

**Security and Alarm Cables**

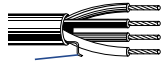
## Commercial Applications Unshielded



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Numbered and Color Coded • Rip Cord****Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	IEC 60754-2						0.76 mm 22 AWG (7x30) BC	0.049	1.25	Unshielded		see chart below
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Rip Cord

<b>4500UE</b>	2 CDR	328 1640	100 500	3.1 15.4	1.4 7.0						0.130	3.30
<b>4501UE</b>	3 CDR	328 1640	100 500	3.1 15.4	1.4 7.0						0.130	3.30
<b>4502UE</b>	4 CDR	328 1640	100 500	5.3 26.0	2.4 11.8						0.154	3.90
<b>4504UE</b>	6 CDR	328 1640	100 500	7.3 36.2	3.3 16.4						0.177	4.50
<b>4506UE</b>	8 CDR	328 1640	100 500	8.8 43.7	4.0 19.8						0.193	4.90
<b>4509UE</b>	12 CDR	328 1640	100 500	13.4 66.8	6.1 30.3						0.232	5.90

BC = Bare Copper • DCR = DC resistance

**Color Code**

Cond. No.	Color	Cond. No.	Color
1	Black	7	Orange
2	Red	8	Yellow
3	White	9	Purple
4	Green	10	Grey
5	Brown	11	Pink
6	Blue	12	Tan

## Security and Alarm Cables

### Commercial Applications Unshielded

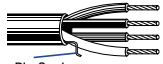


De- scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**20 AWG • Stranded (7x28) 1.0 mm Bare Copper • Numbered and Color Coded PVC Jackets • Rip Cord**

**PVC Insulation • Grey PVC Jacket**

300V  
75°C  
NEC:  
CMR  
CEC:  
CMF FT4  
0.96 mm  
20 AWG  
(7x28) BC  
0.048 1.21 Unshielded see chart below

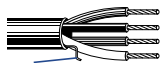


Rip Cord

<b>5400UE</b>	2 CDR	C-500 U-1000 1000	C-152 U-305 305	6.0 13.0 13.0	2.7 5.9 5.9						0.142	3.61	
<b>5401UE</b>	3 CDR	500 U-1000 1000	152 U-305 305	9.0 18.1 18.1	4.1 8.2 8.2						0.150	3.81	
<b>5402UE</b>	4 CDR	C-500 U-1000 1000	C-152 U-305 305	10.6 23.1 23.1	4.8 10.5 10.5						0.165	4.19	
<b>5403UE</b>	5 CDR	U-1000 1000	U-305 305	26.9 28.0	12.2 12.7						0.181	4.60	
<b>5405UE</b>	7 CDR	500 1000	152 305	19.0 40.1	8.6 18.2						0.198	5.03	
<b>5406UE</b>	8 CDR	U-1000 1000	U-305 305	41.0 43.0	18.6 19.5						0.215	5.46	
<b>5407UE</b>	9 CDR	1000	305	48.1	21.8						0.233	5.92	
<b>5408UE</b>	10 CDR	1000	305	53.1	24.1						0.254	6.45	
<b>5409UE</b>	12 CDR	1000	305	61.9	28.1						0.262	6.65	
<b>5408UE</b>	20 CDR	1000	305	110.0	49.9						0.347	8.81	

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V  
75°C  
IEC 60754-2  
0.96 mm  
20 AWG  
(7x28) BC  
0.057 1.45 Unshielded see chart below



Rip Cord

<b>4400UE</b>	2 CDR	328 1640	100 500	3.7 18.7	1.7 8.5						0.142	3.60	
<b>4402UE</b>	4 CDR	328 1640	100 500	6.4 31.7	2.9 14.4						0.165	4.20	

BC = Bare Copper • DCR = DC resistance

**Color Code**

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey

Cond. No.	Color
11	Pink
12	Tan
13	White/Black
14	White/Red
15	White/Green
16	White/Orange
17	White/Blue
18	White/Brown
19	White/Yellow
20	White/Purple

## Security and Alarm Cables

### Commercial Applications Unshielded

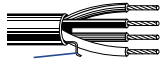


De- scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**18 AWG • Stranded (7x26) 1.2 mm Bare Copper • Numbered and Color Coded • Rip Cord**

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	IEC 60754-2		1.22 mm 18 AWG (7x26) BC	0.068	1.72	Unshielded	see chart below
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Rip Cord

<b>4300UE</b>	2 CDR	328 1640	100 500	6.0 29.3	2.7 13.3		0.161	4.10
<b>4301UE</b>	3 CDR	328 1640	100 500	7.7 38.4	3.5 17.4		0.161	4.10
<b>4302UE</b>	4 CDR	328 1640	100 500	10.1 50.7	4.6 23.0		0.189	4.80
<b>4303UE</b>	5 CDR	328 1640	100 500	12.1 60.4	5.5 27.4		0.209	5.30
<b>4304UE</b>	6 CDR	328 1640	100 500	15.0 74.5	6.8 33.8		0.224	5.70
<b>4306UE</b>	8 CDR	328 1640	100 500	18.5 92.6	8.4 42.0		0.248	6.30
<b>4308UE</b>	10 CDR	328 1640	100 500	22.9 114.9	10.4 52.1		0.295	7.50
<b>4309UE</b>	12 CDR	328 1640	100 500	27.1 135.8	12.3 61.6		0.315	8.00

**16 AWG • Stranded (19x29) 1.5 mm Bare Copper • Numbered and Color Coded • Rip Cord**

**PVC Insulation • Grey PVC Jacket**

300V 75°C	NEC: CMR CEC: CMG FT4		1.47 mm 16 AWG (19x29) BC	0.068	1.72	Unshielded	see chart below
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Rip Cord

<b>5200UE</b>	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.5 13.0 12.6 24.0 25.1	5.2 5.9 5.7 10.9 11.4		0.184	4.67
<b>5201UE</b>	3 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	18.5 18.1 35.1 38.1	8.4 8.2 15.9 17.3		0.196	4.98
<b>5202UE</b>	4 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	23.6 22.9 45.0 47.0	10.7 10.4 20.4 21.3		0.216	5.49
<b>5205UE</b>	7 CDR	1000	305	77.2	35.0		0.261	6.63

BC = Bare Copper • DCR = DC resistance

#### Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green

Cond. No.	Color
5	Brown
6	Blue
7	Orange
8	Yellow

Cond. No.	Color
9	Purple
10	Grey
11	Pink
12	Tan



For more information, contact Belden Technical Support +31-77-3875-414 • www.belden-emea.com

**Security and Alarm Cables**

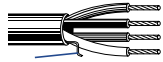
## Commercial Applications Unshielded



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**16 AWG • Stranded (19x29) 1.5 mm Bare Copper • Numbered and Color Coded • Rip Cord****Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	IEC 60754-2	1.47 mm 16 AWG (19x29) BC	0.077	1.95	Unshielded
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Rip Cord

<b>4200UE</b>	2 CDR	328 1640	100 500	7.5 37.3	3.4 16.9		0.185	4.70	Black, White
<b>4201UE</b>	3 CDR	328 1640	100 500	9.9 49.8	4.5 22.6		0.197	5.00	Black, White, Red
<b>4202UE</b>	4 CDR	328 1640	100 500	13.2 65.7	6.0 29.8		0.217	5.50	Black, White, Red, Green

**14 AWG • Stranded (19x27) 1.9 mm Bare Copper • Numbered and Color Coded • Rip Cord****Polyethylene Insulation • Grey PVC Jacket**

300V 75°C	NEC: CMR FPLR CL3R	1.85 mm 14 AWG (19x27) BC	0.087	2.21	Unshielded
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Rip Cord

<b>5100UE</b>	2 CDR	500 U-1000 1000	152 U-305 305	20.1 37.9 40.1	9.1 17.2 18.2		0.234	5.94	Black, White
Also available in Red for fire alarm (FPLR).									
<b>5101UE</b>	3 CDR	1000	305	56.2	25.5		0.249	6.32	Black, White, Red
<b>5102UE</b>	4 CDR	500 1000	152 305	38.6 73.2	17.5 33.2		0.276	7.01	Black, White, Red, Green

