



New Generation® Cables

20



Table of Contents

New Generation® Sound, Security and Alarm Cables	Page No.
Introduction	20.2 – 20.2
New Generation® Cable Finder Guide	20.3 – 20.9
Security Multi-Conductor Cables	20.10
Residential, Light Commercial and Institutional Applications	20.10
Security and Alarm Cables	20.11 – 20.33
Commercial Applications Unshielded	20.11 – 20.17
Commercial Applications Shielded	20.18 – 20.27
Water-Blocked for Use in Underground Ducts Unshielded and Shielded	20.28
Commercial Applications Unshielded Twisted Pairs	20.29
Commercial Applications Shielded Twisted Pairs	20.30 – 20.31
Commercial Applications Individually Shielded Twisted Pairs	20.32
Commercial Applications Individually Shielded Twisted Pairs plus Conductors	20.33
Security Coaxial Cables	20.34 – 20.38
Surveillance and CCTV Applications	20.34
Surveillance and CCTV Applications, Shielded or Flooded for Use in Underground Ducts	20.35 – 20.36
Water-Blocked for Use in Underground Ducts	20.37
CATV and MATV Applications, Commercial or Schlage Systems	20.38
Security Composite Cables	20.39 – 20.45
CCTV plus Audio or PAN and Tilt CCTV Control Applications	20.39 – 20.40
CCTV PTZ Camera Cables	20.41
CCTV Fixed and PTZ Camera Cables	20.42
Video Control System Cables	20.43
Banana Peel® PTZ Camera Cable Composite Cables Jacketless	20.44
Banana Peel® Access Control Composite Cables Jacketless	20.45
Fire Alarm Cables	20.46 – 20.55
Commercial Applications, Power-Limited Unshielded	20.46 – 20.49
Commercial Applications, Power-Limited Shielded	20.50 – 20.51
Commercial Applications, Addressable Systems, Power-Limited, Mid-Capacitance Unshielded and Shielded	20.52 – 20.53
NPLF Systems, Non-Power-Limited Signaling Cable Unshielded and Shielded	20.54 – 20.55
Circuit Integrity & Fire Protection Cables	20.56
Commercial Applications, Power-Limited Shielded	20.56

Introduction



Changing the Future

The demands of the market are constantly changing the boundaries of cable technology. Nowhere is the demand for uncompromising quality and leading-edge technology more critical than in the increasingly complex fields of security and alarm systems and audio/visual applications – that's why choice, imagination, technical expertise and exceptional quality are vital.

Belden's New Generation® range comprises low voltage electronic cables. It includes one of the largest, modern and economical/cost effective selections of reliable multi-conductor and coaxial products on the market.

Innovations include Belden's revolutionary Banana Peel® access control composite cable, Banana Peel® CCTV PTZ (Power, Tilt, Zoom) cable, and Belcoil packaging for selected cables – all designed for easier and more efficient installation.

Key Applications

- Security systems
- Intercom/PA systems
- Sound/audio systems
- Power-limited controls
- Single line telephone
- Addressable fire systems
- Data circuits
- Monitor/detection
- Control circuits
- Initiating circuits
- Notification circuits

Special Features

• Banana Peel® Composite Cables

Belden's (patent pending) Banana Peel® cable technology fixes individual cables to a center spline or substrate. The individual cables can be easily peeled away eliminating the need for composite cables with an overall jacket. Banana Peel® technology is available in access control cables and CCTV PTZ camera cables.

Benefits include:

- Reduced installation time
- Smaller overall diameter
- Easier and more reliable installations – less set-up, pulling and termination time compared to individual cables
- Quicker identification of individual components

• Banana Peel® Access Control Cables

Belden Banana Peel® access control composite cables enable more cost effective security installations for access control devices such as card readers, retina scanners and hand-scanning devices. Whether the installation is in a commercial building, hospital, school, university, commercial building or government facility, Banana Peel® access control cables are designed to bring a whole new level of ease and convenience to the workplace.

Benefits include:

- Cost effective security
- Ease and convenience of installation
- Reliable day to day use

• Banana Peel® CCTV Power Tilt Zoom (PTZ) Camera Cable

Many public and private sector buildings today – such as offices, hospitals, airports, amusement parks, retail establishments, educational facilities, casinos, sports stadiums, prisons and other places – all have surveillance systems to monitor visitors and employees. The purpose of these systems is clear – to protect people, to protect the facility and to protect its assets.

CCTV cameras that can swivel and zoom in on particular areas are increasingly common. Banana Peel® PTZ cables facilitate the most effective camera installation and operation by providing all the video, power, and control cables needed in one easy-to-use composite cable.

Benefits include:

- High level security
- High-performance monitoring
- Protection of people
- Protection of premises and contents

• New Generation® Fire Resistant, Circuit Integrity Cables

When a fire occurs, there is no time for hesitation and every second counts. It is critical that fire detection, warning and alarm circuits continue to operate even under the most extreme conditions of fire, smoke and heat. There is nothing more important than the safety and evacuation of personnel and the fire alarm system must not fail.

Belden's New Generation® range features cables specifically designed for use during severe fires where a low-smoke, zero-halogen cable is required to maintain circuit integrity. The range includes cables that meet IEC 331 requirements for circuit integrity applications.

These cables are ideal for fire detection systems, emergency lighting, video surveillance and public address systems.

Benefits include:

- Fire detection and warning
- High-performance alarm circuits
- Continual operation during severe fires

Availability

Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a New Generation® cable in this catalog section that meets your technical requirements, see our U.S. Master Catalog or contact technical support at +31-77-3875-414 or techsupport.venlo@belden.com.

Corresponding Literature

Product Bulletins

- NP193: Belcoil packaging
- NP199: Banana Peel® access control composite cables, jacketless
- NP206: UTP composite cables for CCTV camera applications
- NP216: Banana Peel® PTZ composite cables for CCTV camera applications

Cable Finder Guide – New Generation® Coax



No. of Cond.	Material	Stranded (mm)	Solid (mm)	Nom. Imp. Ohm	CDR Dia. (mm)	Braid			Cu-foil/Braid			Duobond®/Braid			Duobond II®/Braid			Duofoil®/Braid				
						Part No.	BC	Page	Part No.	BC	Page	Part No.	AL	Page	Part No.	TC	Page	Part No.		Page		
25 AWG 0.55 0.45																						
1	BC		solid	75	0.46	473945	95%	20.35														
	BC		solid	75	0.46	573945	94%	20.35														
22 AWG 0.80 0.60																						
1	BC	7x30		75	0.76	451945	95%	20.35														
	BC	7x30		75	0.76	551945	95%	20.35														
20 AWG 0.90 0.80																						
1	BC		solid	75	0.81	443945	95%	20.36														
	BC		solid	75	0.81	543945	95%	20.35														
	BC		solid	75	0.81									5439W5#	95%	20.37						
	BC		solid	75	0.80												H121A00	40% TC	20.34			
18 AWG 1.20 1.00																						
1	BC		solid	75	1.02														4339B5	63% BC	20.38	
	BC		solid	75	1.02														4339Q5*	60% AL + 40% AL	20.38	
	BC		solid	75	1.02	433945	95%	20.36														
	BC		solid	75	1.02	533945	95%	20.36														
	BC		solid	75	1.02															5339B5	60% AL	20.38
	BC		solid	75	1.02															5339Q5*	60% AL + 40% AL	20.38
	BC		solid	75	1.02															5339W5#	60% AL	20.37
	BC		solid	75	1.02							5399B5	60%	20.38								
	BC		solid	75	1.00					H109A00	55%	20.34										
	BC		solid	75	1.00															H125A00	40% TC	20.34
14 AWG 1.85 1.60																						
1	BC		solid	75	1.63	413945	95%	20.36														
	BC		solid	75	1.63	513945	95%	20.36														

* Quad Shield = Duofoil Tape + 60% Aluminum Braid + Duofoil Tape + 40% Aluminum Braid

CoreGuard®

TC = Tinned Copper • BC = Bare Copper • AL = Aluminum

Cable Finder Guide – New Generation® Multi-Conductor and Twisted Pair

No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm² 0.60 0.50										
2	none	7x32		x			5600FE	20.18		
	none	7x0.193					SEC0008	20.18		
	1	7x0.193					SEC0027	20.19		
4	none	7x0.193					SEC0009	20.18		
	2	7x0.193					SEC0028	20.19		
	1/1	7x0.193					SEC0037	20.19		
	1/1	7x0.193					SEC0042	20.19		
6	none	7x0.193					SEC0010	20.18		
	3	7x0.193					SEC0029	20.19		
	2/1	7x0.193					SEC0038	20.19		
	2/1	7x0.193					SEC0043	20.19		

AWG values are approximate where cables are made to European standards (mm²), and vice versa.

Where the current reaches upper limits, the varying operation conditions for installation and laying acc. to standards are to be taken into consideration.



Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair (continued)



No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
24 AWG 0.22 mm² 0.60 0.50 (continued)										
8	4		solid		1500A	20.42				
	4		solid		1583E	20.42				
	none	7x0.193					SEC0011	20.18		
	4	7x0.193					SEC0030	20.19		
	3/1	7x0.193					SEC0039	20.19		
	3/1	7x0.193					SEC0044	20.19		
10	none	7x0.193					SEC0012	20.18		
	5	7x0.193					SEC0031	20.19		
	4/1	7x0.193					SEC0040	20.19		
	4/1	7x0.193					SEC0045	20.19		
12	none	7x0.193					SEC0013	20.18		
	6	7x0.193					SEC0032	20.19		
	5/1	7x0.193					SEC0041	20.19		
	5/1	7x0.193					SEC0046	20.19		
14	7	7x0.193					SEC0033	20.19		
16	none	7x0.193					SEC0014	20.18		
	8	7x0.193					SEC0034	20.19		
20	10	7x0.193					SEC0035	20.19		
22	11	7x0.193					SEC0036	20.19		
2/2	none	7x0.193					SEC0015	20.18		
	none	7x0.193					SEC0021	20.18		
4/2	none	7x0.193					SEC0016	20.18		
	none	7x0.193					SEC0022	20.18		
6/2	none	7x0.193					SEC0017	20.18		
	none	7x0.193					SEC0023	20.18		
8/2	none	7x0.193					SEC0018	20.18		
	none	7x0.193					SEC0024	20.18		
10/2	none	7x0.193					SEC0019	20.18		
	none	7x0.193					SEC0025	20.18		
12/2	none	7x0.193					SEC0020	20.18		
	none	7x0.193					SEC0026	20.18		
23 AWG 0.26 mm² 0.65 0.57										
8	4		solid		7881A	20.42				
22 AWG 0.34 mm² 0.80 0.60										
2	none	7x30		x			4500FE	20.21		
	none	7x30			4500UE	20.12				
	none	7x30					5500F1	20.28		
	none	7x30		x			5500FE	20.20		
	none	7x30			5500UE	20.11				
	none	7x30			5500UG	20.10				
3	none	7x30		x			4501FE	20.21		
	none	7x30			4501UE	20.12				
	none	7x30		x			5501FE	20.20		
	none	7x30			5501UE	20.11				
	1+1/C	7x30		x					5501GE	20.33
4	none	7x30		x			4502FE	20.21		
	none	7x30			4502UE	20.12				
	none	7x30		x			5502FE	20.20		
	none	7x30			5502UE	20.11				
	none	7x30			5502UG	20.10				
	none		solid	x			5522FL	20.50		
	none		solid	x	5522UL	20.46				

AWG values are approximate where cables are made to European standards (mm²), and vice versa. Where the current reaches upper limits, the varying operation conditions for installation and laying acc. to standards are to be taken into consideration.

Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair (continued)



No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
22 AWG 0.34 mm² 0.80 0.60 (continued)										
4	1+2/C	7x30		x					4502GE	20.33
	1+2/C	7x30		x					5502GE	20.33
	2	7x30			5541UE	20.29				
	2	7x30		x			4541FE	20.30		
	2	7x30		x			5541FE	20.30		
5	none	7x30		x			5503FE	20.20		
	none	7x30			5503UE	20.11				
6	none	7x30		x			4504FE	20.21		
	none	7x30			4504UE	20.12				
	none	7x30		x			5504FE	20.20		
	none	7x30			5504UE	20.11				
	none		solid		5542UL	20.46				
	1+2/TP	7x30		x					5542GE	20.33
	3	7x30			5542UE	20.29				
8	3	7x30		x			4542FE	20.30		
	3	7x30		x			5542FE	20.30		
	none	7x30		x			4506FE	20.21		
		7x30			4506UE	20.12				
	none	7x30		x			5506FE	20.20		
	none	7x30			5506UE	20.11				
	4	7x30			5543UE	20.29				
4	7x30		x			5543FE	20.30			
4	7x30		x					5543PE	20.32	
10	none	7x30		x			4508FE	20.21		
	none	7x30		x			5508FE	20.20		
	none	7x30			5508UE	20.11				
12	none	7x30			4509UE	20.12				
	none	7x30			5509UE	20.11				
	6	7x30		x			4545FE	20.30		
	6	7x30		x			5545FE	20.30		
18	9	7x30			5547UE	20.29				
20 AWG 0.50 mm² 0.90 0.80										
2	none	7x28		x			4400FE	20.22		
	none	7x28			4400UE	20.13				
	none	7x28					5400F1	20.28		
	none	7x28		x			5400FE	20.22		
	none	7x28			5400UE	20.13				
3	none	7x28		x			4401FE	20.22		
	1+1/C	7x28		x					5401GE	20.33
	none	7x28		x			5401FE	20.22		
	none	7x28			5401UE	20.13				
4	none	7x28			4402UE	20.13				
	none	7x28		x			4402FE	20.22		
	2	7x28		x			4441FE	20.31		
	none	7x28		x			5402FE	20.22		
	1+2/C	7x28		x					5402GE	20.33
	none	7x28			5402UE	20.13				
5	2	7x28		x			5441FE	20.30		
	none	7x28		x			4403FE	20.22		
		7x28		x		5403FE	20.22			
none	7x28			5403UE	20.13					
6	3	7x28		x			5442FE	20.30		
7	none	7x28		x			5405FE	20.22		
	none	7x28			5405UE	20.13				

AWG values are approximate where cables are made to European standards (mm²), and vice versa. Where the current reaches upper limits, the varying operation conditions for installation and laying acc. to standards are to be taken into consideration.

Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair (continued)



No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil		
					Part No.	Page	Part No.	Page	Part No.	Page	
20 AWG 0.50 mm²		0.90	0.80	<i>(continued)</i>							
8	none	7x28			5406UE	20.13					
9	none	7x28		x			5407FE	20.22			
	none	7x28			5407UE	20.13					
10	none	7x28			5408UE	20.13					
12	none	7x28			5409UE	20.13					
	6	7x28		x			4445FE	20.31			
	6	7x28		x			5445FE	20.30			
20	none	7x28			540BUE	20.13					
18 AWG 0.75 mm²		1.20	1.00								
2	none	7x26		x			4300FE	20.24			
	none	7x26			4300UE	20.15					
	none	7x26					5300F1	20.28			
	none	7x26		x			5300FE	20.23			
	none	7x26			5300U1	20.28					
	none	7x26			5300UE	20.14					
	none	7x26			5300UG	20.10					
	none		solid					5320FJ	20.52		
	none		solid	x				5320FL	20.50		
	none		solid	x				5320FN	20.54		
	none		solid		5320UJ	20.52					
	none		solid		5320UL	20.46					
	none		solid		5320UN	20.54					
none	20x0.243						SEC0047	20.25			
3	none	7x26		x			4301FE	20.24			
	none	7x26			4301UE	20.15					
	none	7x26		x			5301FE	20.23			
	none	7x26			5301UE	20.14					
	none	20x0.243					SEC0048	20.25			
4	none	7x26		x			4302FE	20.24			
	none	7x26			4302UE	20.15					
	none	7x26		x			5302FE	20.23			
	none	7x26			5302UE	20.14					
	none		solid	x				4320FL	20.50		
	none		solid	x				4322FL	20.50		
	none		solid		4322UL	20.47					
	none		solid					5322FJ	20.52		
	none		solid	x				5322FL	20.50		
	none		solid	x				5322FN	20.54		
	none		solid		5322UL	20.46					
	none		solid		5322UN	20.54					
	1+2/C	7x26		x						5302GE	20.33
	2	7x26				4341UE	20.29				
2	7x26				5341UE	20.29					
2	7x26		x				4341FE	20.31			
2	7x26		x				5341FE	20.31			
none	20x0.243						SEC0049	20.25			
5	none	7x26		x			4303FE	20.24			
	none	7x26			4303UE	20.15					
	none	7x26		x			5303FE	20.23			
	none	7x26			5303UE	20.14					
	none	20x0.243					SEC0050	20.25			
6	none	7x26		x			4304FE	20.24			
	none	7x26			4304UE	20.15					
	none	7x26		x			5304FE	20.23			
	none	7x26			5304UE	20.14					
	none		solid		4324UL	20.47					

AWG values are approximate where cables are made to European standards (mm²), and vice versa. Where the current reaches upper limits, the varying operation conditions for installation and laying acc. to standards are to be taken into consideration.

Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair (continued)



No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
18 AWG 0.75 mm²					1.20	1.00 (continued)				
6	none		solid		5324UL	20.46				
	3	7x26			5342UE	20.29				
	3	7x26		x			4342FE	20.31		
	3	7x26		x			5342FE	20.31		
7	none	7x26		x			5305FE	20.23		
	none	7x26			5305UE	20.14				
8	none	7x26		x			4306FE	20.24		
	none	7x26			4306UE	20.15				
	none	7x26		x			5306FE	20.23		
	none	7x26			5306UE	20.14				
	none		solid		5326UL	20.46				
	4	7x26			5343UE	20.29				
	4	7x26		x			4343FE	20.31		
9	none	7x26		x			4307FE	20.24		
	none	7x26		x			5307FE	20.23		
	none	7x26			5307UE	20.14				
10	none	7x26			4308UE	20.15				
	none	7x26			5308UE	20.14				
	none		solid		5328UL	20.46				
12	none	7x26			4309UE	20.15				
	none	7x26			5309UE	20.14				
	none		solid		5329UL	20.46				
	6	7x26			5345UE	20.29				
	6	7x26		x			4345FE	20.31		
18	9	7x26					5345FE	20.31		
	9	7x26			5347UE	20.29				
20	none	7x26			5308UE	20.14				
17 AWG 1.00 mm²					1.20	1.00				
2	none		solid	x			4K20FX*	20.56		
3	none		solid	x			4K21FX*	20.56		
4	none		solid	x			4K22FX*	20.56		
16 AWG 1.50 mm²					1.50	1.30				
2	none	19x29		x			4200FE	20.26		
	none	19x29			4200UE	20.16				
	none		solid	x			4220FL	20.50		
	none		solid		4220UL	20.48				
	none	19x29		x			5200FE	20.26		
	none	19x29			5200UE	20.15				
	none		solid				5220FJ	20.52		
	none		solid	x			5220FL	20.50		
	none		solid	x			5220FN	20.55		
	none		solid			5220UJ	20.52			
	none		solid			5220UL	20.48			
3	none	19x29			5220UN	20.54				
	none	19x29		x			4201FE	20.26		
	none	19x29			4201UE	20.16				
	none	19x29		x			5201FE	20.26		
4	none	19x29			5201UE	20.15				
	none	19x29		x			4202FE	20.26		
	none	19x29			4202UE	20.16				
	none		solid		4222UL	20.48				
	none	19x29		x			5202FE	20.26		
none	19x29			5202UE	20.15					

* Mica/Glass Fire Barrier, XL Polyolefin FROH and Aluminum/Polyester taped Screen • AWG values are approximate where cables are made to European standards (mm²), and vice versa. Where the current reaches upper limits, the varying operation conditions for installation and laying acc. to standards are to be taken into consideration.



Cable Finder Guide

New Generation® Multi-Conductor and Twisted Pair (continued)



No. of Cond.	No. of Pairs	Stranded (mm)	Solid (mm)	Drain Wire	Unshielded		Overall Foil		Individual Foil	
					Part No.	Page	Part No.	Page	Part No.	Page
16 AWG 1.50 mm² 1.50 1.30 (continued)										
4	none		solid				5222FJ	20.52		
	none		solid	x			5222FL	20.50		
	none		solid	x			5222FN	20.55		
	none		solid		5222UL	20.48				
	none		solid		5222UN	20.54				
7	none	19x29			5205UE	20.15				
15 AWG 1.65 mm² 1.40										
2	none		solid	x			4L20FX*	20.56		
3	none		solid	x			4L21FX*	20.56		
4	none		solid	x			4L22FX*	20.56		
7	none		solid	x			4L25FX*	20.56		
14 AWG 2.50 mm² 1.85 1.60										
2	none	19x27		x			4100FE	20.27		
	none	19x27			4100UE	20.16				
	none		solid	x			4120FL	20.51		
	none		solid		4120UL	20.48				
	none	19x27		x			5100FE	20.27		
	none	19x27			5100UE	20.16				
	none		solid				5120FJ	20.53		
	none		solid	x			5120FL	20.51		
	none		solid	x			5120FN	20.55		
	none		solid		5120UL	20.48				
3	none	19x27			4101UE	20.16				
none	19x27		x				5101FE	20.27		
none	19x27			5101UE	20.16					
4	none	19x27			4102UE	20.16				
	none		solid		4122UL	20.48				
	none	19x27			5102UE	20.16				
	none		solid	x			5122FL	20.51		
	none		solid	x			5122FN	20.55		
	none		solid		5122UL	20.48				
13 AWG 2.63 mm² 2.10 1.80										
2	none		solid	x			4N20FX*	20.56		
3	none		solid	x			4N21FX*	20.56		
4	none		solid	x			4N22FX*	20.56		
12 AWG 4.00 mm² 2.40 2.10										
2	none	19x25		x			4000FE	20.27		
	none	19x25			4000UE	20.17				
	none		solid	x			4020FL	20.51		
	none		solid		4020UL	20.49				
	none	19x25		x			5000FE	20.27		
	none	19x25			5000UE	20.17				
	none		solid				5020FJ	20.53		
	none		solid	x			5020FL	20.51		
	none		solid	x			5020FN	20.55		
3	none		solid		5020UL	20.49				
3	none	19x25			4001UE	20.17				
	none	19x25			5001UE	20.17				

* Mica/Glass Fire Barrier, XL Polyolefin FROH and Aluminum/Polyester taped Screen

AWG values are approximate where cables are made to European standards (mm²), and vice versa.

Where the current reaches upper limits, the varying operation conditions for installation and laying acc. to standards are to be taken into consideration.

Cable Finder Guide – New Generation® Combination



No. of Cond.	Part No.	Description		Shielding	Component	Page
		Conductor / Gage	mm			
Combination Gages						
3	SEC0001	2 cdr - 26 AWG 1 co - 21 AWG	0.50 0.41	Unshielded Alu + 72% BC Braid	1xData 1xCoax	20.40
	SEC0003	2 cdr - 20 AWG 1 co - 26 AWG	1.00 0.41	Unshielded Alu + 72% BC Braid	1xData 1xCoax	20.40
	439945	1 pr - 18 AWG 1 co - 18 AWG	1.22 1.02	Unshielded 95% BC Braid	2xData 1xCoax	20.39
	449945	1 pr - 18 AWG 1 co - 20 AWG	1.22 0.80	Unshielded 95% BC Braid	2xData 1xCoax	20.39
	539945	1 pr - 18 AWG 1 co - 18 AWG	1.22 1.02	Unshielded 95% BC Braid	2xData 1xCoax	20.39
	549945	1 pr - 18 AWG 1 co - 20 AWG	1.22 0.80	Unshielded 95% BC Braid	2xData 1xCoax	20.39
5	SEC0002	1 co - 20 AWG 2 cdr - 16 AWG 2 cdr - 26 AWG	0.81 1.50 0.50	Alu + 55% TC Braid Unshielded Unshielded	1xCoax 1xData 1xControl	20.40
	SEC0004	1 co - 26 AWG 2 cdr - 24 AWG 2 cdr - 26 AWG	0.41 0.22 0.50	Alu + 72% TC Braid Unshielded Unshielded	1xCoax 1xData 1xControl	20.40
	500PTZ	1 co - 20 AWG 1 pr - 23 AWG 2 cdr - 18 AWG	0.81 0.57 1.22	95% BC Braid Unshielded Unshielded	Video Control Power	20.44
	501PTZ	1 co - 20 AWG 1 pr - 22 AWG 2 cdr - 18 AWG	0.81 0.76 1.22	95% BC Braid Beldfoil® Unshielded	Video Control Power	20.44
	502PTZ	1 co - 20 AWG 1 pr - 18 AWG 2 cdr - 18 AWG	0.81 1.24 1.22	95% BC Braid Beldfoil® Unshielded	Video Control Power	20.44
6	5284UE	2 pr - 23 AWG 2 cdr - 16 AWG	0.60 1.47	Unshielded Unshielded	1xData 2xPower	20.41
	5284US	2 pr - 24 AWG 2 cdr - 16 AWG	0.50 1.47	Unshielded Unshielded	1xData 2xPower	20.41
8	SEC0006	2 cdr - 16 AWG 3 pr - 28 AWG	1.50 0.35	Unshielded Unshielded	Power Control	20.43
10	5288US	4 pr - 24 AWG 2 cdr - 16 AWG	0.50 1.47	Unshielded Unshielded	1xData 2xPower	20.41
13	SEC0005	1 co - 23 AWG 3 cdr - 20 AWG 9 cdr - 22 AWG	0.58 1.00 0.75	55% TC Braid Unshielded Unshielded	Coax Power Control	20.43
15	SEC0007	1 co - 21 AWG 2 cdr - 22 AWG 6 cdr - 26 AWG 3 pr - 28 AWG	0.75 0.75 0.50 0.35	80% BC Braid Unshielded Unshielded Unshielded	Coax Power Data Control	20.43
16	558AFS	4 cdr - 18 AWG 3 pr - 22 AWG 2 cdr - 22 AWG 4 cdr - 22 AWG	1.22 0.76 0.76 0.76	Overall Beldfoil® Overall Beldfoil® Overall Beldfoil® Overall Beldfoil®	Lock Power Card Reader Door Contact Rex/Spare	20.45

co = Coax • cdr = Conductor(s) • pr = Pair

How to Interpret a Catalog Number

Can be used with part numbers starting with 4 or 5.

