BELDEN
SENDING ALL THE RIGHT SIGNALS

NEW GENERATION®



20 New Generation® Cables

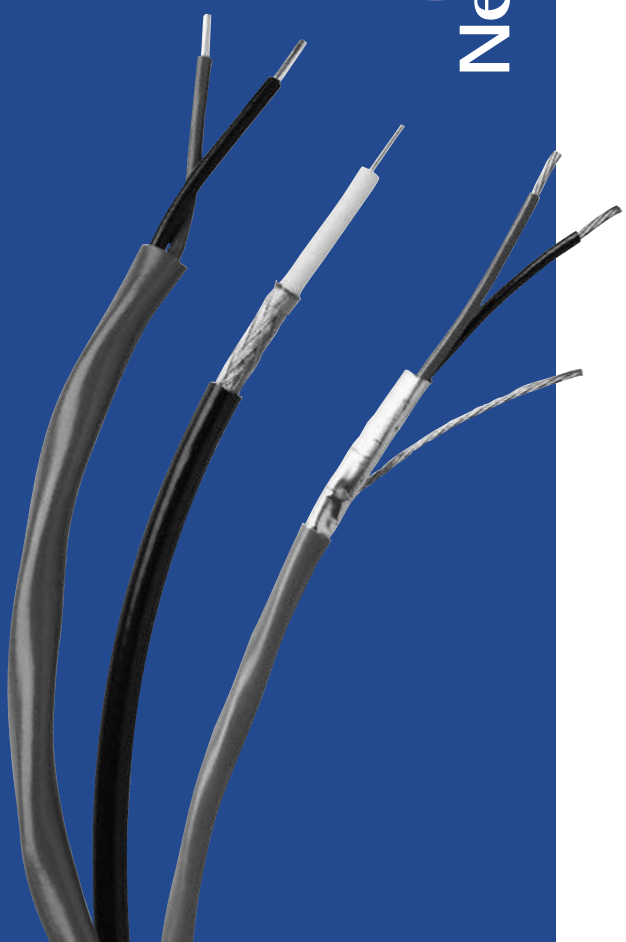


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Search By Part Number

Please refer to “Terms of Use of Master Catalog” on page 23.22.

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)*

NEW GENERATION®

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				
	3	7x30		x			4542FE	20.30		
	3	7x30		x			5542FE	20.30		
8	none	7x30		x			4506FE	20.21		
	none	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				
	2	7x28		x			5441FE	20.30		
5	none	7x28		x			4403FE	20.22		
	none	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** *(continued)*							
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)*

NEW GENERATION®

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		
	4	7x26		x			5343FE	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		
	6	7x26		x			5345FE	20.31		
18	9	7x26			5347UE	20.29				
20	none	7x26			530BUE	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				
	none		solid		5220UN	20.54				
3	none	19x29		x			4201FE	20.26		
	none	19x29			4201UE	20.16				
	none	19x29		x			5201FE	20.26		
	none	19x29			5201UE	20.15				
4	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				
	none		solid		5120UN	20.54				
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		
	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: Conductor / Gage	Description: mm	Shielding	Component	Page
Combination Gages						
3	SEC0001	2 cdr - 26 AWG 1 co - 21 AWG	0.50 0.41	Unshielded Alu + 72% BC Braid	1 x Data 1 x Coax	20.40
	SEC0003	2 cdr - 20 AWG 1 co - 26 AWG	1.00 0.41	Unshielded Alu + 72% BC Braid	1 x Data 1 x Coax	20.40
	439945	1pr - 18 AWG 1 co - 18 AWG	1.22 1.02	Unshielded 95% BC Braid	2 x Data 1 x Coax	20.39
	449945	1 pr - 18 AWG 1 co - 20 AWG	1.22 0.80	Unshielded 95% BC Braid	2 x Data 1 x Coax	20.39
	539945	1 pr - 18 AWG 1 co - 18 AWG	1.22 1.02	Unshielded 95% BC Braid	2 x Data 1 x Coax	20.39
	549945	1 pr - 18 AWG 1 co - 20 AWG	1.22 0.80	Unshielded 95% BC Braid	2 x Data 1 x Coax	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	1 x Coax 1 x Data 1 x Control	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	1 x Coax 1 x Data 1 x Control	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	1 x Data 2 x Power	20.41
	5284US	2 pr - 24 AWG 2 cdr - 16 AWG	0.50 1.47	Unshielded Unshielded	1 x Data 2 x Power	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	1 x Data 2 x Power	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