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	IEC 60754-2	1.85 mm 14 AWG (19x27) BC	0.099	2.52	Unshielded
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Rip Cord

<b>4100UE</b>	2 CDR	328 1640	100 500	11.5 57.8	5.2 26.2		0.232	5.90	Black, White
<b>4101UE</b>	3 CDR	328 1640	100 500	15.4 76.9	7.0 34.9		0.248	6.30	Black, White, Red
<b>4102UE</b>	4 CDR	328 1640	100 500	20.5 103.0	9.3 46.7		0.276	7.00	Black, White, Red, Green

BC = Bare Copper • DCR = DC resistance

**Security and Alarm Cables**

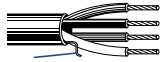
## Commercial Applications Unshielded



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**12 AWG • Stranded (19x25) 2.4 mm Bare Copper • Numbered and Color Coded • Rip Cord****Polyethylene Insulation • Grey PVC Jacket**

300V 75°C	NEC: CL3R						2.36 mm 12 AWG (19x25) BC	0.107	2.72	Unshielded			
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Rip Cord

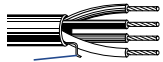
<b>5000UE</b>	2 CDR	500	152	29.1	13.2						0.268	6.81	Black, White
		1000	305	57.1	25.9								

Also available in Red for fire alarm (FPLR).

<b>5001UE</b>	3 CDR	1000	305	82.2	37.3						0.286	7.26	Black, White, Red
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**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 75°C	IEC 60754-2						2.36 mm 12 AWG (19x25) BC	0.118	3.00	Unshielded			
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Rip Cord

<b>4000UE</b>	2 CDR	328	100	16.5	7.5						0.268	6.80	Black, White
		1640	500	83.1	37.7								

<b>4001UE</b>	3 CDR	1640	500	375.2	170.2						0.287	7.30	Black, White, Red
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BC = Bare Copper • DCR = DC resistance

## Security and Alarm Cables

### Commercial Applications Shielded



De- scription	Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm <sup>2</sup>		inch	mm	

**24 AWG • Stranded (7x0.193) 0.6 mm Bare Copper • Mylar® Tape • Overall Alufoil • Color Coded**

**Thermoplastic M9 Insulation • White FRNC/LSNH Jacket** (Color Code: see chart below)

60/90V  
70°C

Overall  
Alufoil

- Cables for anti-theft installations
- Cables for detection of smokes and fires
- To be used in public areas  
(like banks, hospitals, big stores, hotels, theaters)



LiH (St) H

SEC0027	1	328	100	41.9	19.0	(7x0.193) BC	24	0.22		0.157	4.00
SEC0028	2	328	100	66.1	30.0	(7x0.193) BC	24	0.22		0.217	5.50
SEC0029	3	328	100	83.8	38.0	(7x0.193) BC	24	0.22		0.228	5.80
SEC0030	4	328	100	105.8	48.0	(7x0.193) BC	24	0.22		0.260	6.60
SEC0031	5	328	100	132.3	60.0	(7x0.193) BC	24	0.22		0.295	7.50
SEC0032	6	328	100	149.9	68.0	(7x0.193) BC	24	0.22		0.307	7.80
SEC0033	7	328	100	169.8	77.0	(7x0.193) BC	24	0.22		0.319	8.10
SEC0034	8	328	100	194.0	88.0	(7x0.193) BC	24	0.22		0.362	9.20
SEC0035	10	328	100	231.5	105.0	(7x0.193) BC	24	0.22		0.382	9.70
SEC0036	11	328	100	269.0	122.0	(7x0.193) BC	24	0.22		0.406	10.30
SEC0037	1/1	328	100	158.7	72.0	(7x0.193) BC	24	0.22 + 0.50		0.264	6.70
SEC0038	2/1	328	100	172.0	78.0	(7x0.193) BC	24	0.22 + 0.50		0.272	6.90
SEC0039	3/1	328	100	97.0	44.0	(7x0.193) BC	24	0.22 + 0.50		0.205	5.20
SEC0040	4/1	328	100	114.6	52.0	(7x0.193) BC	24	0.22 + 0.50		0.220	5.60
SEC0041	5/1	328	100	132.3	60.0	(7x0.193) BC	24	0.22 + 0.50		0.244	6.20
SEC0042	1/1	328	100	97.0	44.0	(7x0.193) BC	24	0.22 + 0.75		0.260	6.60
SEC0043	2/1	328	100	119.0	54.0	(7x0.193) BC	24	0.22 + 0.75		0.283	7.20
SEC0044	3/1	328	100	145.5	66.0	(7x0.193) BC	24	0.22 + 0.75		0.307	7.80
SEC0045	4/1	328	100	158.7	72.0	(7x0.193) BC	24	0.22 + 0.75		0.323	8.20
SEC0046	5/1	328	100	172.0	78.0	(7x0.193) BC	24	0.22 + 0.75		0.331	8.40

BC = Bare Copper • DCR = DC resistance

Mylar® is a DuPont trademark.

### Color Code

Pair No.	Color
1	Red, Black
2	White/Blue, Blue
3	White/Orange, Orange
4	White/Green, Green
5	White/Brown, Brown
6	White/Grey, Grey
7	Red/Blue, Blue
8	Red/Orange, Orange
9	Red/Green, Green
10	Red/Brown, Brown
11	Red/Grey, Grey

Pair No.	Color
12	Black/Blue, Blue
13	Black/Orange, Orange
14	Black/Green, Green
15	Black/Brown, Brown
16	Black/Grey, Grey
17	Violet/Blue, Blue
18	Violet/Orange, Orange
19	Violet/Green, Green
20	Violet/Brown, Brown
21	Violet/Grey, Grey

## Security and Alarm Cables

### Commercial Applications Shielded



De- scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded**

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	IEC 60754-2	0.76 mm 22 AWG (7x30) BC	0.049	1.25	Overall Beldfoil® + Drain Wire (24 AWG TC)	see chart below
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Shorting Fold

Part No.	Conductor	Length	Weight	Insulation	Shielding	Nominal OD
4500FE	2 CDR	328	100	4.0	1.8	0.130 3.30
		1640	500	19.6	8.9	
4501FE	3 CDR	328	100	4.6	2.1	0.138 3.50
		1640	500	23.1	10.5	
4502FE	4 CDR	328	100	6.0	2.7	0.154 3.90
		1640	500	29.3	13.3	
4504FE	6 CDR	328	100	7.7	3.5	0.181 4.60
		1640	500	38.6	17.5	
4506FE	8 CDR	328	100	9.7	4.4	0.197 5.00
		1640	500	48.7	22.1	
4508FE	10 CDR	U-500	U-152	10.8	4.9	0.197 5.00
		1000	305	53.6	24.3	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

### Color Code

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey

## Security and Alarm Cables

### Commercial Applications Shielded

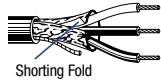


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**20 AWG • Stranded (7x28) 1.0 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded**

**PVC Insulation • Grey PVC Jacket**

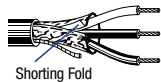
<b>300V 75°C</b>	NEC: CMR CEC: CMG FT4						0.96 mm 20 AWG (7x28) BC	0.048	1.21	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below	
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<b>5400FE</b>	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	7.9 9.0 8.6 15.9 15.9	3.6 4.1 3.9 7.2 7.2						0.145	3.68	
<b>5401FE</b>	3 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	11.0 10.6 20.9 20.9	5.0 4.8 9.5 9.5						0.153	3.89	
<b>5402FE</b>	4 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.9 12.6 13.0 24.9 26.0	5.4 5.7 5.9 11.3 11.8						0.168	4.27	
<b>5403FE</b>	5 CDR	U-1000 1000	U-305 305	30.0 30.0	13.6 13.6						0.184	4.67	
<b>5405FE</b>	7 CDR	U-1000 1000	U-305 305	39.0 40.1	17.7 18.2						0.201	5.11	
<b>5407FE</b>	9 CDR	1000	305	51.1	23.2						0.236	5.99	