Standard Multi-Conductor, Paired, Fire Alarm, Combination Gage Cables:

5	3	0	0	U	E
Location					
5 = Non-plenum 6 = Plenum 4 = LSNH					
Gage					
E = 8/8.4 mm ² (solid) T = 10/5.3 mm ² (solid) 0 = 12/3.3 mm ² (solid)/3.6 mm ² (stranded) 1 = 14/2.1 mm ² /2.2 mm ² 2 = 16/1.3 mm ² /1.4 mm ² 3 = 18/0.82 mm ² /0.90 mm ² 4 = 20/0.52 mm ² /0.56 mm ² 5 = 22/0.33mm ² /0.36 mm ² 6 = 24/0.21 mm ² /0.23 mm ² K = 1.0 mm ² L = 1.5 mm ² M = 2.0 mm ² N = 2.5 mm ²					
Type of Conductor					
0 = Stranded multi-conductor 2 = Solid multi-conductor 4 = Stranded paired conductor 6 = Solid paired conductor 8 = Composite Cable					
Number of Conductors					
0 = 2 conductors 1 = 3 conductors or 2 pairs 2 = 4 conductors or 3 pairs 3 = 5 conductors or 4 pairs 4 = 6 conductors 5 = 7 conductors or 6 pairs 6 = 8 conductors 7 = 9 conductors or 9 pairs 8 = 10 conductors or 12 pairs 9 = 12 conductors A = 16 conductors B = 20 conductors					
Shielding					
C = Foil plus 85% braid, overall (m/c, pairs) F = Overall foil w/drain (m/c or multipair) G = One foil shielded pair w/drain (m/c, pair(s) combo) H = SPOS – shielded pairs and O/A foil shield P = Individual shielded pairs with drain (multipairs) U = Unshielded (m/c, pairs)					
Application					
1 = Water-blocked multi-conductor A = FEP Insulation/Teflon® jacket, plenum cable C = Halar® jacket, plenum cable E = Power-limited communication cable, high-capacitance G = Non-riser rated, may be un-cabled J = Power-limited fire protective, mid-capacitance K = Fire Alarm, Halar®/Flamarrest®, mid-capacitance L = Power-limited fire protective, high-capacitance N = PVC/Nylon Insulation, NPLF rated P = High Strand Audio Q = Residential Audio S = Spline X = Circuit Integrity, IEC 331					

Halar® is a Solvay Solexis trademark.
Teflon® is a DuPont trademark.

Security Multi-Conductor Cables

Residential, Light Commercial and Institutional 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		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Numbered and Color Coded • Conductors may not be Cabled

Polypropylene Insulation • PVC Jacket (Beige, Brown, Orange, Yellow, Green, Blue, Violet, Grey and Natural)

300V 75°C	NEC: CM CEC: CM FT1	C-500 U-500 C-1000 U-1000	C-152 U-152 C-305 U-305	3.5 5.1 7.1 9.0	1.6 2.3 3.2 4.1	0.76 mm 22 AWG (7x30) BC	0.045	1.14	Unshielded				
--------------	------------------------------	------------------------------------	----------------------------------	--------------------------	--------------------------	--------------------------------	-------	------	------------	--	--	--	--



5500UG	2 CDR	C-500 U-500 C-1000 U-1000	C-152 U-152 C-305 U-305	3.5 5.1 7.1 9.0	1.6 2.3 3.2 4.1		0.114	2.90		Black, Red
---------------	-------	------------------------------------	----------------------------------	--------------------------	--------------------------	--	-------	------	--	------------

U-305 m put-up available in Brown, Grey or Natural only.

5502UG	4 CDR	U-500 U-1000	U-152 U-305	7.5 14.1	3.4 6.4		0.131	3.33		Black, Red, White, Green
---------------	-------	-----------------	----------------	-------------	------------	--	-------	------	--	--------------------------

U-152 m put-up available in Grey or White only.

18 AWG • Stranded (7x26) 1.2 mm Bare Copper • Numbered and Color Coded • Conductors may not be Cabled

Polypropylene Insulation • PVC Jacket (Beige, Brown, Orange, Yellow, Green, Blue, Violet, Grey and Natural)

300V 75°C	5300UG	NEC: CM CEC: CM FT1	C-500 U-500 C-1000 U-1000	C-152 U-152 C-305 U-305	7.5 8.6 16.1	3.4 3.9 7.3	1.22 mm 18 AWG (7x26) BC	0.063	1.60	Unshielded	0.148	3.76	Black, Red
--------------	---------------	------------------------------	------------------------------------	----------------------------------	--------------------	-------------------	--------------------------------	-------	------	------------	-------	------	------------



Available in Grey, Black or Natural only.

2 CDR

BC = Bare Copper • DCR = DC resistance

Security and Alarm Cables

Commercial Applications Unshielded

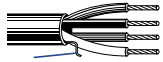


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

PVC Insulation • Grey PVC Jacket

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



Rip Cord

5500UE	2 CDR	C-500	C-152	4.0	1.8	0.128	3.25
		U-500	U-152	5.5	2.5		
		500	152	5.5	2.5		
		C-1000	C-305	7.9	3.6		
		U-1000	U-305	9.9	4.5		
		1000	305	9.0	4.1		
5501UE	3 CDR	U-1000	U-305	13.0	5.9	0.135	3.43
		1000	305	13.0	5.9		
5502UE	4 CDR	C-500	C-152	7.5	3.4	0.148	3.76
		U-500	U-152	9.0	4.1		
		U-1000	U-305	16.1	7.3		
		1000	305	16.1	7.3		
Also available in White.							
5503UE	5 CDR	U-1000	U-305	20.1	9.1	0.162	4.11
		1000	305	20.1	9.1		
5504UE	6 CDR	C-500	C-152	12.6	5.7	0.177	4.50
		U-500	U-152	14.1	6.4		
		500	152	13.4	6.1		
		U-1000	U-305	27.1	12.3		
		1000	305	27.1	12.3		
Also available in White.							
5506UE	8 CDR	U-1000	U-305	29.1	13.2	0.192	4.88
		1000	305	30.0	13.6		
5508UE	10 CDR	U-1000	U-152	35.9	16.3	0.226	5.74
		1000	305	41.0	18.6		
5509UE	12 CDR	U-500	U-152	21.6	9.8	0.233	5.92
		U-1000	U-305	42.1	19.1		
		1000	305	47.2	21.4		

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

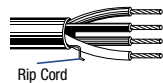


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

Polyethylene Insulation • Grey FRNC/LSNH Jacket

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



4500UE	2 CDR	328 1640	100 500	3.1 15.4	1.4 7.0						0.130	3.30	
4501UE	3 CDR	328 1640	100 500	3.1 15.4	1.4 7.0						0.130	3.30	
4502UE	4 CDR	328 1640	100 500	5.3 26.0	2.4 11.8						0.154	3.90	
4504UE	6 CDR	328 1640	100 500	7.3 36.2	3.3 16.4						0.177	4.50	
4506UE	8 CDR	328 1640	100 500	8.8 43.7	4.0 19.8						0.193	4.90	
4509UE	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
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue

Cond. No.	Color
7	Orange
8	Yellow
9	Purple
10	Grey
11	Pink
12	Tan

Security and Alarm Cables

Commercial Applications Unshielded

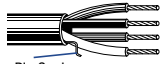


De- scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

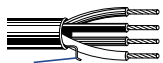


Rip Cord

5400UE	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	
5401UE	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	
5402UE	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	
5403UE	5 CDR	U-1000 1000	U-305 305	26.9 28.0	12.2 12.7						0.181	4.60	
5405UE	7 CDR	500 1000	152 305	19.0 40.1	8.6 18.2						0.198	5.03	
5406UE	8 CDR	U-1000 1000	U-305 305	41.0 43.0	18.6 19.5						0.215	5.46	
5407UE	9 CDR	1000	305	48.1	21.8						0.233	5.92	
5408UE	10 CDR	1000	305	53.1	24.1						0.254	6.45	
5409UE	12 CDR	1000	305	61.9	28.1						0.262	6.65	
5408UE	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

4400UE	2 CDR	328 1640	100 500	3.7 18.7	1.7 8.5						0.142	3.60	
4402UE	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

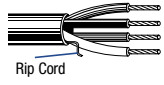


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

PVC Insulation • Grey PVC Jacket

300V
75°C
NEC:
CMR
CEC:
CMG FT4
1.22 mm
18 AWG
(7x26) BC
0.058 1.47 Unshielded see chart below



5300UE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.6 9.5 9.5 17.0 18.1	3.9 4.3 4.3 7.7 8.2						0.161	4.09	
Also available in White or Black.													
5301UE	3 CDR	500 U-1000 1000	152 U-305 305	12.6 24.9 24.9	5.7 11.3 11.3						0.171	4.34	
5302UE	4 CDR	C-250 U-500 500 U-1000 1000	C-76 U-152 152 U-305 305	7.5 16.5 16.1 32.0 32.0	3.4 7.5 7.3 14.5 14.5						0.188	4.78	
5303UE	5 CDR	500 U-1000 1000	152 U-305 305	20.5 39.0 39.0	9.3 17.7 17.7						0.207	5.26	
5304UE	6 CDR	500 U-1000 1000	152 U-305 305	26.0 51.1 52.0	11.8 23.2 23.6						0.226	5.74	
5305UE	7 CDR	U-1000 1000	U-305 305	51.1 52.0	23.2 23.6						0.226	5.74	
5306UE	8 CDR	500 1000	152 305	30.0 59.1	13.6 26.8						0.248	6.30	
5307UE	9 CDR	1000	305	66.1	30.0						0.269	6.83	
5308UE	10 CDR	500 1000	152 305	38.6 74.1	17.5 33.6						0.294	7.47	
5309UE	12 CDR	500 1000	152 305	47.6 90.2	21.6 40.9						0.314	7.98	
530BUE	20 CDR	1000	305	152.1	69.0						0.400	10.16	

BC = Bare Copper • DCR = DC resistance

Color Code

Cond. No.	Color	Cond. No.	Color
1	Black	11	Pink
2	Red	12	Tan
3	White	13	White/Black
4	Green	14	White/Red
5	Brown	15	White/Green
6	Blue	16	White/Orange
7	Orange	17	White/Blue
8	Yellow	18	White/Brown
9	Purple	19	White/Yellow
10	Grey	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
--------------	-------------	--	--------------------------------	-------	------	------------	-----------------



Rip Cord

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

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
--------------	--------------------------------	--	---------------------------------	-------	------	------------	-----------------



Rip Cord

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



Security and Alarm Cables

Commercial Applications Unshielded

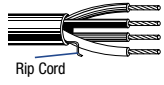


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

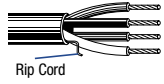


4200UE	2 CDR	328 1640	100 500	7.5 37.3	3.4 16.9						0.185	4.70	Black, White
4201UE	3 CDR	328 1640	100 500	9.9 49.8	4.5 22.6						0.197	5.00	Black, White, Red
4202UE	4 CDR	328 1640	100 500	13.2 65.7	6.0 29.8						0.217	5.50	Black, White, Red, Green

14 AWG • Stranded (19x27) 1.9 mm Bare Copper • Numbered and Color Coded • Rip Cord

Polyethylene Insulation • Grey PVC Jacket

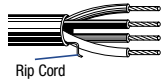
300V
75°C NEC:
CMR
FPLR
CL3R 1.85 mm
14 AWG
(19x27) BC 0.087 2.21 Unshielded



5100UE	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).													
5101UE	3 CDR	1000	305	56.2	25.5						0.249	6.32	Black, White, Red
5102UE	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



4100UE	2 CDR	328 1640	100 500	11.5 57.8	5.2 26.2						0.232	5.90	Black, White
4101UE	3 CDR	328 1640	100 500	15.4 76.9	7.0 34.9						0.248	6.30	Black, White, Red
4102UE	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

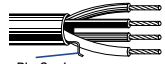


De-scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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			
--------------	--------------	--	--	--	--	--	---------------------------------	-------	------	------------	--	--	--



Rip Cord

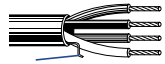
5000UE	2 CDR	500	152	29.1	13.2						0.268	6.81	Black, White
		1000	305	57.1	25.9								

Also available in Red for fire alarm (FPLR).

