% Flexfoil® aluminum/polyester foil with 25% overlap, minimum
- Tinned copper braid, 90% coverage

Jacket:

C8117

- FEP, red or as requested
- Temperature range: -40°C to +200°C

C8129

- Flexguard® PVC, natural
- Temperature range: -20°C to +75°C

Applications:

- Computer systems
- Remote control circuits
- Process control and instrumentation
- Suggested voltage rating: 300 volts

Compliances:

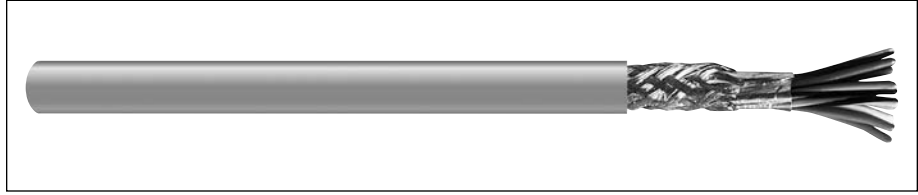
- NEC Article 800
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Fire-retardant, low-smoke jacket

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.		NOM. CAP.* pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C8117	1	24	7/32	0.026	0.66	0.014	0.36	0.208	5.28	12.0	22.0
C8129	2	24	7/32	0.019	0.48	0.017	0.43	0.280	6.93	12.0	22.0

*A – Capacitance between conductors

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

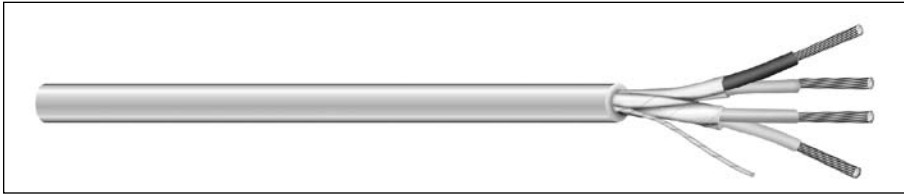
Color Code Chart

C8117 NO. OF PAIRS	COLOR
1	White/Blue paired with Blue/White

C8129 NO. OF PAIRS	COLOR
1	White/Blue paired with Blue/White
2	White/Orange paired with Orange/White

Multi-Paired, Individually Shielded

UL 2717, UL 2835, NEC Type CM (UL) c(UL) CMH or CMG



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
POLYPROPYLENE INSULATION – NEC TYPE CM(UL) c(UL) CMH											
C1352A	2	22	7/30	0.007	0.18	0.020	0.51	0.160	4.06	30.0	45.0
POLYPROPYLENE INSULATION – UL STYLE 2717, UL STYLE 2835, CM(UL) c(UL) CMH											
C1353A**	2	22	7/30	0.010	0.25	0.028	0.71	0.208	5.028	25.0	53.5
SR-PVC INSULATION – UL STYLE 2464, CM(UL) c(UL) CMG											
C7106A	2	20	7/28	0.010	0.25	0.041	1.04	0.305	7.75	46.0	82.0

*A – Capacitance between conductors

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

**Individually shielded with overall shield

Color Code Chart

NO. OF PAIRS	COLOR
1	Black/Red
2	Green/White

Product Construction:

Conductor:

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

Insulation:

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

Shield:

- Individually shielded pairs
- 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:

- Where total isolation of signal is required
- Computers
- Control circuits
- Industrial equipment
- Suggested voltage rating: 300 volts

Features:

- Excellent high frequency properties
- Mechanical durability

Compliances:

- NEC Article 800 Type CM (UL: 75°C, 300V)
- UL Style 2717 (UL: 80°C)
- UL Style 2835 (UL: 60°C, 30V)
- UL Style 2464 (UL: 80°C, 300V)
- CSA CMH (CSA: 60°C)
- CSA CMG (CSA: 60°C)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet CSA 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMH or CMG Flame Test

Packaging:

- Please contact Customer Service for packaging and color options



Underwriters Laboratories Inc.