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

<b>300V 70°C</b>	IEC 60754-2						0.96 mm 20 AWG (7x28) BC	0.057	1.45	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below	
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<b>4400FE</b>	2 CDR	328 1640	100 500	4.6 23.6	2.1 10.7						0.146	3.70	
<b>4401FE</b>	3 CDR	328 1640	100 500	6.0 30.0	2.7 13.6						0.154	3.90	
<b>4402FE</b>	4 CDR	328 1640	100 500	7.5 37.9	3.4 17.2						0.169	4.30	
<b>4403FE</b>	5 CDR	328 1640	100 500	4.6 23.6	2.1 10.7						0.185	4.70	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

**Color Code**

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown

**Color Code**

Cond. No.	Color
6	Blue
7	Orange
8	Yellow
9	Purple



**Security and Alarm Cables**

Commercial Applications Shielded



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
<b>18 AWG • Stranded (7x26) 1.2 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded</b>													
<b>Polyethylene Insulation • Grey FRNC/LSNH Jacket</b>													
<b>300V 70°C</b>		IEC 60754-2					1.22 mm 18 AWG (7x26) BC	0.068	1.72	Overall Beldfoil® + Drain Wire (24 AWG TC)			see chart below
 Shorting Fold													
	<b>4300FE</b>	2 CDR	328 1640	100 500	7.1 35.5	3.2 16.1					0.165	4.20	
	<b>4301FE</b>	3 CDR	328 1640	100 500	9.3 45.9	4.2 20.8					0.177	4.50	
	<b>4302FE</b>	4 CDR	328 1640	100 500	11.7 58.2	5.3 26.4					0.193	4.90	
	<b>4303FE</b>	5 CDR	328 1640	100 500	12.8 63.7	5.8 28.9					0.193	4.90	
	<b>4304FE</b>	6 CDR	328 1640	100 500	16.5 82.7	7.5 37.5					0.228	5.80	
	<b>4306FE</b>	8 CDR	328 1640	100 500	20.5 102.7	9.3 46.6					0.272	6.90	
	<b>4307FE</b>	9 CDR	328 1640	100 500	22.0 110.2	10.0 50.0					0.283	7.20	

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

**Color Code**

Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple

**Security and Alarm Cables**  
Commercial Applications Shielded

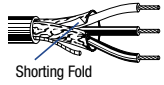


De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**16 AWG • Stranded (19x29) 1.5 mm Bare Copper • Beldfoil® Shield • 18 AWG Tinned Copper Drain Wire • Numbered and Color Coded**

**PVC Insulation • Grey PVC Jacket**

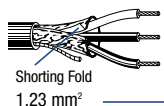
300V 75°C	NEC: CMR CEC: CMG FT4						1.47 mm 16 AWG (19x29) BC	0.068	1.72	Overall Beldfoil® + Drain Wire (18 AWG TC)			
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<b>5200FE</b>	2 CDR	U-500	U-152	16.5	7.5						0.188	4.78	Black, Red	
		500	152	16.5	7.5									
		U-1000	U-305	31.1	14.1									
		1000	305	32.0	14.5									
Also available in White.														
<b>5201FE</b>	3 CDR	500	152	21.6	9.8						0.200	5.08	Black, Red, White	
		U-1000	U-305	43.0	19.5									
		1000	305	42.1	19.1									
<b>5202FE</b>	4 CDR	500	152	26.5	12.0						0.220	5.59	Black, Red, White, Green	
		1000	305	54.0	24.5									

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	IEC 60754-2						1.47 mm 16 AWG (19x29) BC	0.077	1.95	Overall Beldfoil® + Drain Wire (18 AWG TC)			
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<b>4200FE</b>	2 CDR	328	100	9.7	4.4						0.189	4.80	Black, Red
		1640	500	48.1	21.8								
<b>4201FE</b>	3 CDR	328	100	11.9	5.4						0.201	5.10	Black, Red, White
		1640	500	59.5	27.0								
<b>4202FE</b>	4 CDR	328	100	15.2	6.9						0.220	5.60	Black, Red, White, Green
		1640	500	75.8	34.4								

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

## Security and Alarm Cables

### Commercial Applications Shielded



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
<b>14 AWG • Stranded (19x27) 1.9 mm Bare Copper • Beldfoil® Shield • 16 AWG Tinned Copper Drain Wire</b>													
<b>PVC Insulation • Grey PVC Jacket</b>													
300V 75°C		NEC: CL3R					1.85 mm 14 AWG (19x27) BC	0.087	2.21	Overall Beldfoil® + Drain Wire (16 AWG TC)			
													
	<b>5100FE</b>	2 CDR	500	152	28.4	12.9					0.238	6.05	Black, White
			U-1000 1000	U-305 305	48.9 51.1	22.2 23.2							
	<b>5101FE</b>	3 CDR	1000	305	66.1	30.0					0.253	6.43	Black, White, Red
<b>Polyethylene Insulation • Grey FRNC/LSNH Jacket</b>													
300V 70°C	<b>4100FE</b>	IEC 60754-2	328 1640	100 500	14.3 71.6	6.5 32.5	1.85 mm 14 AWG (19x27) BC	0.099	2.52	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.240	6.10	Black, White
													
		2 CDR											
<b>12 AWG • Stranded (19x25) 2.4 mm Bare Copper • Beldfoil® Shield • 16 AWG Tinned Copper Drain Wire</b>													
<b>PVC Insulation • Grey PVC Jacket</b>													
300V 75°C	<b>5000FE</b>	NEC: CL3R	500 1000	152 305	36.6 67.2	16.6 30.5	2.36 mm 12 AWG (19x25) BC	0.107	2.72	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.272	6.91	Black, White
													
		2 CDR											
<b>Polyethylene Insulation • Grey FRNC/LSNH Jacket</b>													
300V 70°C	<b>4000FE</b>	IEC 60754-2	328 1640	100 500	19.2 95.7	8.7 43.4	2.36 mm 12 AWG (19x25) BC	0.118	3.00	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.272	6.90	Black, White
													
		2 CDR											

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

## Security and Alarm Cables

### Commercial Applications Unshielded Twisted Pairs

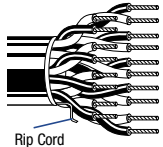


De- scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Twisted Pair • Numbered and Color Coded • Rip Cord**

**PVC Insulation • Grey PVC Jacket**

300V 75°C	NEC: CMR CEC: CM FT4						0.76 mm 22 AWG (7x30) BC	0.040	1.01	Unshielded		see chart below
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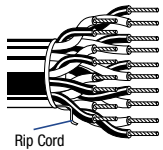


<b>5541UE</b>	2-Pair	U-1000 1000	U-305 305	18.1 19.0	8.2 8.6						0.206	5.23
<b>5542UE</b>	3-Pair	U-500 U-1000 1000	U-152 U-305 305	13.0 24.0 25.1	5.9 10.9 11.4						0.220	5.59
<b>5543UE</b>	4-Pair	U-1000 1000	U-305 305	32.0 32.0	14.5 14.5						0.243	6.17
<b>5547UE</b>	9-Pair	1000	305	70.1	31.8						0.334	8.48

**18 AWG • Stranded (7x26) 1.2 mm Bare Copper • Twisted Pair • Numbered and Color Coded • Rip Cord**

**PVC Insulation • Grey PVC Jacket**

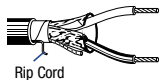
300V 75°C	NEC: CMR CEC: CM FT4						1.22 mm 18 AWG (7x26) BC	0.058	1.47	Unshielded		see chart below
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<b>5341UE</b>	2-Pair	U-1000 1000	U-305 305	34.0 36.2	15.4 16.4						0.266	6.76
<b>5342UE</b>	3-Pair	U-1000 1000	U-305 305	48.1 50.0	21.8 22.7						0.283	7.19
<b>5343UE</b>	4-Pair	1000	305	67.2	30.5						0.320	8.13
<b>5345UE</b>	6-Pair	1000	305	96.1	43.6						0.362	9.19
<b>5347UE</b>	9-Pair	1000	305	140.2	63.6						0.434	11.02