5001UE	3 CDR	1000	305	82.2	37.3						0.286	7.26	Black, White, Red
---------------	-------	------	-----	------	------	--	--	--	--	--	-------	------	-------------------

Polyethylene Insulation • Grey FRNC/LSNH Jacket

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



Rip Cord

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

4001UE	3 CDR	1640	500	375.2	170.2						0.287	7.30	Black, White, Red
---------------	-------	------	-----	-------	-------	--	--	--	--	--	-------	------	-------------------

BC = Bare Copper • DCR = DC resistance

Security and Alarm Cables

Commercial Applications Shielded

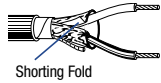


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

24 AWG • Stranded (7x32) 0.6 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded

PVC Insulation • Grey PVC Jacket

300V 75°C	5600FE	NEC: CMR CEC: CMG FT4	U-1000 1000	U-305 305	11.0 9.9	5.0 4.5	0.61 mm 24 AWG (7x32) BC	0.034	0.86	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.120	3.05	see chart 12 (Tech Info Section)
--------------	---------------	--------------------------------	----------------	--------------	-------------	------------	--------------------------------	-------	------	---	-------	------	-------------------------------------



Shorting Fold

2 CDR

De- scription	Part No.	No. of Cond. (CDR)	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 ²		inch	mm	

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

PVC Insulation • White Flame-Resistant PVC Jacket (Color Code: see chart 11, Tech Info Section)

500V 70°C										Overall Alufoil			- Alarm systems - Antitrust systems - Smoke survey - Fire survey - Industrial checks
--------------	--	--	--	--	--	--	--	--	--	--------------------	--	--	--



LiY (St) Y

SEC0008	2	328	100	39.7	18.0	(7x0.193) BC	24	0.22			0.150	3.80	
SEC0009	4	328	100	61.7	28.0	(7x0.193) BC	24	0.22			0.165	4.20	
SEC0010	6	328	100	75.0	34.0	(7x0.193) BC	24	0.22			0.181	4.60	
SEC0011	8	328	100	97.0	44.0	(7x0.193) BC	24	0.22			0.209	5.30	
SEC0012	10	328	100	114.6	52.0	(7x0.193) BC	24	0.22			0.228	5.80	
SEC0013	12	328	100	136.7	62.0	(7x0.193) BC	24	0.22			0.240	6.10	
SEC0014	16	328	100	160.9	73.0	(7x0.193) BC	24	0.22			0.276	7.00	
SEC0015	2/2	328	100	83.8	38.0	(7x0.193) BC	24	0.22 + 0.50			0.193	4.90	
SEC0016	4/2	328	100	97.0	44.0	(7x0.193) BC	24	0.22 + 0.50			0.205	5.20	
SEC0017	6/2	328	100	114.6	52.0	(7x0.193) BC	24	0.22 + 0.50			0.232	5.90	
SEC0018	8/2	328	100	141.1	64.0	(7x0.193) BC	24	0.22 + 0.50			0.256	6.50	
SEC0019	10/2	328	100	158.7	72.0	(7x0.193) BC	24	0.22 + 0.50			0.264	6.70	
SEC0020	12/2	328	100	172.0	78.0	(7x0.193) BC	24	0.22 + 0.50			0.272	6.90	
SEC0021	2/2	328	100	97.0	44.0	(7x0.193) BC	24	0.22 + 0.75			0.205	5.20	
SEC0022	4/2	328	100	114.6	52.0	(7x0.193) BC	24	0.22 + 0.75			0.220	5.60	
SEC0023	6/2	328	100	132.3	60.0	(7x0.193) BC	24	0.22 + 0.75			0.244	6.20	
SEC0024	8/2	328	100	143.3	65.0	(7x0.193) BC	24	0.22 + 0.75			0.252	6.40	
SEC0025	10/2	328	100	158.7	72.0	(7x0.193) BC	24	0.22 + 0.75			0.264	6.70	
SEC0026	12/2	328	100	174.2	79.0	(7x0.193) BC	24	0.22 + 0.75			0.283	7.20	

TC = Tinned Copper • 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 ²		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

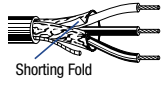


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

PVC Insulation • Grey PVC Jacket

300V 75°C	NEC: CMR CEC: CMG FT4						0.76 mm 22 AWG (7x30) BC	0.040	1.01	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below	
--------------	--------------------------------	--	--	--	--	--	--------------------------------	-------	------	---	--	-----------------	--



5500FE	2 CDR	C-500	C-152	5.5	2.5						0.130	3.30		
		U-500	U-152	6.6	3.0									
		500	152	6.6	3.0									
		U-1000	U-305	11.9	5.4									
		1000	305	11.9	5.4									
5501FE	3 CDR	C-500	C-152	7.1	3.2						0.138	3.51		
		U-500	U-152	7.9	3.6									
		500	152	7.5	3.4									
		U-1000	U-305	15.0	6.8									
		1000	305	15.0	6.8									
5502FE	4 CDR	C-500	C-152	8.6	3.9						0.152	3.86		
		U-500	U-152	9.5	4.3									
		500	152	9.5	4.3									
		U-1000	U-305	18.1	8.2									
		1000	305	18.1	8.2									
5503FE	5 CDR	1000	305	22.0	10.0						0.165	4.19		
5504FE	6 CDR	C-500	C-152	13.4	6.1						0.179	4.55		
		U-500	U-152	15.0	6.8									
		U-1000	U-305	29.1	13.2									
		1000	305	29.1	13.2									
5506FE	8 CDR	U-500	U-152	16.5	7.5						0.196	4.98		
		U-1000	U-305	32.0	14.5									
		1000	305	32.0	14.5									
5508FE	10 CDR	U-500	U-152	19.6	8.9						0.230	5.84		
		U-1000	U-305	37.9	17.2									
		1000	305	44.1	20.0									

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
10	Grey

Security and Alarm Cables

Commercial Applications Shielded

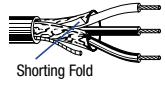


De- scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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		
--------------	-------------	--	--	--	--	--	--------------------------------	-------	------	---	-----------------	--	--



4500FE	2 CDR	328 1640	100 500	4.0 19.6	1.8 8.9						0.130	3.30	
4501FE	3 CDR	328 1640	100 500	4.6 23.1	2.1 10.5						0.138	3.50	
4502FE	4 CDR	328 1640	100 500	6.0 29.3	2.7 13.3						0.154	3.90	
4504FE	6 CDR	328 1640	100 500	7.7 38.6	3.5 17.5						0.181	4.60	
4506FE	8 CDR	328 1640	100 500	9.7 48.7	4.4 22.1						0.197	5.00	
4508FE	10 CDR	U-500 1000	U-152 305	10.8 53.6	4.9 24.3						0.197	5.00	

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

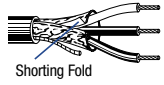


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

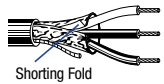
300V 75°C	NEC: CMR CEC: CMG FT4						0.96 mm 20 AWG (7x28) BC	0.048	1.21	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below
----------------------	--------------------------------	--	--	--	--	--	--------------------------------	-------	------	---	--	-----------------



5400FE	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
5401FE	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
5402FE	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
5403FE	5 CDR	U-1000 1000	U-305 305	30.0 30.0	13.6 13.6						0.184	4.67
5405FE	7 CDR	U-1000 1000	U-305 305	39.0 40.1	17.7 18.2						0.201	5.11
5407FE	9 CDR	1000	305	51.1	23.2						0.236	5.99

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
----------------------	-------------	--	--	--	--	--	--------------------------------	-------	------	---	--	-----------------



4400FE	2 CDR	328 1640	100 500	4.6 23.6	2.1 10.7						0.146	3.70
4401FE	3 CDR	328 1640	100 500	6.0 30.0	2.7 13.6						0.154	3.90
4402FE	4 CDR	328 1640	100 500	7.5 37.9	3.4 17.2						0.169	4.30
4403FE	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

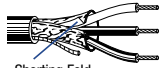


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

PVC Insulation • Grey PVC Jacket

300V
75°C
NEC:
CMR
CEC:
CMG FT4
1.22 mm
18 AWG
(7x26) BC
0.058
1.47
Overall
Beldfoil®
+ Drain Wire
(24 AWG TC)
see chart below



Shorting Fold

5300FE	2 CDR	C-500	C-152	11.0	5.0	0.165	4.19						
		U-500	U-152	12.1	5.5								
		500	152	12.1	5.5								
		U-1000	U-305	22.9	10.4								
1000	305	22.9	10.4										
5301FE	3 CDR	U-500	U-152	15.4	7.0	0.175	4.45						
		500	152	15.0	6.8								
		U-1000	U-305	30.0	13.6								
		1000	305	30.0	13.6								
5302FE	4 CDR	C-250	C-76	8.8	4.0	0.192	4.88						
		U-500	U-152	19.0	8.6								
		500	152	20.5	9.3								
		U-1000	U-305	35.9	16.3								
1000	305	37.0	16.8										
5303FE	5 CDR	U-500	U-152	22.5	10.2	0.211	5.36						
		500	152	22.5	10.2								
		U-1000	U-305	43.0	19.5								
		1000	305	45.2	20.5								
5304FE	6 CDR	U-500	U-152	28.4	12.9	0.230	5.84						
		500	152	26.0	11.8								
		1000	305	57.1	25.9								
		1000	305	57.1	25.9								
5305FE	7 CDR	1000	305	57.1	25.9	0.230	5.84						
5306FE	8 CDR	500	152	32.0	14.5	0.270	6.86						
		1000	305	64.2	29.1								
Also available in Natural.													
5307FE	9 CDR	1000	305	71.2	32.3	0.272	6.91						

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	

18 AWG • Stranded (7x26) 1.2 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						1.22 mm 18 AWG (7x26) BC	0.068	1.72	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below	
----------------------	-------------	--	--	--	--	--	--------------------------------	-------	------	---	--	-----------------	--



Shorting Fold

4300FE	2 CDR	328 1640	100 500	7.1 35.5	3.2 16.1						0.165	4.20	
4301FE	3 CDR	328 1640	100 500	9.3 45.9	4.2 20.8						0.177	4.50	
4302FE	4 CDR	328 1640	100 500	11.7 58.2	5.3 26.4						0.193	4.90	
4303FE	5 CDR	328 1640	100 500	12.8 63.7	5.8 28.9						0.193	4.90	
4304FE	6 CDR	328 1640	100 500	16.5 82.7	7.5 37.5						0.228	5.80	
4306FE	8 CDR	328 1640	100 500	20.5 102.7	9.3 46.6						0.272	6.90	
4307FE	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.	No. of Cond. (CDR)	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 ²		inch	mm	

18 AWG • Stranded (32x0.20) 1.2 mm Bare Copper • Overall Alufoil • Color Coded

PVC Insulation • White Flame-Resistant PVC Jacket (Color Code: see chart 11, Tech Info Section)

500V										Overall Alufoil			<ul style="list-style-type: none"> - Alarm systems - Smoke survey - Fire survey - Industrial checks
------	--	--	--	--	--	--	--	--	--	--------------------	--	--	---



LiY (St) Y	Part No.	No. of Cond.	ft.	m	lbs.	kg	Conductor (Stranding) Diameter Nom. DCR	AWG	Section mm ²	inch	mm
	SEC0047	2	328	100	110.2	50.0	(20x0.243) BC	17	1.00	0.220	5.60
	SEC0048	3	328	100	132.3	60.0	(20x0.243) BC	17	1.00	0.256	6.50
	SEC0049	4	328	100	187.4	85.0	(20x0.243) BC	17	1.00	0.276	7.00
	SEC0050	5	328	100	220.5	100.0	(20x0.243) BC	17	1.00	0.319	8.10

BC = Bare Copper • DCR = DC resistance

20 • New Generation® Cables

Security and Alarm Cables

Commercial Applications Shielded

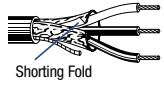


De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

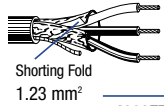
300V 75°C	NEC: CMR CEC: CMG FT4						1.47 mm 16 AWG (19x29) BC	0.068	1.72	Overall Beldfoil® + Drain Wire (18 AWG TC)			
--------------	--------------------------------	--	--	--	--	--	---------------------------------	-------	------	---	--	--	--



5200FE	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.														
5201FE	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									
5202FE	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)			
--------------	----------------	--	--	--	--	--	---------------------------------	-------	------	---	--	--	--



4200FE	2 CDR	328	100	9.7	4.4						0.189	4.80	Black, Red
		1640	500	48.1	21.8								
		328	100	11.9	5.4							0.201	5.10
4201FE	3 CDR	1640	500	59.5	27.0								
		328	100	15.2	6.9							0.220	5.60
4202FE	4 CDR	1640	500	75.8	34.4								