Multi-Paired, Individually Shielded

CSA Type AWM I/II A/B, NEC/CEC Type CMG (CSA C/US)

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded PVC
- Color code: See chart below

Shield:

- Individually shielded pairs
- 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:

- Where total isolation of signal is required
- Computers
- Control circuits
- Industrial equipment
- Suggested voltage rating: 300 or 600 volts

Features:

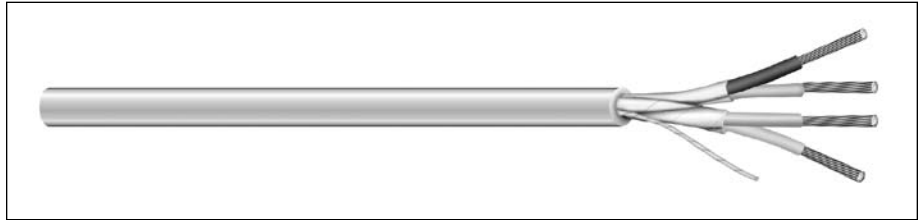
- Excellent high-frequency properties
- Mechanical durability

Compliances:

- CSA Type AWM (105°C, 600V)
- CSA Certified CMG to harmonized standard UL444 and CSA (22.2 No. 2)
- NEC/CEC Type CMG (CSA: 105°C, 300V)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet CSA 70,000 BTU Vertical Tray Flame Test
- Passes CSA FT4 Vertical Flame Test

Packaging:

- Please contact Customer Service for packaging and color options



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL O.D.		NOMINAL DCR Ω/kft		NOMINAL CAP* pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	COND.	SHLD.	A	B
C4203A	2	22	7/30	0.007	0.18	0.020	0.51	0.160	4.06	16.6	7.2	67.0	121.0

*A – Capacitance between conductors

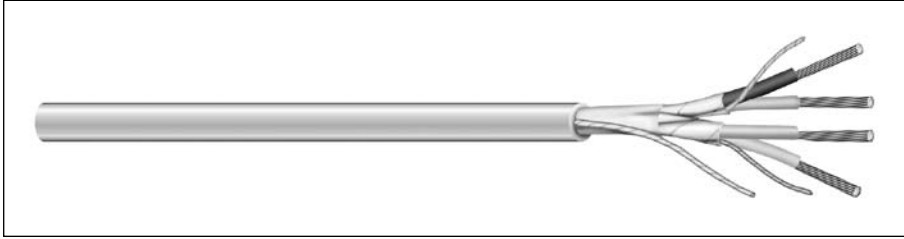
*B – Capacitance between one conductor and other conductors connected to shield

Color Code Chart

NO. OF PAIRS	COLOR
1	Black with Red
2	Green with White

Multi-Paired, Individually Shielded, Overall Shield

UL 2464, UL 2576, NEC Type CMR (UL) c(UL), CSA CMG



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C1350A	2	22	7/30	0.010	0.25	0.035	0.889	0.175 x 0.280	4.45 x 7.11	40	71.5

*A – Capacitance between conductors

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

Color Code Chart

NO. OF PAIRS	COLOR
1	Black/White
2	Black/Yellow

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded S-R PVC per UL 1061
- Color code: See chart below

Shield:

- Individually shielded pairs plus an overall foil shield and drain wire
- 100% Flexfoi® aluminum/polyester, 25% overlap, foil facing in
- Stranded tinned copper drain wire

Jacket:

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

Applications:

- Computer interconnections
- Data transmission
- Control circuits
- Industrial equipment control
- Suggested voltage rating: 300 volts

Features:

- Excellent high frequency properties
- Mechanical durability

Compliances:

- NEC Article 800 Type CMR (UL: 75°C)
- UL Style 2464 (UL: 80°C, 300V)
- UL Style 2576
- CSA CMG (CSA: 60°C)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

Packaging:

- Please contact Customer Service for packaging and color options



Underwriters Laboratories Inc.