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 75°C	<b>4341UE</b>	IEC 60754-2	328 1640	100 500	10.6 53.1	4.8 24.1	1.22 mm 18 AWG (7x26) BC	0.058	1.47	Unshielded	0.264	6.70	see chart below
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2-Pair

BC = Bare Copper • DCR = DC resistance

**Color Code**

Pair No.	Color	Pair No.	Color	Pair No.	Color
1	Black, Red	4	Black, Blue	7	Black, Orange
2	Black, White	5	Black, Yellow	8	Black, White
3	Black, Green	6	Black, Brown	9	Black, Green

## Security and Alarm Cables

### Commercial Applications Shielded Twisted Pairs

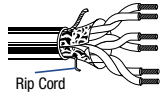


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**22 AWG** • Stranded (7x30) 0.8 mm BC • Twisted Pair • **Beldfoil®** Shield • 24 AWG TC Drain Wire • Numbered and Color Coded • Rip Cord

**PVC Insulation • Grey PVC Jacket**

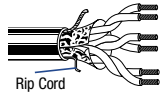
300V 75°C	NEC: CMR CEC: CM FT4						0.76 mm 22 AWG (7x30) BC	0.040	1.01	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below	
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<b>5541FE</b>	2-Pair	U-500 U-1000 1000	U-152 U-305 305	11.5 20.9 22.9	5.2 9.5 10.4							0.209	5.31
<b>5542FE</b>	3-Pair	U-1000 1000	U-305 305	27.1 29.1	12.3 13.2							0.223	5.66
<b>5543FE</b>	4-Pair	1000	305	34.0	15.4							0.246	6.25
<b>5545FE</b>	6-Pair	U-1000 1000	U-305 305	46.1 48.1	20.9 21.8							0.278	7.06

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C							0.76 mm 22 AWG (7x30) BC	0.049	1.25	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below	
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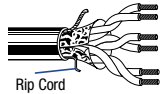


<b>4541FE</b>	2-Pair	328 1640	100 500	6.2 31.5	2.8 14.3							0.209	5.30
<b>4542FE</b>	3-Pair	328 1640	100 500	7.7 39.0	3.5 17.7							0.224	5.70
<b>4545FE</b>	6-Pair	328 1640	100 500	13.9 69.4	6.3 31.5							0.280	7.10

**20 AWG** • Stranded (7x28) 1.0 mm BC • Twisted Pair • **Beldfoil®** Shield • 24 AWG TC Drain Wire • Numbered and Color Coded • Rip Cord

**PVC Insulation • Grey PVC Jacket**

300V 75°C	NEC: CMR CEC: CM FT4						0.96 mm 20 AWG (7x28) BC	0.048	1.21	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below	
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<b>5441FE</b>	2-Pair	500 U-1000 1000	152 U-305 305	15.0 29.1 29.1	6.8 13.2 13.2							0.235	5.97
<b>5442FE</b>	3-Pair	U-1000 1000	U-305 305	37.9 37.9	17.2 17.2							0.252	6.40
<b>5445FE</b>	6-Pair	1000	305	72.1	32.7							0.323	8.20

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

**Color Code**

Pair No.	Color	Pair No.	Color
1	Black, Red	4	Black, Blue
2	Black, White	5	Black, Yellow
3	Black, Green	6	Black, Brown

## Security and Alarm Cables

### Commercial Applications Shielded Twisted Pairs



De- scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**20 AWG** • Stranded (7x28) 1.0 mm BC • Twisted Pair • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	IEC 60754-2						0.96 mm 20 AWG (7x28) BC	0.057	1.45	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below
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<b>4441FE</b>	2-Pair	328 1640	100 500	7.7 39.0	3.5 17.7						0.236	6.00
<b>4445FE</b>	6-Pair	328 1640	100 500	18.7 93.3	8.5 42.3						0.323	8.20

**18 AWG** • Stranded (7x26) 1.2 mm BC • Twisted Pair • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded

**PVC Insulation • Overall Grey PVC Jacket**

300V 75°C	NEC: CMR CEC: CM FT4						1.22 mm 18 AWG (7x26) BC	0.058	1.47	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below
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<b>5341FE</b>	2-Pair	500 U-1000 1000	152 U-305 305	20.9 39.9 42.1	9.5 18.1 19.1						0.270	6.86
<b>5342FE</b>	3-Pair	1000	305	52.0	23.6						0.275	6.99
<b>5343FE</b>	4-Pair	1000	305	70.1	31.8						0.318	8.08
<b>5345FE</b>	6-Pair	500 1000	152 305	52.7 103.2	23.9 46.8						0.373	9.47

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	IEC 60754-2						1.22 mm 18 AWG (7x26) BC	0.068	1.72	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below
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<b>4341FE</b>	2-Pair	328 1640	100 500	13.7 68.6	6.2 31.1						0.264	6.70
<b>4342FE</b>	3-Pair	1640	500	82.0	37.2						0.276	7.00
<b>4343FE</b>	4-Pair	1640	500	103.0	46.7						0.319	8.10
<b>4345FE</b>	6-Pair	1640	500	161.6	73.3						0.374	9.50

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

#### Color Code

Pair No.	Color
1	Black, Red
2	Black, White
3	Black, Green

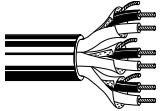
Pair No.	Color
4	Black, Blue
5	Black, Yellow
6	Black, Brown

**Security and Alarm Cables**

Commercial Applications Individually Shielded Twisted Pairs



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
<b>22 AWG • Stranded (7x30) 0.8 mm BC • Twisted Pair • Each Pair Beldfoil® Shielded • 24 AWG TC Drain Wire • Numbered and Color Coded</b>													
<b>PVC Insulation • Grey PVC Jacket</b>													
300V 75°C	<b>5543PE</b>	NEC: CMR CEC: CMG FT4	1000	305	55.1	25.0	0.76 mm 22 AWG (7x30) BC	0.040	1.01	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.303	7.70	see chart below



4-Pair

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

**Color Code**

Pair No.	Color
1	Black, Red
2	Black, White
3	Black, Green
4	Black, Blue

**Security and Alarm Cables**Commercial Applications, Individually Shielded Twisted Pairs  
plus Conductors

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**22 AWG** • Stranded (7x30) 0.8 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • With Additional Conductor(s) • Numbered and Color Coded

**PVC Insulation • Grey PVC Jacket**

300V 75°C		NEC: CMR CEC: CMG FT4					0.76 mm 22 AWG (7x30) BC	0.040	1.01	Individual Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
<b>5501GE</b>	1 STP +1/C	U-1000	U-305	16.1	7.3						0.171	4.34	Black & Red (shielded pair), White
<b>5502GE</b>	1 STP +2/C	U-500 U-1000 1000	U-152 U-305 305	9.9 19.0 19.0	4.5 8.6 8.6						0.186	4.72	Black & Red (shielded pair), White, Green
<b>5542GE</b>	1 STP +2/TP	U-1000	U-305	26.0	11.8						0.220	5.59	Black & Red (shielded pair), Black & Red, Black & Green pairs

**Polyethylene Insulation • Grey FRNC/LSNH Jacket**

300V 70°C	<b>4502GE</b>	IEC: 60754-2	328 1640	100 500	6.0 30.0	2.7 13.6	0.76 mm 22 AWG (7x30) BC	0.049	1.25	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.185	4.70	Black & Red (shielded pair), White, Green
 Shorting Fold													
	1 STP + 2/C												

**20 AWG** • Stranded (7x28) 1.0 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • With Additional Conductor(s) • Numbered and Color Coded

**PVC Insulation • Grey PVC Jacket**

300V 75°C		NEC: CMR CEC: CMG FT4					0.96 mm 20 AWG (7x28) BC	0.042	1.06	Individual Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
<b>5401GE</b>	1 STP +1/C	1000	305	22.9	10.4						0.196	4.98	Black & Red (shielded pair), White
<b>5402GE</b>	1 STP +2/C	U-1000	U-305	26.0	11.8						0.200	5.08	Black & Red (shielded pair), White, Green

**18 AWG** • Stranded (7x26) 1.2 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • With Additional Conductor(s) • Numbered and Color Coded