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

Security and Alarm Cables

Commercial Applications Shielded

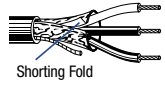


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

14 AWG • Stranded (19x27) 1.9 mm Bare Copper • Beldfoil® Shield • 16 AWG Tinned Copper Drain Wire

PVC Insulation • Grey PVC Jacket

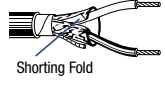
300V 75°C		NEC: CL3R					1.85 mm 14 AWG (19x27) BC	0.087	2.21	Overall Beldfoil® + Drain Wire (16 AWG TC)			
--------------	--	--------------	--	--	--	--	---------------------------------	-------	------	---	--	--	--



5100FE	2 CDR		500	152	28.4	12.9					0.238	6.05	Black, White
			U-1000	U-305	48.9	22.2							
			1000	305	51.1	23.2							
5101FE	3 CDR		1000	305	66.1	30.0					0.253	6.43	Black, White, Red

Polyethylene Insulation • Grey FRNC/LSNH Jacket

300V 70°C	4100FE	IEC 60754-2	328	100	14.3	6.5	1.85 mm 14 AWG (19x27) BC	0.099	2.52	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.240	6.10	Black, White
--------------	---------------	----------------	-----	-----	------	-----	---------------------------------	-------	------	---	-------	------	--------------

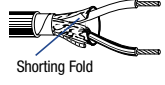


2 CDR

12 AWG • Stranded (19x25) 2.4 mm Bare Copper • Beldfoil® Shield • 16 AWG Tinned Copper Drain Wire

PVC Insulation • Grey PVC Jacket

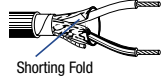
300V 75°C	5000FE	NEC: CL3R	500	152	36.6	16.6	2.36 mm 12 AWG (19x25) BC	0.107	2.72	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.272	6.91	Black, White
--------------	---------------	--------------	-----	-----	------	------	---------------------------------	-------	------	---	-------	------	--------------



2 CDR

Polyethylene Insulation • Grey FRNC/LSNH Jacket

300V 70°C	4000FE	IEC 60754-2	328	100	19.2	8.7	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

20 • New Generation® Cables

Security and Alarm Cables

Water-Blocked for Use in Underground Ducts
Unshielded and 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	

18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • Overall Water-Blocking Tape • Numbered and Color Coded • Rip Cord

PVC Insulation • Grey PVC Jacket

300V 105°C	5300U1	NEC:	U-500	U-152	12.1	5.5	1.22 mm	0.058	1.47	Unshielded	0.207	5.26	Black, Red
		CM	500	152	13.4	6.1	18 AWG						
		CEC:	U-1000	U-305	22.0	10.0	(7x26) TC						
		CM FT1	1000	305	24.0	10.9							

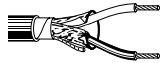


2 CDR

22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Beldfoil® Shield • Overall Water-Blocking Tape • Numbered and Color Coded

PVC Insulation • Grey PVC Jacket

300V 105°C	5500F1	NEC:	U-500	U-152	9.0	4.1	0.76 mm	0.058	1.47	Overall Beldfoil®	0.192	4.88	Black, Red
		CM	500	152	9.0	4.1	22 AWG						
		CEC:	U-1000	U-305	16.1	7.3	(7x30) TC						
		CM FT1	1000	305	17.0	7.7							



2 CDR

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Beldfoil® Shield • Overall Water-Blocking Tape • Numbered and Color Coded

PVC Insulation • Grey PVC Jacket

300V 105°C	5400F1	NEC:	U-500	U-152	11.5	5.2	0.96 mm	0.048	1.21	Overall Beldfoil®	0.206	5.23	Black, Red
		CM	500	152	11.0	5.0	20 AWG						
		CEC:	U-1000	U-305	20.9	9.5	(7x28) TC						
		CM FT1	1000	305	20.9	9.5							



2 CDR

18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • Beldfoil® Shield • Overall Water-Blocking Tape • Numbered and Color Coded

PVC Insulation • Grey PVC Jacket

300V 105°C	5300F1	NEC:	U-500	U-152	15.0	6.8	1.22 mm	0.058	1.47	Overall Beldfoil®	0.222	5.64	Black, Red
		CM	500	152	15.0	6.8	18 AWG						
		CEC:	U-1000	U-305	29.1	13.2	(7x26) TC						
		CM FT1	1000	305	30.0	13.6							



2 CDR

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

Security and Alarm Cables

Commercial Applications Unshielded Twisted Pairs

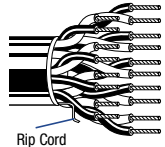


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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
--------------	--	-------------------------------	--	--	--	--	--------------------------------	-------	------	------------	--	-----------------

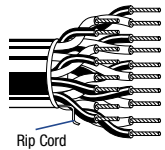


5541UE	2-Pair	U-1000 1000	U-305 305	18.1 19.0	8.2 8.6						0.206	5.23
5542UE	3-Pair	U-500 U-1000 1000	U-152 U-305 305	13.0 24.0 25.1	5.9 10.9 11.4						0.220	5.59
5543UE	4-Pair	U-1000 1000	U-305 305	32.0 32.0	14.5 14.5						0.243	6.17
5547UE	9-Pair	1000	305	70.1	31.8						0.334	8.48

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

PVC Insulation • Grey PVC Jacket

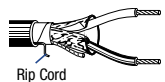
300V 75°C		NEC: CMR CEC: CM FT4					1.22 mm 18 AWG (7x26) BC	0.058	1.47	Unshielded		see chart below
--------------	--	-------------------------------	--	--	--	--	--------------------------------	-------	------	------------	--	-----------------



5341UE	2-Pair	U-1000 1000	U-305 305	34.0 36.2	15.4 16.4						0.266	6.76
5342UE	3-Pair	U-1000 1000	U-305 305	48.1 50.0	21.8 22.7						0.283	7.19
5343UE	4-Pair	1000	305	67.2	30.5						0.320	8.13
5345UE	6-Pair	1000	305	96.1	43.6						0.362	9.19
5347UE	9-Pair	1000	305	140.2	63.6						0.434	11.02

Polyethylene Insulation • Grey FRNC/LSNH Jacket

300V 75°C	4341UE	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
--------------	---------------	----------------	-------------	------------	--------------	-------------	--------------------------------	-------	------	------------	-------	------	-----------------



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

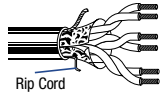


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

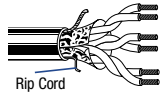
300V 75°C	NEC: CMR CEC: CM FT4						0.76 mm 22 AWG (7x30) BC	0.040	1.01	Overall Beldfoil® + Drain Wire (24 AWG TC)		see chart below
--------------	-------------------------------	--	--	--	--	--	--------------------------------	-------	------	---	--	-----------------



5541FE	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
5542FE	3-Pair	U-1000 1000	U-305 305	27.1 29.1	12.3 13.2						0.223	5.66
5543FE	4-Pair	1000	305	34.0	15.4						0.246	6.25
5545FE	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
--------------	--	--	--	--	--	--	--------------------------------	-------	------	---	--	-----------------

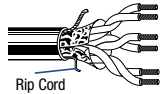


4541FE	2-Pair	328 1640	100 500	6.2 31.5	2.8 14.3						0.209	5.30
4542FE	3-Pair	328 1640	100 500	7.7 39.0	3.5 17.7						0.224	5.70
4545FE	6-Pair	328 1640	100 500	13.9 69.4	6.3 31.5						0.280	7.10

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
--------------	-------------------------------	--	--	--	--	--	--------------------------------	-------	------	---	--	-----------------



5441FE	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
5442FE	3-Pair	U-1000 1000	U-305 305	37.9 37.9	17.2 17.2						0.252	6.40
5445FE	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		
--------------	-------------	--	--	--	--	--	--------------------------------	-------	------	---	-----------------	--	--



4441FE	2-Pair	328 1640	100 500	7.7 39.0	3.5 17.7							0.236	6.00
4445FE	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		
--------------	-------------------------------	--	--	--	--	--	--------------------------------	-------	------	---	-----------------	--	--



5341FE	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
5342FE	3-Pair	1000	305	52.0	23.6							0.275	6.99
5343FE	4-Pair	1000	305	70.1	31.8							0.318	8.08
5345FE	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		
--------------	-------------	--	--	--	--	--	--------------------------------	-------	------	---	-----------------	--	--



4341FE	2-Pair	328 1640	100 500	13.7 68.6	6.2 31.1							0.264	6.70
4342FE	3-Pair	1640	500	82.0	37.2							0.276	7.00
4343FE	4-Pair	1640	500	103.0	46.7							0.319	8.10
4345FE	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

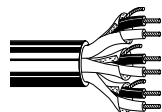


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

PVC Insulation • Grey PVC Jacket

300V 75°C	5543PE	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

<p>Shorting Fold</p>	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)			
	5501GE	1 STP +1/C	U-1000	U-305	16.1	7.3					0.171	4.34	Black & Red (shielded pair), White
	5502GE	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
	5542GE	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

<p>Shorting Fold</p>	300V 70°C	4502GE 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

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

<p>Shorting Fold</p>	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)			
	5401GE	1 STP +1/C	1000	305	22.9	10.4					0.196	4.98	Black & Red (shielded pair), White
	5402GE	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

<p>Shorting Fold</p>	300V 70°C	5302GE 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

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. (Ω)	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

5-Cell Gas-Injected Polyethylene Insulation • Black PVC Jacket																				
80°C	H109A00		328	100	10.4	4.7	1.0 mm	0.185	4.70	Cu-foil + 55% BC Braid 15.0 Ω/km*** 5.2 mm	0.262	6.65	75	80%	17.1	56.0	5	0.5	1.6	
		820	250	26.0	11.8	Solid BC												50	1.4	4.6
		1640	500			41.0 Ω/km*												100	2.0	6.5
						26.0 Ω/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		470-862 MHz: ≥ 20 dB		862-2150 MHz: ≥ 18 dB		Screening attenuation at 30-1000 MHz: ≥ 75 dB		Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m		Pulling Tension: 55 N						

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

Gas-Injected Polyethylene Insulation • PVC Jacket (Brown, Black and White)																				
80°C	H125A00		328	100	10.4	4.7	1.0 mm	0.189	4.80	Duofoil® + 40% TC Braid 27.0 Ω/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 Ω/km*												100	2.0	6.5
						23.0 Ω/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		470-862 MHz: ≥ 20 dB		862-2150 MHz: ≥ 18 dB		Screening attenuation at 30-1000 MHz: ≥ 75 dB		Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m		Pulling Tension: 55 N						

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

Gas-Injected Polyethylene Insulation • PVC Jacket (Brown, Black and White)																				
80°C	H121A00		328	100	15.1	6.9	0.8 mm	0.138	3.50	Duofoil® + 40% TC Braid 40.0 Ω/km*** 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 Ω/km*												100	2.0	8.1
						35.0 Ω/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		470-862 MHz: ≥ 18 dB		862-2150 MHz: ≥ 16 dB		Screening attenuation at 30-1000 MHz: ≥ 75 dB		Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m		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. (Ω)	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	
25 AWG • Solid 0.5 mm Bare Copper • 94 % Bare Copper Braid																				
Gas-Injected Foam PE Insulation • PVC Jacket (Brown, Red, Yellow, Green, Blue, White and Black)																				
75°C	573945	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 Ω/km* 83.3 Ω/km**	0.085	2.16	94% BC Braid 18.4 Ω/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		
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																				
70°C	473945	IEC 60754-2	328 1640	100 500	4.6 23.1	2.1 10.5	0.46 mm 25 AWG Solid BC 101.7 Ω/km* 83.3 Ω/km**	0.085	2.16	95% BC Braid 18.4 Ω/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		
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • 95 % Bare Copper Braid																				
Gas-Injected Foam PE Insulation • Black PVC Jacket																				
75°C	551945	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 Ω/km* 40.7 Ω/km**	0.140	3.56	95% BC Braid 8.5 Ω/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		
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																				
70°C	451945	IEC 60754-2	328 1640	100 500	8.2 41.2	3.7 18.7	0.76 mm 22 AWG (7x30) BC 49.2 Ω/km* 40.7 Ω/km**	0.140	3.56	95% BC Braid 8.5 Ω/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		
20 AWG • Solid 0.8 mm Bare Copper • 95 % Bare Copper Braid																				
Gas-Injected Foam PE Insulation • PVC Jacket (White or Black)																				
75°C	543945	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 Ω/km* 21.4 Ω/km**	0.145	3.68	95% BC Braid 11.4 Ω/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. (Ω)	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 • 95 % Bare Copper Braid


Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																						
70°C	443945	IEC	328	100	10.6	4.8	0.81 mm	0.145	3.68	95% BC	0.232	5.90	75	83%	16.3	53.5	1	0.3	1.0			
			60754-2	1640	500	52.5											23.8	20 AWG	11.4 Ω/km***	5	0.7	2.1
			RG-59	CEC:	CM FT1	1000	305	41.0	18.6	Solid BC	20.9 Ω/km*	10.8 Ω/km**	10.1 Ω/km***	100	200	400	700	900		1000	10	2.0
																			50		1.9	6.2
																			100		2.6	8.5
																			200		3.6	11.8
																			400		5.0	16.4
																			700		7.0	23.0
																			900		8.0	26.2
																			1000		8.5	27.9
Nominal Delay: 3.97 ns/m										Pulling Tension: 218 N												


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

Foam PE Insulation • PVC Jacket (White or Black)																						
75°C	533945	NEC:	500	152	20.9	9.5	1.02 mm	0.180	4.57	95% BC	0.266	6.76	75	83%	16.3	53.5	1	0.2	0.7			
			CM	U-1000	U-305	39.9											18.1	18 AWG	10.1 Ω/km***	5	0.5	1.5
			RG-6	CEC:	CM FT1	1000	305	41.0	18.6	Solid BC	20.9 Ω/km*	10.8 Ω/km**	10.1 Ω/km***	100	200	400	700	900		1000	10	2.0
																			50		1.5	4.8
																			100		2.1	6.9
																			200		3.0	9.8
																			400		4.3	14.1
																			700		5.8	19.0
																			900		6.7	22.0
																			1000		7.1	23.3
Nominal Delay: 4.003 ns/m										Pulling Tension: 507 N												

Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																						
70°C	433945	IEC	328	100	13.4	6.1	1.02 mm	0.180	4.57	95% BC	0.266	6.75	75	83%	16.3	53.5	see above					
			60754-2	1640	500	67.2											30.5	18 AWG	10.1 Ω/km***	5	0.5	1.5
			RG-6	CEC:	CM FT1	1000	305	41.0	18.6	Solid BC	20.9 Ω/km*	10.8 Ω/km**	10.1 Ω/km***	100	200	400	700	900		1000	10	2.0
																			50		1.5	4.8
																			100		2.1	6.9
																			200		3.0	9.8
																			400		4.3	14.1
																			700		5.8	19.0
																			900		6.7	22.0
																			1000		7.1	23.3
Nominal Delay: 4.003 ns/m										Pulling Tension: 507 N												

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

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

Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																						
70°C	413945	IEC	500	152	100.0	14.5	1.63 mm	0.280	7.11	95% BC	0.406	10.30	75	84%	16.1	52.8	see above					
			60754-2	1640	500	159.4											72.3	14 AWG	3.9 Ω/km***	5	0.5	1.5
			RG-11	CEC:	CM FT1	1000	305	98.1	44.5	Solid BC	8.5 Ω/km*	4.6 Ω/km**	3.9 Ω/km***	100	200	400	700	900		1000	10	2.0
																			50		1.5	4.8
																			100		2.1	6.9
																			200		3.0	9.8
																			400		4.3	14.1
																			700		5.8	19.0
																			900		6.7	22.0
																			1000		7.1	23.3
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. (Ω)	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	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 Ω/km* 24.6 Ω/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



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	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 Ω/km* 10.8 Ω/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



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. (Ω)	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 10.1 Ω/km***	0.266	6.76	75	83%	16.3	53.5	5	0.8	2.7
		CM:	500	152	15.4	7.0	18 AWG	211	1.6								5.3		
		CEC:	U-1000	U-305	34.0	15.4	Solid BC	270	2.0								10.1		
		CM FT1	1000	305	35.1	15.9	20.9 Ω/km*	300	3.7								11.5		
							10.8 Ω/km**	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 10.1 Ω/km***	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 Ω/km*												
						10.8 Ω/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 Duofoil® + 40% AL Braid 10.1 Ω/km***	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 Ω/km*												
							10.8 Ω/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 Duofoil® + 40% AL Braid 10.1 Ω/km***	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 Ω/km*												
						10.8 Ω/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 10.1 Ω/km***	0.270	6.86	75	83%	16.3	53.5	4	0.6	2.0
		CM:	1000	305	29.1	13.2	18 AWG	30	1.3								4.4		
		CEC:					Solid BC	211	2.0								10.1		
		CM FT1					20.9 Ω/km*	270	3.5								11.5		
							10.8 Ω/km**	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



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



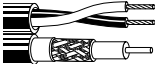
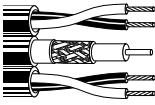

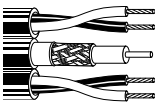
De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Compo- nent	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD		
			ft.	m	lbs.	kg		inch	mm						inch	mm	
Composite • (1) Pair Unshielded 18 AWG • (1) Coax Solid 0.8 mm Bare Copper • 95 % Bare Copper Braid																	
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																	
300V 75°C	549945	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																	
PVC Insulation (Pairs) • Foam Insulation (Coax) • Grey FRNC/LSNH Jacket																	
300V 70°C	449945	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																	
Composite • (1) Pair Unshielded 18 AWG • (1) Coax Solid 1.0 mm Bare Copper • 95 % Bare Copper Braid																	
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																	
300V 75°C	539945	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																	
PVC Insulation (Pairs) • Foam Insulation (Coax) • Grey FRNC/LSNH Jacket																	
300V 70°C	439945	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

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 Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm
Composite • (2) Conductor 26 AWG • (1) Coax Solid 0.4 mm Bare Copper • Alu Triplex/Duplex • 72%Tinned Copper Braid																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0001		328	100	11.7	5.3	Unshielded	0.252	6.40	1xData	2 Conductor 26 AWG 0.50 mm (16x0.193) BC	Unshielded	PVC 1.90 mm	PVC	0.062	1.57
										1xCoax	21 AWG 0.41 mm Solid BC	Alu Triplex/Duplex 72% TC Braid	Foam Polyethylene	PVC	0.142	3.60
Composite • (2) Conductor 16 AWG • (1) Coax Solid 0.8 mm BC • Alu Triplex/Duplex • 55%Tinned Copper Braid • (2) Conductor 26 AWG																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0002		328	100	29.8	13.5	Unshielded	0.315	8.00	1xData	2 Conductor 16 AWG 1.50 mm (30x0.25) BC	Unshielded	PE 3.50 mm	PVC	0.101	2.56
										1xCoax	20 AWG 0.81 mm Solid BC	Alu Triplex/Duplex 55% TC Braid	Foam Polyethylene	PVC	0.142	3.60
										1xControl	2 Conductor 26 AWG 0.50 mm (16x0.20) BC	Unshielded	PE 3.50 mm	PVC	0.062	1.57
Composite • (2) Conductor 20 AWG • (1) Coax Solid 0.4 mm Bare Copper • Alu Triplex/Duplex • 72%Tinned Copper Braid																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0003		328	100	14.8	6.7	Unshielded	0.291	7.40	1xData	2 Conductor 20 AWG 1.00 mm (32x0.20) BC	Unshielded	PVC 1.90 mm	PVC	0.085	2.17
										1xCoax	26 AWG 0.41 mm Solid BC	Alu Triplex/Duplex 72% TC Braid	Foam Polyethylene	PVC	0.142	3.60
Composite • (2) Conductor 24 AWG • (1) Coax Solid 0.4 mm BC • Alu Triplex/Duplex • 72%Tinned Copper Braid • (2) Conductor 26 AWG																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0004		328	100	13.4	6.1	Unshielded	0.260	6.60	1xData	2 Conductor 24 AWG 0.22 mm (30x0.25) BC	Unshielded	PVC 1.90 mm	PVC	0.045	1.15
										1xCoax	26 AWG 0.41 mm Solid BC	Alu Triplex/Duplex 72% TC Braid	Foam Polyethylene	PVC	0.142	3.60
										1xControl	2 Conductor 26 AWG 0.50 mm (16x0.20) BC	Unshielded	PE 3.50 mm	PVC	0.062	1.57

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

Security Composite Cables

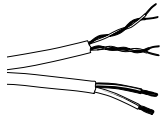
CCTV PTZ Camera Cable



De-scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm

Composite • (1) **2-Pair UTP** 24 AWG • (2) **16 AWG** (19x29) 1.47 mm Tinned Copper Conductors

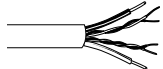
Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • PVC Jacket (White or Black)																
5284US	NEC:	500	152	25.5	11.6	Unshielded	0.426	10.80	1xData	2-Pair UTP 24 AWG 0.50 mm Solid BC	Unshielded	Polyolefin	F-R PVC	0.200	5.08	
	CMR:	1000	305	44.0	20.0											
										2xPower	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC 2.03 mm	PVC	0.226	5.74



Jacket sequentially marked.

Composite • (1) **2-Pair UTP** 23 AWG • (2) **16 AWG** (19x29) 1.47 mm Tinned Copper Conductors

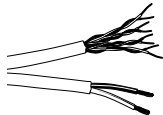
Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • PVC Jacket (White or Black)																
5284UE	NEC:	500	152	22.5	10.2	Unshielded	0.233	5.92	1xData	2-Pair UTP 23 AWG 0.60 mm Solid BC	Unshielded	Polyolefin 1.01 mm	-	-	-	
	CMR:	1000	305	44.0	20.0											
										2xPower	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PP 1.96 mm	-	-	-



Jacket sequentially marked.

Composite • (1) **Cat 5e 4-Bonded-Pair UTP** 24 AWG • (2) **16 AWG** (19x29) 1.47 mm Tinned Copper Conductors

Polyolefin Insulation (Pairs) • PVC Insulation (Conductors) • PVC Jacket (White or Black)																
5288US	NEC:	500	152	27.5	12.5	Unshielded	0.424	10.80	1xData	4-Pair UTP 24 AWG 0.50 mm Solid BC	Unshielded	Polyolefin	F-R PVC	0.198	5.03	
	CMR:	1000	305	52.0	23.6											
										2xPower	2-Conductor 16 AWG 1.47 mm (19x29) TC	Unshielded	PVC 2.03 mm	PVC	0.226	5.74



Jacket sequentially marked.

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

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Security Composite Cables

CCTV Fixed and PTZ Camera Cable



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		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			ACR dB/100m	Min. RL dB		
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m				
DataTwist® Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper Conductors • Rip Cord																					
Polyolefin Insulation • Flexible Matte Black PVC Jacket • Category 5e																					
<p>Rip Cord</p> <p>4-Pair</p>	1583E		B-328	B-100	6.1	2.8	0.51 mm 24 AWG Solid BC	0.035	0.90	Non- Bonded-Pair Unshielded U/UTP	0.197	5.00	1	2.1	62.0	60.2	61.0	63.2	20.0		
			U-1000	U-305	18.7	8.5									4	4.0	53.0	49.3	49.0	52.3	23.0
			1000	305	18.7	8.5									8	5.7	49.0	43.1	43.0	46.1	24.5
			1640	500	30.9	14.0									10	6.3	47.0	41.0	41.0	44.0	25.0
			3280	1000	61.7	28.0									16	8.0	44.0	36.2	37.0	39.2	25.0
															20	9.0	43.0	33.8	35.0	36.8	23.6
															25	10.1	41.0	31.2	33.0	34.2	24.3
															31.25	11.4	40.0	28.5	31.0	31.5	23.6
															62.5	16.5	35.0	18.8	25.0	21.8	21.5
															100	21.3	32.0	11.0	21.0	14.0	20.1
Input Impedance (Ω) 100 + 15%										Color Code: see chart below											
500 m put-up available in Grey only.										Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2											

DataTwist® Cat 5e+ • 24 AWG • Solid 0.5 mm Bare Copper Conductors • Rip Cord																					
Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, White, Blue and Dark Grey)																					
<p>Rip Cord</p> <p>4-Pair</p>	1500A	NEC: CM CEC: CM	A-1000	A-305	26.0	11.8	0.51 mm 24 AWG Solid BC	0.035	0.89	Non- Bonded-Pair Unshielded U/UTP	0.190	4.83	1	2.0	65.3	63.3	60.8	-	20.0		
			1000	305	22.9	10.4									4	4.0	56.3	52.3	48.7	-	23.0
															8	5.7	51.8	46.1	42.7	-	24.5
															10	6.4	50.3	43.9	40.8	-	25.0
															16	8.1	47.3	39.1	36.7	-	25.0
															25	10.3	44.3	34.1	32.8	-	24.3
															31.25	11.6	42.9	31.3	30.9	-	23.6
															62.5	16.8	38.4	21.6	24.8	-	21.5
															100	21.7	35.3	17.1	20.8	-	20.1
															155	27.7	32.5	4.7	16.9	-	19.0
				200	32.0	30.8	3.0	14.7	-	19.0											
				250	36.4	29.3	-	12.8	-	18.0											
				300	44.3	27.2	-	9.9	-	17.0											
Input Impedance (Ω) 1-16: 100 + 12%										Color Code: see chart below											
25-100: + 15%										Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2											
155: + 18%																					
200-250: + 20%																					
350: + 22%																					