Multi-Paired, Individually Foil Shielded

NEC Type CMP (UL) c(UL)

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded fluoropolymer
- Color code: See chart below

Shield:

- 100% Flexfoil® aluminum/polyester foil, each with 25% overlap, minimum
- Stranded tinned copper drain wire

Jacket:

- Fluoropolymer, red
- Temperature range: -20°C to +150°C
- Sequential footage marked to facilitate installation
- Includes ripcord

Applications:

- Point of sale systems
- Remote control circuits
- Process control and instrumentation
- Power-limited control circuits
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800 (UL: 150°C, 300V)
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Individually shielded pairs for excellent signal isolation
- Abrasion-, chemical- and water-resistant jacket

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.		NOM. CAP.**	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C3156*	2	22	7/30	0.006	0.15	0.010	0.25	0.147	3.73	35.0	63.0
C3157†	3	22	7/30	0.006	0.15	0.010	0.25	0.184	4.67	35.0	63.0

* Cabled on common axis to reduce diameter, foil out, common drain wire

** A – Capacitance between conductors

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

† 3 individually shielded pairs with separate drain wires

Color Code Chart

C3156 NO. OF PAIRS	COLOR
1	Black paired with Red
2	White paired with Green

C3157 NO. OF PAIRS	COLOR
1	Black paired with Red
2	Black paired with White
3	Black paired with Green

Multi-Paired, Individually Foil Shielded

NEC Type CMP (UL) c(UL)



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM. CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C8134	2	24	7/32	0.019	0.48	0.015	0.38	0.255	7.48	35.0	76.0
C8105	2	22	7/30	0.006	0.15	0.014	0.36	0.186	4.72	43.0	75.0
C8131	3	22	7/30	0.010	0.25	0.018	0.46	0.237	6.02	35.0	76.0
C8133	6	22	7/30	0.010	0.25	0.018	0.45	0.314	7.98	35.0	76.0

*A - Capacitance between conductors

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

Color Code Chart

C8105 NO. OF PAIRS	COLOR
1	Black paired with Red
2	White paired with Green

C8131 NO. OF PAIRS	COLOR
1	Black paired with Red
2	Black paired with White
3	Black paired with Green

C8133 NO. OF PAIRS	COLOR
1	Black paired with Red
2	Black paired with White
3	Black paired with Green
4	Black paired with Blue
5	Black paired with Yellow
6	Black paired with Brown

C8134 NO. OF PAIRS	COLOR
1	White/Blue paired with Blue/White
2	White/Orange paired with Orange/White

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded FEP or foamed FEP
- Color code: See chart below

Pair Shield:

- 100% Flexfoil® aluminum/polyester foil, with 25% overlap, minimum
- Individually shielded pairs with stranded tinned copper drain wire

Jacket:

- Flexguard® PVC, natural
- Temperature range: -20°C to +75°C

Applications:

- Computer systems
- Remote control circuits
- Process control and instrumentation
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Individually shielded pairs for excellent signal isolation
- Fire-retardant, low-smoke jacket

Packaging:

- Please contact Customer Service for packaging and color options



Designed to Meet
 NFPA 262 and CSA FT-6
 Steiner Tunnel Fire Tests
 for Plenum Applications

Underwriters Laboratories Inc.