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

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 mm² (solid)
- T = 10/5.3 mm² (solid)
- 0 = 12/3.3 mm² (solid)/3.6 mm² (stranded)
- 1 = 14/2.1 mm²/2.2 mm²
- 2 = 16/1.3 mm²/1.4 mm²
- 3 = 18/0.82 mm²/0.90 mm²
- 4 = 20/0.52 mm²/0.56 mm²
- 5 = 22/0.33mm²/0.36 mm²
- 6 = 24/0.21 mm²/0.23 mm²
- K = 1.0 mm²
- L = 1.5 mm²
- M = 2.0 mm²
- N = 2.5 mm²

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

Security Multi-Conductor Cables

Residential, Light Commercial and Institutional Applications

NEW GENERATION®

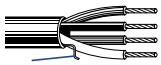
Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 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					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 U-1000	C-152 U-152 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
													
2 CDR	Available in Grey, Black or Natural only.												

BC = Bare Copper • DCR = DC resistance

Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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 U-500 500 C-1000 U-1000 1000	C-152 U-152 152 C-305 U-305 305	4.0 5.5 5.5 7.9 9.9 9.0	1.8 2.5 2.5 3.6 4.5 4.1					0.128	3.25	
	5501UE	3 CDR	U-1000 1000	U-305 305	13.0 13.0	5.9 5.9					0.135	3.43	
	5502UE	4 CDR	C-500 U-500 U-1000 1000	C-152 U-152 U-305 305	7.5 9.0 16.1 16.1	3.4 4.1 7.3 7.3					0.148	3.76	
	Also available in White.												
	5503UE	5 CDR	U-1000 1000	U-305 305	20.1 20.1	9.1 9.1					0.162	4.11	
	5504UE	6 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	12.6 14.1 13.4 27.1 27.1	5.7 6.4 6.1 12.3 12.3					0.177	4.50	
	Also available in White.												
	5506UE	8 CDR	U-1000 1000	U-305 305	29.1 30.0	13.2 13.6					0.192	4.88	
	5508UE	10 CDR	U-1000 1000	U-152 305	35.9 41.0	16.3 18.6					0.226	5.74	
	5509UE	12 CDR	U-500 U-1000 1000	U-152 U-305 305	21.6 42.1 47.2	9.8 19.1 21.4					0.233	5.92	

BC = Bare Copper • DCR = DC resistance

Color Code

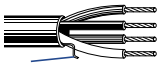
Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue

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

Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Numbered and Color Coded • Rip Cord													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C		IEC 60754-2					0.76 mm 22 AWG (7x30) BC	0.049	1.25	Unshielded			see chart below
 Rip Cord													
	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

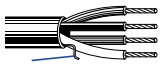
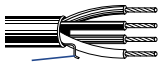
Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue

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

Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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	
	540BUE	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

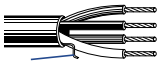
Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey

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

NEW GENERATION®

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

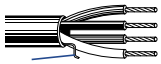
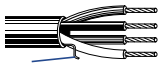
Cond. No.	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Grey