DataTwist® Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper Conductors • Central Rod Filler • Rip Cord																														
Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, White, Blue and Dark Grey)																														
<p>Rip Cord</p> <p>4-Pair</p>	7881A	NEC: CM CEC: CMR FT4	A-1000	A-305	33.1	15.0	0.57 mm 23 AWG Solid BC	0.043	1.09	Non- Bonded-Pair Unshielded U/UTP	0.235	5.97	1	2.0	72.3	70.3	64.8	-	20.0											
			1000	305	30.0	13.6									10	6.0	57.3	51.3	44.8	-	25.0									
															20	8.5	52.8	44.3	38.7	-	25.0									
															31.25	10.7	49.9	39.2	34.9	-	23.6									
															62.5	15.4	45.4	30.0	28.8	-	21.5									
															100	19.8	42.3	22.5	24.8	-	20.1									
															200	29.0	37.8	8.8	18.7	-	18.0									
															250	32.8	36.3	3.5	16.8	-	17.3									
			Input Impedance (Ω) 1-100: 100 + 15%												Color Code: see chart below															
			200: + 22%												Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2															
250: + 32%																														

BC = Bare Copper • DCR = DC resistance


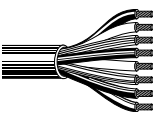

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown

Security Composite Cables

Video Control System Cables



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 Insulation OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm
Composite • (3) Conductor 20 AWG • (1) Coax Solid 0.6 mm Bare Copper • 55% Tinned Copper Braid • (9) Conductor 20 AWG																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0005		328	100	48.5	22.0	Unshielded	0.472	12.00	Power	3 Conductor 20 AWG 1.00 mm (20x0.243) BC	Unshielded	PVC	PVC	0.085	2.17
										Coax	23 AWG 0.58 mm Solid BC	55% TC Braid	PE 3.70 mm	PVC	0.146	3.70
										Control	9 Conductor 22 AWG 0.75 mm (22x0.193) BC	Unshielded	PVC	PVC	0.070	1.77
Composite • (2) Conductor 16 AWG • (3) Pair 28 AWG																
PVC Insulation • Grey PVC Jacket																
	SEC0006		328	100	26.5	12.0	Unshielded	0.374	9.50	Power	2 Conductor 16 AWG 1.50 mm (30x0.25) BC	Unshielded	PVC	PVC	0.101	2.56
										Control	3-Pair 28 AWG 0.35 mm (11x0.193) BC	Unshielded	PVC	PVC	0.056	1.42
Composite • (2) Conductor 22 AWG • (1) Coax Solid 0.75 mm BC • 80% Tinned Copper Braid • (6) Conductor 26 AWG • (3) Pair 28 AWG																
PVC Insulation (Conductors) • Gas-Injected PE Insulation (Coax) • Grey PVC Jacket																
	SEC0007		328	100	36.4	16.5	Unshielded	0.421	10.70	Power	2 Conductor 22 AWG 0.75 mm (22x0.193) BC	Unshielded	PE	PVC	0.070	1.77
										Coax	21 AWG 0.75 mm Solid BC	80% TC Braid	PE	PVC	0.134	3.40
										Data	6 Conductor 26 AWG 0.50 mm (16x0.193) BC	Unshielded	PE	PVC	0.062	1.57
										Control	3-Pair 28 AWG 0.35 mm (11x0.193) BC	Unshielded	PE	PVC	0.056	1.42

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

20 • New Generation® Cables

Security Composite Cables

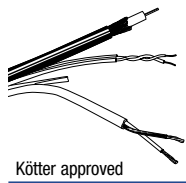
Banana Peel® PTZ Camera Cable Composite Cables Jacketless



De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm

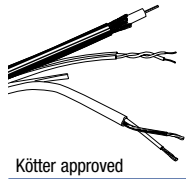
Composite • **(1) Coax** 20 AWG 0.8 mm • **(1) Pair Unshielded** 23 AWG 0.6 mm • **(2) CDR Unshielded** 18 AWG 1.2 mm • **Banana Peel®** Unjacketed, Bonded to Central Spine

PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																							
300V 75°C	500PTZ	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500	152	36.8	17.5	White, Blue	0.409	10.40	Video	1-Coax RG59/U 20 AWG 0.81 mm Solid BC	95% BC	Foam Polyethylene 5.76 mm	F-R PV Black	0.227	5.77							
			1000	305	71.2	32.3											Control	1-Pair 23 AWG 0.57 mm Solid BC	Unshielded	Polyolefin 1.04 mm	PVC Blue	0.118	3.00



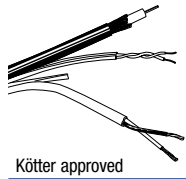
Composite • **(1) Coax** 20 AWG 0.8 mm • **(1) Pair Shielded** 22 AWG 0.6 mm • 22 AWG Drain Wire • **(2) CDR Unshielded** 18 AWG 1.2 mm • **Banana Peel®** Unjacketed, Bonded to Central Spine

PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																							
300V 75°C	501PTZ	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500	152	41.0	18.6	White/Blue Stripe, Blue	0.417	10.60	Video	1-Coax RG59/U 20 AWG 0.81 mm Solid BC	95% BC	Foam Polyethylene 5.76 mm	F-R PV Black	0.219	5.57							
			1000	305	76.1	34.5											Control	1-Pair 22 AWG 0.76 mm (7x30) BC	Overall Beldfoil® + Drain Wire (22 AWG TC)	Polyolefin 1.57 mm	PVC Blue	0.177	4.50



Composite • **(1) Coax** 20 AWG 0.8 mm • **(1) Pair Shielded** 18 AWG 1.2 mm • 20 AWG Drain Wire • **(2) CDR Unshielded** 18 AWG 1.2 mm • **Banana Peel®** Unjacketed, Bonded to Central Spine

PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																							
300V 75°C	502PTZ	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500	152	50.0	22.7	White/Blue Stripe, Blue	0.453	11.50	Video	1-Coax RG59/U 20 AWG 0.81 mm Solid BC	95% BC	Foam Polyethylene 5.76 mm	F-R PV Black	0.219	5.57							
			1000	305	93.9	42.6											Control	1-Pair 18 AWG 1.24 mm (19x30) BC	Overall Beldfoil® + Drain Wire (20 AWG TC)	Polyolefin 2.03 mm	PVC Blue	0.219	5.56



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

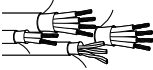
Security Composite Cables

Banana Peel® Access Control Composite Cables Jacketless



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

Composite • **4 CDR Beldfoil®** 18 AWG 1.22 mm • **3 Pair Beldfoil®** 22 AWG 0.8 mm • **2 CDR Beldfoil®** 22 AWG 0.8 mm • **4 CDR Beldfoil®** 22 AWG 0.8 mm • **Banana Peel®** Unjacketed, Bonded Central Spline

PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																	
 <p>Kötter approved</p>	300V 75°C	558AFS	NEC: CMR CEC: CMG	500	152	58.4	26.5	White, Black, Red, Green	0.448	11.38	Lock Power	4-Conductor 18 AWG 1.22 mm (7x26) BC	Overall Beldfoil®	PVC 2.89 mm	PVC Grey	0.202	5.13
				1000	305	108.0	49.0										
								White & Green, Orange & Brown, Red & Black			Card Reader	3-Pair 22 AWG 0.76 mm (7x30) BC	Overall Beldfoil®	PVC 1.25 mm	PVC Orange	0.233	5.92
								Black, Red			Door Contact	2-Conductor 22 AWG 0.76 mm (7x30) BC	Overall Beldfoil®	PVC 2.00 mm	PVC White	0.140	3.56
								White, Black, Red, Green			Rex/ Spare	4-Conductor 22 AWG 0.76 mm (7x30) BC	Overall Beldfoil®	PVC 2.00 mm	PVC Blue	0.161	4.09

BC = Bare Copper • DCR = DC resistance

Fire Alarm Cables
Commercial Applications
Power-Limited Unshielded

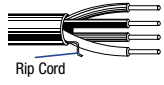


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

PVC Insulation • Red PVC Jacket

300V 75°C	NEC: FPLR CEC: CMG FT4						0.64 mm 22 AWG Solid BC	0.035	0.89	Unshielded		see chart below
--------------	---------------------------------	--	--	--	--	--	-------------------------------	-------	------	------------	--	-----------------

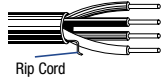


5522UL	4 CDR	C-500	C-152	7.1	3.2						0.125	3.18
		U-1000 1000	U-305 305	16.1 16.1	7.3 7.3							
5542UL	6 CDR	C-500	C-152	10.1	4.6						0.168	4.27
		U-1000	U-305	20.9	9.5							

18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • Rip Cord

PVC Insulation • Red PVC Jacket

300V 75°C	NEC: FPLR CEC: CMG FT4						1.02 mm 18 AWG Solid BC	0.050	1.27	Unshielded		see chart below
--------------	---------------------------------	--	--	--	--	--	-------------------------------	-------	------	------------	--	-----------------



5320UL	2 CDR	C-500	C-152	7.9	3.6						0.151	3.84
		U-500	U-152	9.0	4.1							
		500	152	9.0	4.1							
		U-1000 1000	U-305 305	18.1 17.0	8.2 7.7							
5322UL	4 CDR	C-250	C-76	7.1	3.2						0.176	4.47
		C-500	C-152	13.2	6.0							
		U-500	U-152	15.4	7.0							
		U-1000	U-305	30.0	13.6							
		1000	305	30.0	13.6							
5324UL	6 CDR	500	152	23.6	10.7						0.212	5.38
		U-1000	U-305	43.0	19.5							
		1000	305	44.1	20.0							
5326UL	8 CDR	1000	305	61.1	27.7						0.230	5.84
5328UL	10 CDR	1000	305	71.2	32.3						0.272	6.91
5329UL	12 CDR	1000	305	83.1	37.7						0.281	7.14

BC = Bare Copper • DCR = DC resistance

Color Code

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

Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

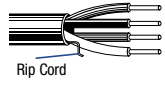


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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	
--------------	-------------	--	--	--	--	--	-------------------------------	-------	------	------------	--	-----------------	--



Part No.	Conductor	Length (ft.)	Length (m)	Weight (lbs.)	Weight (kg)	Nominal OD (inch)	Nominal 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

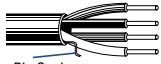


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Rip Cord

PVC Insulation • Red PVC Jacket

300V
75°C
NEC:
FPLR
CEC:
CMG FT4
1.29 mm
16 AWG
Solid BC
0.061 1.54 Unshielded



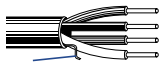
Rip Cord

5220UL	2 CDR	500	152	13.0	5.9	0.174	4.42	Black, Red
		U-1000 1000	U-305 305	24.0 25.1	10.9 11.4			

5222UL	4 CDR	1000	305	45.0	20.4	0.204	5.18	Black, Red, Brown, Blue
---------------	-------	------	-----	------	------	-------	------	-------------------------

Polyethylene Insulation • Red FRNC / LSNH Jacket

300V
70°C
IEC 60754-2
1.29 mm
16 AWG
Solid BC
0.077 1.95 Unshielded



Rip Cord

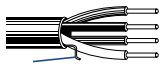
4220UL	2 CDR	328	100	7.7	3.5	0.173	4.40	Black, Red
		1640	500	38.4	17.4			

4222UL	4 CDR	1640	500	67.7	30.7	0.201	5.10	Black, Red, Brown, Blue
---------------	-------	------	-----	------	------	-------	------	-------------------------

14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • Rip Cord

PVC Insulation • Red PVC Jacket

300V
75°C
NEC:
FPLR
CEC:
CMG FT4
1.63 mm
14 AWG
Solid BC
0.077 1.96 Unshielded



Rip Cord

5120UL	2 CDR	500	152	19.0	8.6	0.213	5.41	Black, Red
		1000	305	38.1	17.3			

5122UL	4 CDR	1000	305	70.1	31.8	0.251	6.38	Black, Red, Brown, Blue
---------------	-------	------	-----	------	------	-------	------	-------------------------

Polyethylene Insulation • Red FRNC / LSNH Jacket

300V
70°C
IEC 60754-2
1.63 mm
14 AWG
Solid BC
0.085 2.15 Unshielded



Rip Cord

4120UL	2 CDR	328	100	11.2	5.1	0.213	5.40	Black, Red
		1640	500	56.0	25.4			

4122UL	4 CDR	328	100	19.8	9.0	0.252	6.40	Black, Red, Brown, Blue
		1640	500	99.9	45.3			

BC = Bare Copper • DCR = DC resistance

Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

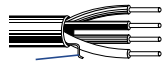


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

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

PVC Insulation • Red PVC Jacket

300V 75°C	5020UL	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
--------------	---------------	---------------------------------	------	-----	------	------	-------------------------------	-------	------	------------	-------	------	------------

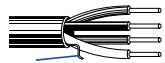


Rip Cord

2 CDR

Polyethylene Insulation • Red FRNC/LSNH Jacket

300V 70°C	4020UL	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
--------------	---------------	----------------	------	-----	------	------	-------------------------------	-------	------	------------	-------	------	------------