Multi-Paired, Individually Foil Shielded

NEC Type CMP (UL) c(UL)

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded FEP
- Color code: See chart below

Pair Shield:

- 100% Flexfoil® aluminum/polyester foil, with 25% overlap, minimum
- Individually shielded pairs with stranded tinned copper drain wire

Jacket:

- FEP, red or as requested
- Temperature range: -40°C to +200°C

Applications:

- Computer systems
- Remote control circuits
- Process control and instrumentation
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Individually shielded pairs for excellent signal isolation
- Fire-retardant, low-smoke jacket

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.		NOM. CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C8112	2	22	7/30	0.006	0.15	0.014	0.36	0.186	4.72	35.0	65.0
C8132	6	22	7/30	0.010	0.25	0.015	0.38	0.309	7.85	30.0	65.0

*A - Capacitance between conductors

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

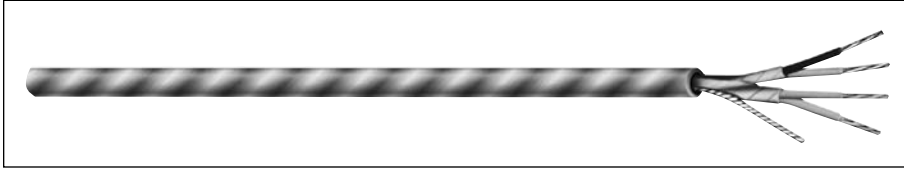
Color Code Chart

C8112 NO. OF PAIRS	COLOR
1	Black paired with Red
2	White paired with Green

C8132 NO. OF PAIRS	COLOR
1	Black paired with Red
2	Black paired with White
3	Black paired with Green
4	Black paired with Blue
5	Black paired with Yellow
6	Black paired with Brown

Multi-Paired, Individually Foil Shielded

NEC Type CMP (UL) c(UL)



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM. CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C8128	2	24	7/32	0.019	0.48	0.018	0.46	0.261	6.63	12.5	22.0

*A – Capacitance between conductors

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

Color Code Chart

NO. OF PAIRS	COLOR
1	White/Blue paired with Blue/White
2	White/Orange paired with Orange/White

Product Construction:

Conductor:

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

Insulation:

- Premium-grade, color-coded foam FEP
- Color code: See chart below

Pair Shield:

- 100% Flexfoil® aluminum/polyester foil with 25% overlap, minimum
- Individually shielded pairs with stranded tinned copper drain wire

Jacket:

- PVDF, gray or as requested
- Temperature range: -40°C to +150°C

Applications:

- Computer systems
- Remote control circuits
- Process control and instrumentation
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 800
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

Features:

- Individually shielded pairs for excellent signal isolation
- Fire-retardant, low-smoke jacket

Packaging:

- Please contact Customer Service for packaging and color options



Designed to Meet
 NFPA 262 and CSA FT-6
 Steiner Tunnel Fire Tests
 for Plenum Applications
 Underwriters Laboratories Inc.



Power-Limited Tray Cable, Individually Shielded

UL 2464, NEC Type PLTC AND CSA CMG

Product Construction:

Conductor:

- 22 or 18 AWG fully annealed stranded tinned copper per ASTM B-33
- Twisted pairs

Insulation:

- Premium-grade, color-coded PVC
- Color code: Each pair black and red, numbered at one-inch intervals

Shield:

- Pairs are 100% individually shielded with Flexfoil® aluminum/polyester, foil facing in
- Stranded tinned copper drain wire each pair

Jacket:

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

Applications:

- Power-limited circuits
- Intercom systems
- Business machines
- Cash registers
- Computer interconnects
- Suitably marked for appropriate tray cable installations
- Burglar alarms
- Suggested voltage rating: 300 volts

Features:

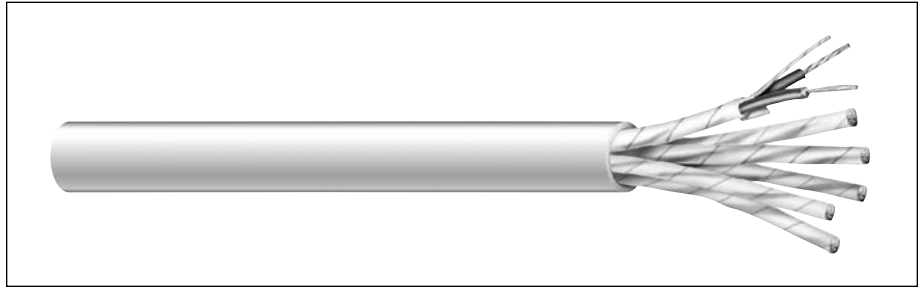
- Superior temperature characteristics
- Robust, highly durable
- Sunlight-resistant jacket