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

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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 1640	100 500	6.0 29.3	2.7 13.3					0.161	4.10	
	4301UE	3 CDR	328 1640	100 500	7.7 38.4	3.5 17.4					0.161	4.10	
	4302UE	4 CDR	328 1640	100 500	10.1 50.7	4.6 23.0					0.189	4.80	
	4303UE	5 CDR	328 1640	100 500	12.1 60.4	5.5 27.4					0.209	5.30	
	4304UE	6 CDR	328 1640	100 500	15.0 74.5	6.8 33.8					0.224	5.70	
	4306UE	8 CDR	328 1640	100 500	18.5 92.6	8.4 42.0					0.248	6.30	
	4308UE	10 CDR	328 1640	100 500	22.9 114.9	10.4 52.1					0.295	7.50	
	4309UE	12 CDR	328 1640	100 500	27.1 135.8	12.3 61.6					0.315	8.00	
16 AWG • Stranded (19x29) 1.5 mm Bare Copper • Numbered and Color Coded • Rip Cord													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					1.47 mm 16 AWG (19x29) BC	0.068	1.72	Unshielded			see chart below
 Rip Cord													
	5200UE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.5 13.0 12.6 24.0 25.1	5.2 5.9 5.7 10.9 11.4					0.184	4.67	
	5201UE	3 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	18.5 18.1 35.1 38.1	8.4 8.2 15.9 17.3					0.196	4.98	
	5202UE	4 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	23.6 22.9 45.0 47.0	10.7 10.4 20.4 21.3					0.216	5.49	
	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

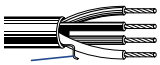
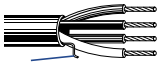
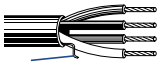
Cond. No.	Color
5	Brown
6	Blue
7	Orange
8	Yellow

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

Security and Alarm Cables

Commercial Applications Unshielded

NEW GENERATION®

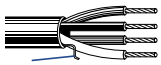
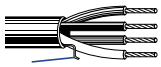
Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 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			
 Rip Cord													
	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			
 Rip Cord													
	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			
 Rip Cord													
	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

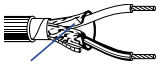
NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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 1000	152 305	29.1 57.1	13.2 25.9					0.268	6.81	Black, White
	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 1640	100 500	16.5 83.1	7.5 37.7					0.268	6.80	Black, White
	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

NEW GENERATION®

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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 Sectoion)
 Shorting Fold													
2 CDR													

Description	Part No.	No. of Cond. (CDR)	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD AWG	Nominal Conductor OD Section mm²	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Application
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

NEW GENERATION®

Description	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 mm²		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

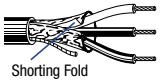
Pair No.	Color
1	Red, Black
2	White/Blue, Blue
3	White/Orange, Orange
4	White/Green, Green
5	White/Brown, Brown
6	White/Grey, Grey
7	Red/Blue, Blue
8	Red/Orange, Orange
9	Red/Green, Green
10	Red/Brown, Brown
11	Red/Grey, Grey

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

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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
 Shorting Fold													
	5500FE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	5.5 6.6 6.6 11.9 11.9	2.5 3.0 3.0 5.4 5.4					0.130	3.30	
	5501FE	3 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	7.1 7.9 7.5 15.0 15.0	3.2 3.6 3.4 6.8 6.8					0.138	3.51	
	5502FE	4 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	8.6 9.5 9.5 18.1 18.1	3.9 4.3 4.3 8.2 8.2					0.152	3.86	
	5503FE	5 CDR	1000	305	22.0	10.0					0.165	4.19	
	5504FE	6 CDR	C-500 U-500 U-1000 1000	C-152 U-152 U-305 305	13.4 15.0 29.1 29.1	6.1 6.8 13.2 13.2					0.179	4.55	
	5506FE	8 CDR	U-500 U-1000 1000	U-152 U-305 305	16.5 32.0 32.0	7.5 14.5 14.5					0.196	4.98	
	5508FE	10 CDR	U-500 U-1000 1000	U-152 U-305 305	19.6 37.9 44.1	8.9 17.2 20.0					0.230	5.84	

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

Color Code

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

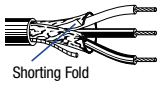
Color Code

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

Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	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
 Shorting Fold													
	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

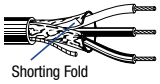
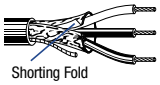
Color Code