**PVC Insulation • Grey PVC Jacket**

300V 70°C	<b>5302GE</b>	NEC: CMR CEC: CMG FT4	1000	305	31.5	14.3	1.22 mm 18 AWG (7x26) BC	0.058	1.47	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.225	5.72	Black & Red (shielded pair), White
 Shorting Fold													
	1 STP + 2/C												

TC = Tinned Copper • BC = Bare Copper • STP = Shielded Twisted Pair(s) • /C = Conductor(s) • DCR = DC resistance



# Security Coaxial Cables

Surveillance and CCTV Applications



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

**H109A • Solid 1.0 mm Bare Copper • Copper-foil • 55 % Bare Copper Braid**

<b>5-Cell Gas-Injected Polyethylene Insulation • Black PVC Jacket</b>																			
80°C	<b>H109A00</b>	328	100	10.4	4.7	1.0 mm	0.185	4.70	Cu-foil + 55% BC Braid 5.2 mm	0.262	6.65	75	80%	17.1	56.0	5	0.5	1.6	
		820	250	37.9	17.2	Solid BC		50								1.4	4.6		
		1640	500	75.7	34.4	41.0 /km*		100								2.0	6.5		
						26.0 /km**		230								3.0	9.8		
																	400	4.5	14.8
																	800	5.9	19.2
																	860	5.9	19.5
																	1000	6.6	21.5
1.0/4.8		Return loss at					5-470 MHz: 23 dB	Screening attenuation at 30-1000 MHz: 75 dB											
		470-862 MHz: 20 dB					Transfer impedance at 5-30 MHz: 15.0 m /m												
		862-2150 MHz: 18 dB					Pulling Tension: 55 N												

**H125A • Solid 1.0 mm Bare Copper • Duofoil® • 40 % Tinned Copper Braid**

<b>Gas-Injected Polyethylene Insulation • PVC Jacket (Brown, Black and White)</b>																			
80°C	<b>H125A00</b>	328	100	10.4	4.7	1.0 mm	0.189	4.80	Duofoil® + 40% TC Braid 27.0 /km***	0.268	6.80	75	81%	16.8	55.0	5	0.5	1.8	
		820	250	26.0	11.8	Solid BC		50								1.4	4.7		
		1640	500	51.8	23.5	50.0 /km*		100								2.0	6.5		
						23.0 /km**		230								3.0	9.8		
																	400	3.9	12.9
																	800	5.7	18.6
																	860	5.9	19.3
																	1000	6.4	20.9
1.0/4.8		Return loss at					5-470 MHz: 23 dB	Screening attenuation at 30-1000 MHz: 75 dB											
		470-862 MHz: 20 dB					Transfer impedance at 5-30 MHz: 40.0 m /m												
		862-2150 MHz: 18 dB					Pulling Tension: 55 N												

**H121A • Solid 0.8 mm Bare Copper • Duofoil® • 40 % Tinned Copper Braid**

<b>Gas-Injected Polyethylene Insulation • PVC Jacket (Brown, Black and White)</b>																			
80°C	<b>H121A00</b>	328	100	15.1	6.9	0.8 mm	0.138	3.50	Duofoil® + 40% TC Braid 4.1 mm	0.197	5.00	75	82%	16.5	54.0	5	0.5	1.7	
		820	250	37.9	17.2	Solid BC		50								1.8	5.9		
		1640	500	75.7	34.4	75.0 /km*		100								2.0	8.1		
						35.0 /km**		230								3.7	12.1		
																	400	4.8	15.9
																	800	6.9	22.7
																	860	7.2	23.6
																	1000	7.8	25.6
1.0/4.8		Return loss at					5-470 MHz: 20 dB	Screening attenuation at 30-1000 MHz: 75 dB											
		470-862 MHz: 18 dB					Transfer impedance at 5-30 MHz: 40.0 m /m												
		862-2150 MHz: 16 dB					Pulling Tension: 55 N												

\* DC loop resistance • \*\* DC resistance inner conductor • \*\*\* DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® see technical information page 23.13.

### Security Coaxial Cables

Surveillance and CCTV Applications

Shielded or Flooded for Use in Underground Ducts



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation			
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m	
<b>25 AWG • Solid 0.5 mm Bare Copper • 94 % Bare Copper Braid</b>																				
<b>Gas-Injected Foam PE Insulation • PVC Jacket (Brown, Red, Yellow, Green, Blue, White and Black)</b>																				
75°C	<b>573945</b>	NEC: CM CEC: CM FT1	U-1000 1000	U-305 305	15.0 14.1	6.8 6.4	0.46 mm 25 AWG Solid BC 101.7 /km* 83.3 /km**	0.085	2.16	94% BC Braid 18.4 /km***	0.146	3.71	75	80%	16.9	55.4	1	0.5	1.5	
Mini RG-59																				
Nominal Delay: 4.167 ns/m										Pulling Tension: 125 N										
<b>Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket</b>																				
70°C	<b>473945</b>	IEC 60754-2	328 1640	100 500	4.6 23.1	2.1 10.5	0.46 mm 25 AWG Solid BC 101.7 /km* 83.3 /km**	0.085	2.16	95% BC Braid 18.4 /km***	0.146	3.70	75	80%	16.9	55.4	see above			
Mini RG-59																				
Nominal Delay: 4.167 ns/m										Pulling Tension: 125 N										
<b>22 AWG • Stranded (7x30) 0.8 mm Bare Copper • 95 % Bare Copper Braid</b>																				
<b>Gas-Injected Foam PE Insulation • Black PVC Jacket</b>																				
75°C	<b>551945</b>	NEC: CM CEC: CM FT1	U-1000 1000	U-305 305	33.1 30.0	15.0 13.6	0.76 mm 22 AWG (7x30) BC 49.2 /km* 40.7 /km**	0.140	3.56	95% BC Braid 8.5 /km***	0.232	5.89	75	78%	17.3	56.8	1	0.3	1.0	
RG-59																				
Nominal Delay: 4.265 ns/m										Pulling Tension: 218 N										
<b>Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket</b>																				
70°C	<b>451945</b>	IEC 60754-2	328 1640	100 500	8.2 41.2	3.7 18.7	0.76 mm 22 AWG (7x30) BC 49.2 /km* 40.7 /km**	0.140	3.56	95% BC Braid 8.5 /km***	0.232	5.90	75	78%	17.3	56.8	see above			
RG-59																				
Nominal Delay: 4.265 ns/m										Pulling Tension: 218 N										
<b>20 AWG • Solid 0.8 mm Bare Copper • 95 % Bare Copper Braid</b>																				
<b>Gas-Injected Foam PE Insulation • PVC Jacket (White or Black)</b>																				
75°C	<b>543945</b>	NEC: CM CEC: CM FT1	U-500 500	U-152 152	12.6 13.2	5.7 6.0	0.81 mm 20 AWG Solid BC 32.8 /km* 21.4 /km**	0.145	3.68	95% BC Braid 11.4 /km***	0.232	5.89	75	83%	16.3	53.5	1	0.3	1.0	
RG-59																				
Nominal Delay: 3.97 ns/m										Pulling Tension: 218 N										


\*DC loop resistance • \*\*DC resistance inner conductor • \*\*\* DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper

## Security Coaxial Cables


Surveillance and CCTV Applications


Shielded or Flooded for Use in Underground Ducts




De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m
<b>20 AWG • Solid 0.8 mm Bare Copper • 95 % Bare Copper Braid</b>																			
<b>Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket</b>																			
70°C	443945	IEC 60754-2	328 1640	100 500	10.6 52.5	4.8 23.8	0.81 mm 20 AWG Solid BC 32.8 /km* 21.4 /km**	0.145 3.68	3.68	95% BC Braid 11.4 /km***	0.232 5.90	5.90	75	83%	16.3 53.5	53.5	1 5 10 50 100 200 400 700 900 1000	0.3 0.7 2.0 1.9 2.6 3.6 5.0 7.0 8.0 8.5	1.0 2.1 3.0 6.2 8.5 11.8 16.4 23.0 26.2 27.9
																			
RG-59																			
Nominal Delay: 3.97 ns/m										Pulling Tension: 218 N									