Compliances:

- NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
- UL Style 2464 (UL: 80°C)
- CSA CMG (CSA: 60°C)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG 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 CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C0570A	2	22	7/30	0.016	0.41	0.042	1.07	0.327	8.31	38.5	69.5
C0571A	3	22	7/30	0.015	0.41	0.042	1.07	0.345	8.76	38.5	69.5
C0572A	4	22	7/30	0.015	0.41	0.042	1.07	0.378	9.60	38.5	69.5
C0573A	6	22	7/30	0.015	0.41	0.053	1.35	0.469	11.91	38.5	69.5
C0574A	9	22	7/30	0.015	0.41	0.053	1.35	0.542	13.77	38.5	69.5
C0575A	11	22	7/30	0.015	0.41	0.053	1.35	0.589	14.96	38.5	69.5
C0584A	2	18	16/30	0.016	0.41	0.042	1.07	0.380	9.65	50.5	91.0
C0585A	3	18	16/30	0.016	0.41	0.053	1.35	0.437	11.10	50.5	91.0
C0586A	4	18	16/30	0.016	0.41	0.053	1.35	0.478	12.14	50.5	91.0
C0587A	6	18	16/30	0.016	0.41	0.053	1.35	0.566	14.38	50.5	91.0
C0588A	9	18	16/30	0.016	0.41	0.063	1.60	0.679	17.25	50.5	91.0
C0589A	11	18	16/30	0.016	0.41	0.063	1.60	0.738	18.75	50.5	91.0
C0590A	15	18	16/30	0.015	0.38	0.063	1.60	0.845	21.46	50.5	91.0