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

NEW GENERATION®

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

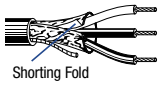
Color Code

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

Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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  Shorting Fold		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
	5300FE	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.0 12.1 12.1 22.9 22.9	5.0 5.5 5.5 10.4 10.4					0.165	4.19	
	5301FE	3 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	15.4 15.0 30.0 30.0	7.0 6.8 13.6 13.6					0.175	4.45	
	5302FE	4 CDR	C-250 U-500 500 U-1000 1000	C-76 U-152 152 U-305 305	8.8 19.0 20.5 35.9 37.0	4.0 8.6 9.3 16.3 16.8					0.192	4.88	
	5303FE	5 CDR	U-500 500 U-1000 1000	U-152 152 U-305 305	22.5 22.5 43.0 45.2	10.2 10.2 19.5 20.5					0.211	5.36	
	5304FE	6 CDR	U-500 500 1000	U-152 152 305	28.4 26.0 57.1	12.9 11.8 25.9					0.230	5.84	
	5305FE	7 CDR	1000	305	57.1	25.9					0.230	5.84	
	5306FE	8 CDR	500 1000	152 305	32.0 64.2	14.5 29.1					0.270	6.86	
	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

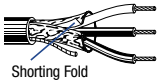
Color Code

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

NEW GENERATION®

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

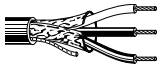
Color Code

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

NEW GENERATION®

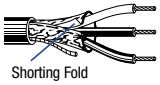
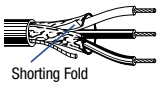
Description	Part No.	No. of Cond. (CDR)	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Conductor OD		Shielding Material Nom. DCR	Nominal OD		Application
			ft.	m	lbs.	kg		AWG	Section mm²		inch	mm	
18 AWG • Stranded (32x0.20) 1.2 mm Bare Copper • Overall Alufoil • Color Coded													
PVC Insulation • White Flame-Resistant PVC Jacket (Color Code: see chart 11, Tech Info Section)													
500V										Overall Alufoil			- Alarm systems - Smoke survey - Fire survey - Industrial checks
													
LiY (St) Y	**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

Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

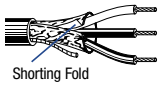
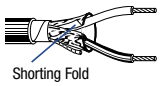
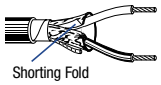
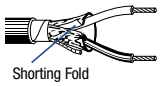
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 AWG • 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  Shorting Fold		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-500 500 U-1000 1000	U-152 152 U-305 305	16.5 16.5 31.1 32.0	7.5 7.5 14.1 14.5					0.188	4.78	Black, Red
	Also available in White.												
	5201FE	3 CDR	500 U-1000 1000	152 U-305 305	21.6 43.0 42.1	9.8 19.5 19.1					0.200	5.08	Black, Red, White
	5202FE	4 CDR	500 1000	152 305	26.5 54.0	12.0 24.5					0.220	5.59	Black, Red, White, Green
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C  Shorting Fold 1.23 mm²		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 1640	100 500	9.7 48.1	4.4 21.8					0.189	4.80	Black, Red
	4201FE	3 CDR	328 1640	100 500	11.9 59.5	5.4 27.0					0.201	5.10	Black, Red, White
	4202FE	4 CDR	328 1640	100 500	15.2 75.8	6.9 34.4					0.220	5.60	Black, Red, White, Green

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

Security and Alarm Cables

Commercial Applications Shielded

NEW GENERATION®

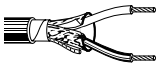
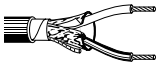
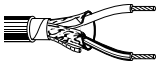
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
14 AWG • 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)			
 Shorting Fold													
	5100FE	2 CDR	500 U-1000 1000	152 U-305 305	28.4 48.9 51.1	12.9 22.2 23.2					0.238	6.05	Black, White
	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 1640	100 500	14.3 71.6	6.5 32.5	1.85 mm 14 AWG (19x27) BC	0.099	2.52	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.240	6.10	Black, White
 Shorting Fold													
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 1000	152 305	36.6 67.2	16.6 30.5	2.36 mm 12 AWG (19x25) BC	0.107	2.72	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.272	6.91	Black, White
 Shorting Fold													
2 CDR													
Polyethylene Insulation • Grey FRNC/LSNH Jacket													
300V 70°C	**4000FE**	IEC 60754-2	328 1640	100 500	19.2 95.7	8.7 43.4	2.36 mm 12 AWG (19x25) BC	0.118	3.00	Overall Beldfoil® + Drain Wire (16 AWG TC)	0.272	6.90	Black, White
 Shorting Fold													
2 CDR													