Rip Cord

2 CDR

BC = Bare Copper • DCR = DC resistance

20 • New Generation® Cables

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	

22 AWG • Solid 0.6 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord

PVC Insulation • Red PVC Jacket

300V 75°C	5522FL	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
--------------	---------------	---------------------------------	-------------------------	-----------------------	---------------------	-------------------	-------------------------------	---------------	--	---	---------------	--	-------------------------



Shorting Fold

4 CDR

18 AWG • Solid 1.0 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord

PVC Insulation • Red PVC Jacket

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)			
--------------	--	---------------------------------	--	--	--	--	-------------------------------	---------------	--	---	--	--	--



Shorting Fold

5320FL	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
---------------	-------	---	---------------------------------------	--------------------------------------	-----------------------------------	--	--	--	--	--	---------------	--	------------

5322FL	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
---------------	-------	--------------------------------	------------------------------	------------------------------	----------------------------	--	--	--	--	--	---------------	--	-------------------------

Polyethylene Insulation • Red FRNC / LSNH Jacket

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
--------------	--	-------------	--	--	--	--	-------------------------------	---------------	--	---	--	--	-------------------------



Shorting Fold

4320FL	4 CDR	328 1640	100 500	3.3 16.5	1.5 7.5						0.157 4.00		
---------------	-------	-------------	------------	-------------	------------	--	--	--	--	--	---------------	--	--

4322FL	4 CDR	328 1640	100 500	3.7 18.1	1.7 8.2						0.169 4.30		
---------------	-------	-------------	------------	-------------	------------	--	--	--	--	--	---------------	--	--

16 AWG • Solid 1.3 mm Bare Copper • Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord

PVC Insulation • Red PVC Jacket

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)			
--------------	--	---------------------------------	--	--	--	--	-------------------------------	---------------	--	---	--	--	--



Shorting Fold

5220FL	2 CDR	1000	305	29.1	13.2						0.178 4.52		Black, Red
---------------	-------	------	-----	------	------	--	--	--	--	--	---------------	--	------------

5222FL	4 CDR	1000	305	50.0	22.7						0.208 5.28		Black, Red, Brown, Blue
---------------	-------	------	-----	------	------	--	--	--	--	--	---------------	--	-------------------------

Polyethylene Insulation • Red FRNC / LSNH Jacket

300V 70°C	4220FL	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
--------------	---------------	-------------	-------------	------------	-------------	-------------	-------------------------------	---------------	--	---	---------------	--	------------



Shorting Fold

2 CDR

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

Fire Alarm Cables
Commercial Applications
Power-Limited Shielded

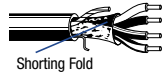


De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

14 AWG • Solid 1.6 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord

PVC Insulation • Red PVC Jacket

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)			
--------------	--	---------------------------------	--	--	--	--	-------------------------------	-------	------	---	--	--	--



Shorting Fold

5120FL	2 CDR	500 1000	152 305	22.0 43.0	10.0 19.5						0.217	5.51	Black, Red
5122FL	4 CDR	1000	305	79.1	35.9						0.255	6.48	Black, Red, Brown, Blue

Polyethylene Insulation • Red FRNC/LSNH Jacket

300V 70°C	4120FL	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
--------------	---------------	----------------	------	-----	------	------	-------------------------------	-------	------	---	-------	------	------------



Shorting Fold

2 CDR

12 AWG • Solid 2.0 mm Bare Copper • **Beldfoil®** Shield • 24 AWG Tinned Copper Drain Wire • Numbered and Color Coded • Rip Cord

Polyethylene Insulation • Red FRNC/LSNH Jacket

300V 75°C	5020FL	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
--------------	---------------	---------------------------------	------	-----	------	------	-------------------------------	-------	------	---	-------	------	------------



Shorting Fold

2 CDR

Polyethylene Insulation • Red FRNC/LSNH Jacket

300V 70°C	4020FL	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
--------------	---------------	----------------	------	-----	------	------	-------------------------------	-------	------	---	-------	------	------------



Shorting Fold

2 CDR

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

20 • New Generation® Cables

Fire Alarm Cables

Commercial Applications, Addressable Systems
Power-Limited, Mid-Capacitance Unshielded and Shielded

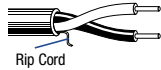


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • Rip Cord

Foam Polyethylene Insulation • Red PVC Jacket

300V 75°C	5320UJ	NEC: FPL	U-1000	U-305	22.0	10.0	1.02 mm 18 AWG Solid BC	0.055	1.40	Unshielded	0.206	5.23	Black, Red
--------------	---------------	-------------	--------	-------	------	------	-------------------------------	-------	------	------------	-------	------	------------

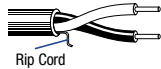


2 CDR

16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Rip Cord

Foam Polyethylene Insulation • Red PVC Jacket

300V 75°C	5220UJ	NEC: FPL	500 1000	152 305	16.1 32.0	7.3 14.5	1.29 mm 16 AWG Solid BC	0.066	1.67	Unshielded	0.230	5.84	Black, Red
--------------	---------------	-------------	-------------	------------	--------------	-------------	-------------------------------	-------	------	------------	-------	------	------------



2 CDR

18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • Beldfoil® Shield • Rip Cord

Foam Polyethylene Insulation • Red PVC Jacket

300V 75°C		NEC: FPL					1.02 mm 18 AWG Solid BC	0.055	1.40	Overall Beldfoil®			
--------------	--	-------------	--	--	--	--	-------------------------------	-------	------	----------------------	--	--	--



5320FJ	2 CDR	U-1000 1000	U-305 305	27.1 28.0	12.3 12.7						0.211	5.36	Black, Red
5322FJ	4 CDR	1000	305	43.0	19.5						0.240	6.10	Black, Red, Brown, Blue

16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Beldfoil® Shield • Rip Cord

Foam Polyethylene Insulation • Red PVC Jacket

300V 75°C		NEC: FPL					1.29 mm 16 AWG Solid BC	0.066	1.67	Overall Beldfoil®			
--------------	--	-------------	--	--	--	--	-------------------------------	-------	------	----------------------	--	--	--



5220FJ	2 CDR	U-1000 1000	U-305 305	18.1 35.1 37.0	8.2 15.9 16.8						0.235	5.97	Black, Red
5222FJ	4 CDR	1000	305	59.1	26.8						0.269	6.83	Black, Red, Brown, Blue

BC = Bare Copper • DCR = DC resistance

Fire Alarm Cables

Commercial Applications, Addressable Systems
 Power-Limited, Mid-Capacitance Unshielded and 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	

14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • **Beldfoil®** Shield • Rip Cord

Foam Polyethylene Insulation • Red PVC Jacket

300V 75°C	5120FJ	NEC: FPL	1000	305	49.2	22.3	1.63 mm 14 AWG Solid BC	0.084	2.14	Overall Beldfoil®	0.279	7.09	Black, Red
--------------	---------------	-------------	------	-----	------	------	-------------------------------	-------	------	----------------------	-------	------	------------



Shorting Fold
 2 CDR
 Shielded

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

Foam Polyethylene Insulation • Red PVC Jacket

300V 75°C	5020FJ	NEC: FPL	1000	305	69.0	31.3	2.1 mm 12 AWG Solid BC	0.084	2.14	Overall Beldfoil®	0.317	8.05	Black, Red
--------------	---------------	-------------	------	-----	------	------	------------------------------	-------	------	----------------------	-------	------	------------



Shorting Fold
 2 CDR

BC = Bare Copper • DCR = DC resistance

20 • New Generation® Cables

Fire Alarm Cables

NPLF Systems

Non-Power-Limited Signaling Cable Unshielded and Shielded

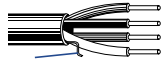


De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • Rip Cord

PVC/Nylon Insulation • Red PVC Jacket

150V 75°C	NEC: NPLF						1.02 mm 18 AWG Solid BC	0.061	1.55	Unshielded			
--------------	--------------	--	--	--	--	--	-------------------------------	-------	------	------------	--	--	--



Rip Cord

5320UN	2 CDR	500	152	14.1	6.4						0.239	6.07	Black, Red
		1000	305	31.1	14.1								
5322UN	4 CDR	500	152	28.0	12.7						0.283	7.19	Black, Red, Brown, Blue
		1000	305	52.9	24.0								

16 AWG • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Rip Cord

PVC/Nylon Insulation • Red PVC Jacket

150V 75°C	NEC: NPLF						1.29 mm 16 AWG Solid BC	0.072	1.82	Unshielded			
--------------	--------------	--	--	--	--	--	-------------------------------	-------	------	------------	--	--	--



Rip Cord

5220UN	2 CDR	500	152	22.0	10.0						0.262	6.65	Black, Red
		1000	305	39.9	18.1								
5222UN	4 CDR	1000	305	71.2	32.3						0.311	7.90	Black, Red, Brown, Blue

14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • Rip Cord

PVC/Nylon Insulation • Red PVC Jacket

150V 75°C	5120UN	NEC: NPLF	500	152	28.7	13.0	1.63 mm 14 AWG Solid BC	0.085	2.16	Unshielded	0.299	7.59	Black, Red
			1000	305	53.1	24.1							



Rip Cord

2 CDR

18 AWG • Solid 1.0 mm Bare Copper • Numbered and Color Coded • Beldfoil® Shield • 20 AWG Tinned Copper Drain Wire • Rip Cord

PVC/Nylon Insulation • Red PVC Jacket

150V 75°C	NEC: NPLF						1.02 mm 18 AWG Solid BC	0.061	1.55	Overall Beldfoil® + Drain Wire (20 AWG TC)			
--------------	--------------	--	--	--	--	--	-------------------------------	-------	------	---	--	--	--



Shorting Fold

5320FN	2 CDR	500	152	15.4	7.0						0.243	6.17	Black, Red
		1000	305	35.1	15.9								
5322FN	4 CDR	500	152	31.1	14.1						0.287	7.29	Black, Red, Brown, Blue
		1000	305	57.1	25.9								

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

Fire Alarm Cables

NPLF Systems

Non-Power-Limited Signaling Cable Unshielded and 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 • Solid 1.3 mm Bare Copper • Numbered and Color Coded • Beldfoil® Shield • 20 AWG Tinned Copper Drain Wire • Rip Cord PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C		NEC: NPLF					1.29 mm 16 AWG Solid BC	0.072	1.82	Overall Beldfoil® + Drain Wire (20 AWG TC)			
	5220FN	2 CDR	500	152	23.6	10.7					0.266	6.76	Black, Red
			1000	305	45.2	20.5							
	5222FN	4 CDR	500	152	40.6	18.4					0.315	8.00	Black, Red, Brown, Blue
			1000	305	76.1	34.5							
14 AWG • Solid 1.6 mm Bare Copper • Numbered and Color Coded • Beldfoil® Shield • 20 AWG Tinned Copper Drain Wire • Rip Cord PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C		NEC: NPLF					1.63 mm 14 AWG Solid BC	0.085	2.16	Overall Beldfoil® + Drain Wire (20 AWG TC)			
	5120FN	2 CDR	500	152	32.0	14.5					0.303	7.70	Black, Red
			1000	305	61.1	27.7							
	5122FN	4 CDR	500	152	50.7	23.0					0.348	8.84	Black, Red, Brown, Blue
			1000	305	102.3	46.4							
12 AWG • Solid 2.1 mm Bare Copper • Numbered and Color Coded • Beldfoil® Shield • 20 AWG Tinned Copper Drain Wire • Rip Cord PVC/Nylon Insulation • Red PVC Jacket													
150V 75°C	5020FN	NEC: FPL	500	152	43.0	19.5	2.05 mm 12 AWG Solid BC	0.102	2.58	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.337	8.56	Black, Red
			1000	305	83.1	37.7							
		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

<p>300V 70°C</p> <p>1.0 mm²</p>	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				
		4K20FX	2 CDR	328 1640	100 500	21.2 105.8					9.6 48.0	0.313	7.96	Black, Red
		4K21FX	3 CDR	328 1640	100 500	25.4 126.8					11.5 57.5	0.331	8.41	Black, Red, Yellow
		4K22FX	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

<p>300V 70°C</p> <p>1.5 mm²</p>	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				
		4L20FX	2 CDR	328 1640	100 500	26.2 131.2					11.9 59.5	0.335	8.50	Black, Red
		4L21FX	3 CDR	328 1640	100 500	33.3 166.4					15.1 75.5	0.354	8.99	Black, Red, Yellow
		4L22FX	4 CDR	328 1640	100 500	37.7 188.5					17.1 85.5	0.387	9.82	Black, Red, Yellow, Blue
4L25FX	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

<p>300V 70°C</p> <p>2.5 mm²</p>	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				
		4N20FX	2 CDR	328 1640	100 500	36.2 180.8					16.4 82.0	0.381	9.68	Black, Red
		4N21FX	3 CDR	328 1640	100 500	49.2 245.8					22.3 111.5	0.412	10.46	Black, Red, Yellow
		4N22FX	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