*A – Capacitance between conductors

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

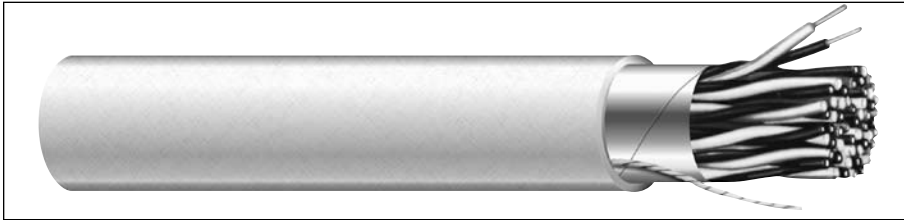
Color Code Chart

NO. OF PAIRS	COLOR
1 thru 15	Black Red

Each pair marked and numbered

Power-Limited Tray Cable, Foil Shield or Foil/Braid Shield

UL 2464, NEC Type PLTC/CM, CSA CMG



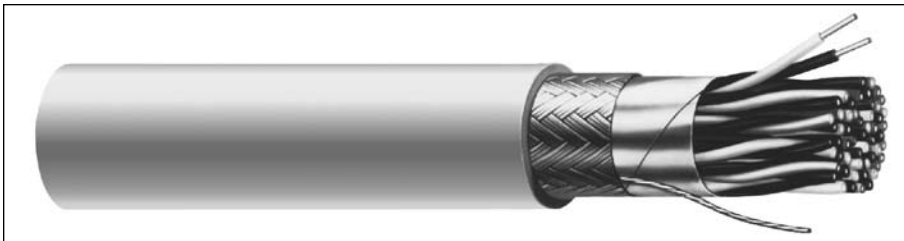
CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
PVC INSULATION — UL STYLE 2464, NEC TYPE PLT/CM, CSA CMG, 105°C											
C0550A	2	22	7/.0096	0.015	0.38	0.042	1.07	0.294	7.47	32.0	57.0
C0551A	3	22	7/.0096	0.015	0.38	0.042	1.07	0.309	7.85	29.0	52.2
C0552A	4	22	7/.0096	0.015	0.38	0.042	1.07	0.337	8.56	29.0	52.2
C0553A	6	22	7/.0096	0.015	0.38	0.042	1.35	0.418	10.62	26.5	47.7
C0554A	9	22	7/.0096	0.015	0.38	0.042	1.35	0.480	12.19	26.5	47.7
C0555A	11	22	7/30	0.015	0.38	0.053	1.35	0.520	13.21	27.0	48.5
C0556A	15	22	7/30	0.015	0.38	0.053	1.35	0.592	15.04	27.0	48.5
C0560A	2	18	16/30	0.016	0.41	0.042	1.07	0.314	7.98	40.0	72.0
C0561A	3	18	16/30	0.016	0.41	0.042	1.35	0.403	10.24	33.5	60.3
C0562A	4	18	16/30	0.016	0.41	0.042	1.35	0.440	11.18	33.5	60.3
C0563A	6	18	16/30	0.016	0.41	0.042	1.35	0.519	13.18	30.5	54.9
C0564A	9	18	16/30	0.016	0.41	0.042	1.60	0.622	15.80	30.5	54.9
C0566A	15	18	16/30	0.016	0.41	0.042	1.60	0.622	15.80	30.5	54.9

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

Color Code Chart

NO. OF PAIRS	COLOR
1 thru 9	Black/Red

Each pair marked and numbered



LO-CAP® DATACOM COLOR CODE WITH 65% TINNED COPPER BRAID

CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL CAP.*	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
FOAMED POLYETHYLENE INSULATION — NEC TYPE PLTC/CM, CEC CM c(UL), 60°C											
C7112A	1	22	7/.0096	0.024	0.61	0.037	0.94	0.261	6.63	11.5	20.5
C7114A	2	22	7/.0096	0.017	0.43	0.042	1.07	0.343	8.71	11.0	19.6
C7116A	3	22	7/.0096	0.015	0.38	0.042	1.07	0.344	8.74	11.0	19.6

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

Color Code Chart

NO. OF PAIRS	COLOR
1	White/Blue Stripe and Blue/White Stripe
2	White/Orange Stripe and Orange/White Stripe
3	White/Green Stripe and Green/White Stripe

Product Construction:

Conductor:

- 22 or 18 AWG fully annealed stranded tinned copper per ASTM B-33
- Twisted pairs

Insulation:

- Premium-grade, color-coded PVC or FMPE
- Color code: See chart below

Shield:

- 100% Flexfoil® aluminum/polyester, 25% overlap, foil facing out
- Stranded tinned copper drain wire
- 65% tinned copper braid (C7101A, C7103A and C7107A only)

Jacket:

- PVC, gray or black
- Temperature range: -20°C to +60°C or +105°C

Applications:

- Power-limited circuits
- Intercom systems
- Business machines
- Computer interconnects
- Suitably marked for appropriate tray cable installations
- Petrochemical control systems
- Burglar alarms
- Suggested voltage rating: 300 volts

Features:

- Superior temperature characteristics
- Robust, highly durable
- Sunlight-resistant jacket

Compliances:

- NEC Article 725 Power-Limited Tray Cable (UL: 105°C or 60°C, 300V)
- NEC Article 800 Communications Cable (UL: 105°C or 60°C, 300V)
- †UL Style 2464 (UL: 80°C, 300V)
- CSA CMG (CSA: 60°C) or CM c(UL)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA CMG Flame Test

Packaging:

- Please contact Customer Service for packaging and color options

† UL Style 2464 only available on PVC insulation constructions



Designed to Meet UL Vertical Tray Flame Test

Underwriters Laboratories Inc.