## 18 AWG • Solid 1.0 mm Bare Copper • 95 % Bare Copper Braid

<b>Foam PE Insulation • PVC Jacket (White or Black)</b>																			
75°C	533945	NEC: CM CEC: CM FT1	500 U-1000 1000	152 U-305 305	20.9 39.9 41.0	9.5 18.1 18.6	1.02 mm 18 AWG Solid BC 20.9 /km* 10.8 /km**	0.180 4.57	4.57	95% BC Braid 10.1 /km***	0.266 6.76	6.76	75	83%	16.3 53.5	53.5	1 5 10 50 100 200 400 700 900 1000	0.2 0.5 2.0 1.5 2.1 4.8 6.9 9.8 14.1 19.0 22.0 23.3	0.7 1.5 2.1 4.8 6.9 9.8 14.1 19.0 22.0 23.3
																			
RG-6																			
Nominal Delay: 4.003 ns/m										Pulling Tension: 507 N									

<b>Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket</b>																			
70°C	433945	IEC 60754-2	328 1640	100 500	13.4 67.2	6.1 30.5	1.02 mm 18 AWG Solid BC 20.9 /km* 10.8 /km**	0.180 4.57	4.57	95% BC Braid 10.1 /km***	0.266 6.75	6.75	75	83%	16.3 53.5	53.5	see above	see above	see above
																			
RG-6																			
Nominal Delay: 4.003 ns/m										Pulling Tension: 507 N									

## 14 AWG • Solid 1.6 mm Bare Copper • 95 % Bare Copper Braid

<b>Gas-Injected Foam PE Insulation • Black PVC Jacket</b>																			
75°C	513945	NEC: CM CEC: CM FT1	500 1000	152 305	52.5 98.1	23.8 44.5	1.63 mm 14 AWG Solid BC 8.5 /km* 4.6 /km**	0.280 7.11	7.11	95% BC Braid 3.9 /km***	0.405 10.29	10.29	75	84%	16.1 52.8	52.8	1 10 50 100 200 400 700 900 1000	0.2 0.4 0.9 1.3 1.9 2.9 4.1 4.8 5.2	0.6 1.1 3.0 4.3 6.2 9.5 13.5 15.7 17.1
																			
RG-11																			
Nominal Delay: 3.97 ns/m										Pulling Tension: 640 N									

<b>Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket</b>																			
70°C	413945	IEC 60754-2	500 1640	152 500	100.0 159.4	14.5 72.3	1.63 mm 14 AWG Solid BC 8.5 /km* 4.6 /km**	0.280 7.11	7.11	95% BC Braid 3.9 /km***	0.406 10.30	10.30	75	84%	16.1 52.8	52.8	see above	see above	see above
																			
RG-11																			
Nominal Delay: 3.97 ns/m										Pulling Tension: 640 N									

\*DC loop resistance • \*\*DC resistance inner conductor • \*\*\* DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper

## Security Coaxial Cables

Water-Blocked for Use in Underground Ducts



De- scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100 m

**20 AWG • Solid 0.8 mm Bare Copper • Duobond® II • 95 % Tinned Copper Braid • CoreGuard®**

Gas-Injected Foam PE Insulation • Black UV-Resistant PVC Jacket																				
75°C	5439W5	NEC:	U-500	U-152	17.4	7.9	0.81 mm	0.145	3.68	Duobond® II + 95% TC Braid 8.2 /km***	0.236	5.99	75	83%	16.3	53.5	1	0.3	1.0	
		CM	500	152	17.4	7.9	20 AWG	5	0.6								2.1			
		CEC:	U-1000	U-305	34.0	15.4	Solid BC	10	2.0								2.9			
		CM FT1	1000	305	34.0	15.4	32.8 /km* 24.6 /km**	50	1.7								5.6			
																	100	2.3	7.5	
																		200	3.4	11.2
																		400	4.7	15.4
																		700	6.3	20.7
																		900	7.3	24.0
																		1000	7.8	25.6



CoreGuard®

RG-59

Nominal Delay: 3.97 ns/m

Pulling Tension: 253 N

**18 AWG • Solid 1.0 mm Bare Copper • Duofoil® • 60 % Aluminum Braid • CoreGuard®**

Gas-Injected Foam PE Insulation • Black UV-Resistant PVC Jacket																				
75°C	5339W5	NEC:	U-500	U-152	15.4	7.0	1.02 mm	0.180	4.57	Duofoil® + 60% AL Braid 10.1 /km***	0.270	6.86	75	83%	16.3	53.5	4	0.6	2.0	
		CM	500	152	15.4	7.0	18 AWG	30	1.3								4.4			
		CEC:	U-1000	U-305	30.0	13.6	Solid BC	211	2.0								10.1			
		CM FT1	1000	305	30.0	13.6	20.9 /km* 10.8 /km**	270	3.5								11.5			
																		300	3.7	12.1
																		330	3.9	12.8
																		400	4.3	14.1
																		450	4.6	15.0
																		550	5.1	16.7
																		750	6.0	19.7
																		870	6.5	21.3
																		1000	7.0	23.0



CoreGuard®

RG-6

Nominal Delay: 3.97 ns/m

Pulling Tension: 302 N

\*DC loop resistance • \*\*DC resistance inner conductor • \*\*\* DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • AL = Aluminum

Duofoil® and Duobond® II see technical information page 23.13.

### Security Coaxial Cables

CATV and MATV Applications Commercial or Schlage Systems



De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m

**18 AWG • Solid 1.0 mm Bare Copper • Duofoil® • 60% Aluminum Braid**

Gas-Injected Foam PE Insulation • PVC Jacket (White or Black)																											
75°C	5339B5	NEC:	U-500	U-152	17.4	7.9	1.02 mm	0.180	4.57	Duofoil® + 60% AL Braid	0.266	6.76	75	83%	16.3	53.5	5	0.8	2.7								
		CM:	500	152	15.4	7.0	18 AWG																	55	1.6	5.3	
		CEC:	U-1000	U-305	34.0	15.4	Solid BC																		211	2.0	10.1
		CM FT1	1000	305	35.1	15.9	20.9 /km*																		270	3.5	11.5
							10.8 /km**																			300	3.7
																		330	3.9	12.8							
																			400	4.3	14.1						
																				450	4.6	15.0					
																					550	5.1	16.7				
																						750	6.0	19.7			
																							870	6.5	21.3		
																							1000	7.0	23.0		



Series 6  
RG-6

Also available in White.

Nominal Delay: 3.97 ns/m  
Pulling Tension: 302 N

**Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket**

70°C	4339B5	IEC:	328	100	11.9	5.4	1.02 mm	0.180	4.57	Duofoil® + 63% BC Braid	0.272	6.90	75	83%	16.3	53.5	see above												
		60754-2	1640	500	59.3	26.9	18 AWG																						
		IEC 332-1					Solid BC																						
							20.9 /km*																						
							10.8 /km**																						



Series 6  
RG-6

Nominal Delay: 3.97 ns/m  
Pulling Tension: 302 N

**18 AWG • Solid 1.0 mm Bare Copper • Quad Shield**

Gas-Injected Foam PE Insulation • PVC Jacket (White or Black)																												
75°C	5339Q5	NEC:	500	152	19.0	8.6	1.02 mm	0.180	4.57	Duofoil® + 60% AL Braid	0.298	7.57	75	83%	16.3	53.5	see above											
		CM:	U-1000	U-305	35.9	16.3	18 AWG																					
		CEC:	1000	305	35.9	16.3	Solid BC																					
		CM FT1					20.9 /km*																					
							10.8 /km**																					



Series 6  
RG-6

Nominal Delay: 3.97 ns/m  
Pulling Tension: 462 N

**Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket**

70°C	4339Q5	IEC:	328	100	12.3	5.6	1.02 mm	0.180	4.57	Duofoil® + 60% AL Braid	0.299	7.60	75	83%	16.3	53.5	see above											
		60754-2	1640	500	62.6	28.4	18 AWG																					
		IEC 332-1					Solid BC																					
							20.9 /km*																					
							10.8 /km**																					



Series 6  
RG-6

Nominal Delay: 3.97 ns/m  
Pulling Tension: 462 N

**18 AWG • Solid 1.0 mm Bare Copper • Duobond® (Schlage Systems) • 60% Aluminum Braid**

Foam PE Insulation • Black PVC Jacket																												
75°C	5399B5	NEC:	U-1000	U-305	28.0	12.7	1.02 mm	0.180	4.57	Duobond® + 60% AL Braid	0.270	6.86	75	83%	16.3	53.5	4	0.6	2.0									
		CM:	1000	305	29.1	13.2	18 AWG																					
		CEC:					Solid BC																					
		CM FT1					20.9 /km*																					
							10.8 /km**																					



Series 6  
RG-6

Nominal Delay: 3.97 ns/m  
Pulling Tension: 302 N

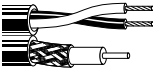
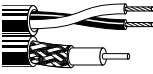
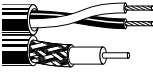
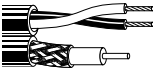
\*DC loop resistance • \*\*DC resistance inner conductor • \*\*\* DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • AL = Aluminum

Quad Shield = Duofoil Tape + 60% Aluminum Braid + Duofoil Tape + 40% Aluminum Braid  
Duofoil® and Duobond® see technical information page 23.13.

**Security Composite Cables**

CCTV Plus Audio or Pan and Tilt CCTV Control Applications



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Compo- nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD		
			ft.	m	lbs.	kg		inch	mm						inch	mm	
<b>Composite • (1) Pair Unshielded 18 AWG • (1) Coax Solid 0.8 mm Bare Copper • 95 % Bare Copper Braid</b>																	
<b>PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket</b>																	
300V 75°C	<b>549945</b>	NEC: CM CEC: CM FT1	500 1000	152 305	30.0 60.2	13.6 27.3	Unshielded	0.460	11.68	2xData	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 1.47 mm	PVC Black	0.228	5.79	
											1xCoax	20 AWG 0.8 mm Solid BC	95% BC	Foam Polyolefin	PVC Black	0.232	5.89
RG-59																	
Color Code 1-Pair: Black and Red																	
<b>PVC Insulation (Pairs) • Foam Insulation (Coax) • Grey FRNC/LSNH Jacket</b>																	
300V 70°C	<b>449945</b>	IEC 60754-2	328 1640	100 500	19.8 98.8	9.0 44.8	Unshielded	0.461	11.70	2xData	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PE 1.47 mm	FRNC Grey	0.228	5.79	
											1xCoax	20 AWG 0.8 mm Solid BC	95% BC	Foam PE	FRNC Grey	0.232	5.90
RG-59																	
Color Code 1-Pair: Black and Red																	
<b>Composite • (1) Pair Unshielded 18 AWG • (1) Coax Solid 1.0 mm Bare Copper • 95 % Bare Copper Braid</b>																	
<b>PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket</b>																	
300V 75°C	<b>539945</b>	NEC: CM CEC: CM FT1	500 1000	152 305	34.2 69.0	15.5 31.3	Unshielded	0.500	12.70	2xData	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 1.47 mm	PVC Black	0.228	5.79	
											1xCoax	18 AWG 1.0 mm Solid BC	95% BC	Foam Polyolefin	PVC Black	0.266	6.76
RG-6 Kötter approved																	
Color Code 1-Pair: Black and Red																	
<b>PVC Insulation (Pairs) • Foam Insulation (Coax) • Grey FRNC/LSNH Jacket</b>																	
300V 70°C	<b>439945</b>	IEC 60754-2	328 1640	100 500	22.9 114.9	10.4 52.1	Unshielded	0.500	12.70	2xData	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PE 1.47 mm	FRNC Grey	0.228	5.79	
											1xCoax	18 AWG 1.0 mm Solid BC	95% BC	Foam PE	FRNC Grey	0.268	6.80
RG-6 Kötter approved																	
Color Code 1-Pair: Black and Red																	

BC = Bare Copper • DCR = DC resistance

### Fire Alarm Cables

Commercial Applications  
Power-Limited Unshielded

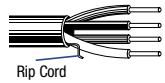


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**22 AWG** • Solid 0.6 mm Bare Copper • Numbered and Color Coded • Rip Cord

**Polyethylene Insulation • Red FRNC/LSNH Jacket**

300V 75°C	IEC 60754-2						1.02 mm 18 AWG Solid BC	0.068	1.72	Unshielded		see chart below	
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Rip Cord

Part No.	Conductor	Length (ft.)	Length (m)	Weight (lbs.)	Weight (kg)	Insulation OD (inch)	Insulation OD (mm)
4322UL	4 CDR	328	100	9.3	4.2	0.177	4.50
		1640	500	46.3	21.0		
4324UL	6 CDR	328	100	13.0	5.9	0.213	5.40
		1640	500	65.0	29.5		

BC = Bare Copper • DCR = DC resistance

**Color Code**

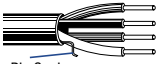



Cond. No.	Color	Cond. No.	Color
1	Black	4	Blue
2	Red	5	Orange
3	Brown	6	Yellow

20 • New Generation® Cables

**Fire Alarm Cables**

Commercial Applications  
Power-Limited Unshielded



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
<b>16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Rip Cord</b>													
<b>PVC Insulation • Red PVC Jacket</b>													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.29 mm 16 AWG Solid BC	0.061	1.54	Unshielded			
													
	<b>5220UL</b>	2 CDR	500 U-1000 1000	152 U-305 305	13.0 24.0 25.1	5.9 10.9 11.4					0.174	4.42	Black, Red
	<b>5222UL</b>	4 CDR	1000	305	45.0	20.4					0.204	5.18	Black, Red, Brown, Blue
<b>Polyethylene Insulation • Red FRNC / LSNH Jacket</b>													
300V 70°C		IEC 60754-2					1.29 mm 16 AWG Solid BC	0.077	1.95	Unshielded			
													
	<b>4220UL</b>	2 CDR	328 1640	100 500	7.7 38.4	3.5 17.4					0.173	4.40	Black, Red
	<b>4222UL</b>	4 CDR	1640	500	67.7	30.7					0.201	5.10	Black, Red, Brown, Blue
<b>14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • Rip Cord</b>													
<b>PVC Insulation • Red PVC Jacket</b>													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.63 mm 14 AWG Solid BC	0.077	1.96	Unshielded			
													
	<b>5120UL</b>	2 CDR	500 1000	152 305	19.0 38.1	8.6 17.3					0.213	5.41	Black, Red
	<b>5122UL</b>	4 CDR	1000	305	70.1	31.8					0.251	6.38	Black, Red, Brown, Blue
<b>Polyethylene Insulation • Red FRNC / LSNH Jacket</b>													
300V 70°C		IEC 60754-2					1.63 mm 14 AWG Solid BC	0.085	2.15	Unshielded			
													
	<b>4120UL</b>	2 CDR	328 1640	100 500	11.2 56.0	5.1 25.4					0.213	5.40	Black, Red
	<b>4122UL</b>	4 CDR	328 1640	100 500	19.8 99.9	9.0 45.3					0.252	6.40	Black, Red, Brown, Blue

BC = Bare Copper • DCR = DC resistance



## Fire Alarm Cables

Commercial Applications  
Power-Limited Unshielded

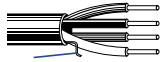


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

**12 AWG • Solid 2.1 mm Bare Copper • Numbered and Color Coded • Rip Cord**

**PVC Insulation • Red PVC Jacket**

300V 75°C	<b>5020UL</b>	NEC: FPLR CEC: CMG FT4	1000	305	55.1	25.0	2.05 mm 12 AWG Solid BC	0.094	2.38	Unshielded	0.247	6.27	Black, Red
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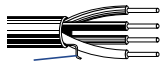


Rip Cord

2 CDR

**Polyethylene Insulation • Red FRNC/LSNH Jacket**

300V 70°C	<b>4020UL</b>	IEC 60754-2	1640	500	85.3	38.7	2.05 mm 12 AWG Solid BC	0.107	2.72	Unshielded	0.248	6.30	Black, Red
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Rip Cord

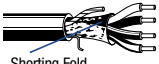


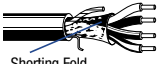

2 CDR

BC = Bare Copper • DCR = DC resistance

**Fire Alarm Cables**

Commercial Applications  
Power-Limited Shielded



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
<b>22 AWG • Solid 0.6 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord</b>													
<b>PVC Insulation • Red PVC Jacket</b>													
300V 75°C	<b>5522FL</b>	NEC: FPLR CEC: CMG FT4	C-500 U-1000 1000	C-152 U-305 305	9.0 19.0 19.0	4.1 8.6 8.6	0.64 mm 22 AWG Solid BC	0.035	0.89	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.145	3.68	Black, Red, Brown, Blue
 <p>Shorting Fold 4 CDR</p>													
<b>18 AWG • Solid 1.0 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord</b>													
<b>PVC Insulation • Red PVC Jacket</b>													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.02 mm 18 AWG Solid BC	0.050	1.27	Overall Beldfoil® + Drain Wire (24 AWG TC)			
 <p>Shorting Fold</p>													
	<b>5320FL</b>	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	10.6 11.5 11.5 22.0 22.0	4.8 5.2 5.2 10.0 10.0					0.155	3.94	Black, Red
	<b>5322FL</b>	4 CDR	C-500 500 U-1000 1000	C-152 152 U-305 305	15.4 16.5 32.0 34.0	7.0 7.5 14.5 15.4					0.170	4.32	Black, Red, Brown, Blue
<b>Polyethylene Insulation • Red FRNC / LSNH Jacket</b>													
300V 70°C		IEC 60754-2					1.02 mm 18 AWG Solid BC	0.060	1.52	Overall Beldfoil® + Drain Wire (24 AWG TC)			Black, Red, Brown, Blue
 <p>Shorting Fold</p>													
	<b>4320FL</b>	4 CDR	328 1640	100 500	3.3 16.5	1.5 7.5					0.157	4.00	
	<b>4322FL</b>	4 CDR	328 1640	100 500	3.7 18.1	1.7 8.2					0.169	4.30	
<b>16 AWG • Solid 1.3 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord</b>													
<b>PVC Insulation • Red PVC Jacket</b>													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.29 mm 16 AWG Solid BC	0.061	1.54	Overall Beldfoil® + Drain Wire (24 AWG TC)			
 <p>Shorting Fold</p>													
	<b>5220FL</b>	2 CDR	1000	305	29.1	13.2					0.178	4.52	Black, Red
	<b>5222FL</b>	4 CDR	1000	305	50.0	22.7					0.208	5.28	Black, Red, Brown, Blue
<b>Polyethylene Insulation • Red FRNC / LSNH Jacket</b>													
300V 70°C	<b>4220FL</b>	IEC 60754-2	328 1640	100 500	8.8 44.5	4.0 20.2	1.29 mm 16 AWG Solid BC	0.071	1.80	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.177	4.50	Black, Red
 <p>Shorting Fold 2 CDR</p>													





TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

**Fire Alarm Cables**

Commercial Applications

Power-Limited Shielded



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
<b>14 AWG • Solid 1.6 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord</b>													
<b>PVC Insulation • Red PVC Jacket</b>													
300V 75°C		NEC: FPLR CEC: CMG FT4					1.63 mm 14 AWG Solid BC	0.077	1.96	Overall Beldfoil® + Drain Wire (24 AWG TC)			
													
	<b>5120FL</b>	2 CDR	500	152	22.0	10.0					0.217	5.51	Black, Red
			1000	305	43.0	19.5							
	<b>5122FL</b>	4 CDR	1000	305	79.1	35.9					0.255	6.48	Black, Red, Brown, Blue
<b>Polyethylene Insulation • Red FRNC/LSNH Jacket</b>													
300V 70°C	<b>4120FL</b>	IEC 60754-2	1640	500	64.4	29.2	1.63 mm 14 AWG Solid BC	0.085	2.15	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.217	5.50	Black, Red
													
		2 CDR											
<b>12 AWG • Solid 2.0 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord</b>													
<b>Polyethylene Insulation • Red FRNC/LSNH Jacket</b>													
300V 75°C	<b>5020FL</b>	NEC: FPLR CEC: CMG FT4	1000	305	60.0	27.2	2.05 mm 12 AWG Solid BC	0.094	2.38	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.251	6.38	Black, Red
													
		2 CDR											
<b>Polyethylene Insulation • Red FRNC/LSNH Jacket</b>													
300V 70°C	<b>4020FL</b>	IEC 60754-2	1640	500	90.4	41.0	2.05 mm 12 AWG Solid BC	0.107	2.72	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.252	6.40	Black, Red
													
		2 CDR											

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

**Circuit Integrity & Fire Protection Cables**

Commercial Applications


Power-Limited Shielded



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	


**17 AWG** • Solid 1.13 mm Plain Annealed Copper to BS6360 • Circuit Protection Conductor • Mica/Glass Fire Barrier • Aluminum/Polyester Taped Screen • Drain Wire

**XL Polyolefin FROH Insulation • Red FRNC/LSNH Jacket**

300V 70°C	IEC 331						1.13 mm 17 AWG Solid Plain Annealed Copper BS6360 + Circuit Protection	0.115	2.93	Mica/Glass Fire Barrier Overall Alu/PE foil FROH + Drain Wire			
													
1.0 mm <sup>2</sup>													
<b>4K20FX</b>	2 CDR		328 1640	100 500	21.2 105.8	9.6 48.0					0.313	7.96	Black, Red
<b>4K21FX</b>	3 CDR		328 1640	100 500	25.4 126.8	11.5 57.5					0.331	8.41	Black, Red, Yellow
<b>4K22FX</b>	4 CDR		328 1640	100 500	28.4 142.2	12.9 64.5					0.361	9.17	Black, Red, Yellow, Blue


**15 AWG** • Solid 1.38 mm Plain Annealed Copper to BS6360 • Circuit Protection Conductor • Mica/Glass Fire Barrier • Aluminum/Polyester Taped Screen • Drain Wire

**XL Polyolefin FROH Insulation • Red FRNC/LSNH Jacket**

300V 70°C	IEC 331						1.38 mm 15 AWG Solid Plain Annealed Copper BS6360 + Circuit Protection	0.126	3.20	Mica/Glass Fire Barrier Overall Alu/PE foil FROH + Drain Wire			
													
1.5 mm <sup>2</sup>													
<b>4L20FX</b>	2 CDR		328 1640	100 500	26.2 131.2	11.9 59.5					0.335	8.50	Black, Red
<b>4L21FX</b>	3 CDR		328 1640	100 500	33.3 166.4	15.1 75.5					0.354	8.99	Black, Red, Yellow
<b>4L22FX</b>	4 CDR		328 1640	100 500	37.7 188.5	17.1 85.5					0.387	9.82	Black, Red, Yellow, Blue
<b>4L25FX</b>	7 CDR		328 1640	100 500	57.8 288.8	26.2 131.0					0.469	11.90	Black, Red, Yellow, Blue, Black, Red, Yellow

**13 AWG** • Solid 1.78 mm Plain Annealed Copper to BS6360 • Circuit Protection Conductor • Mica/Glass Fire Barrier • Aluminum/Polyester Taped Screen • Drain Wire

**XL Polyolefin FROH Insulation • Red FRNC/LSNH Jacket**

300V 70°C	IEC 331						1.78 mm 13 AWG Solid Plain Annealed Copper BS6360 + Circuit Protection	0.149	3.79	Mica/Glass Fire Barrier Overall Alu/PE foil FROH + Drain Wire			
													
2.5 mm <sup>2</sup>													
<b>4N20FX</b>	2 CDR		328 1640	100 500	36.2 180.8	16.4 82.0					0.381	9.68	Black, Red
<b>4N21FX</b>	3 CDR		328 1640	100 500	49.2 245.8	22.3 111.5					0.412	10.46	Black, Red, Yellow
<b>4N22FX</b>	4 CDR		328 1640	100 500	56.9 255.7	25.8 116.0					0.467	11.85	Black, Red, Yellow, Blue

Alu = Aluminum • PE = Polyester • DCR = DC resistance