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

Security and Alarm Cables

Water-Blocked for Use in Underground Ducts
Unshielded and Shielded

NEW GENERATION®

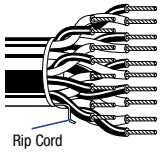
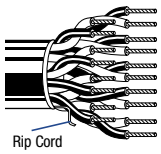
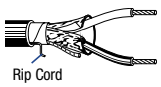
Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 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							
 Rip Cord													
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

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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
 Rip Cord													
	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
 Rip Cord													
	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
 Rip Cord 2-Pair													

BC = Bare Copper • DCR = DC resistance

Color Code

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

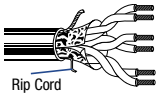
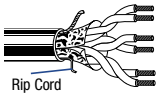
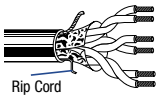
Pair No.	Color
4	Black, Blue
5	Black, Yellow
6	Black, Brown

Pair No.	Color
7	Black, Orange
8	Black, White
9	Black, Green

Security and Alarm Cables

Commercial Applications Shielded Twisted Pairs

NEW GENERATION®

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

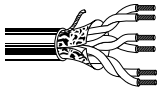
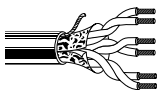
Pair No.	Color
1	Black, Red
2	Black, White
3	Black, Green

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

Security and Alarm Cables

Commercial Applications Shielded Twisted Pairs

NEW GENERATION®

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

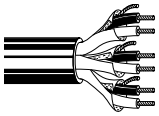
Pair No.	Color
4	Black, Blue
5	Black, Yellow
6	Black, Brown

Security and Alarm Cables

Commercial Applications Individually Shielded Twisted Pairs

NEW GENERATION®

Description	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

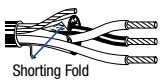
Color Code

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

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 AWG • Stranded (7x30) 0.8 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • With Additional Conductor(s) • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					0.76 mm 22 AWG (7x30) BC	0.040	1.01	Individual Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
	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													
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
 Shorting Fold													
1 STP + 2/C													
20 AWG • Stranded (7x28) 1.0 mm BC • Twisted Pair • Each Pair **Beldfoil®** Shielded • 24 AWG TC Drain Wire • With Additional Conductor(s) • Numbered and Color Coded													
PVC Insulation • Grey PVC Jacket													
300V 75°C		NEC: CMR CEC: CMG FT4					0.96 mm 20 AWG (7x28) BC	0.042	1.06	Individual Beldfoil® + Drain Wire (24 AWG TC)			
 Shorting Fold													
	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													
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
 Shorting Fold													
1 STP + 2/C													

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

Security Coaxial Cables

Surveillance and CCTV Applications

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation 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**		820	250	10.4	4.7	1.0 mm	0.185	4.70	Cu-foil	0.262	6.65	75	80 %	17.1	56.0	5	0.5	1.6
			1640	500	26.0	11.8	Solid BC			+ 55 % BC							50	1.4	4.6
							41.0 Ω/km*			Braid							100	2.0	6.5
							26.0 Ω/km**			15.0 Ω/km***							230	3.0	9.8
										5.2 mm							400	4.5	14.8
																	800	5.9	19.2
																	860	5.9	19.5
1.0/4.8			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB							1000	6.6	21.5
				470-862 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 15.0 mΩ/m									
				862-2150 MHz: ≥ 18 dB						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®	0.268	6.80	75	81 %	16.8	55.0	5	0.5	1.8
			820	250	26.0	11.8	Solid BC			+ 40 % TC							50	1.4	4.7
			1640	500	51.8	23.5	50.0 Ω/km*			Braid							100	2.0	6.5
							23.0 Ω/km**			27.0 Ω/km***							230	3.0	9.8
																	400	3.9	12.9
																	800	5.7	18.6
																	860	5.9	19.3
1.0/4.8			Return loss at	5-470 MHz: ≥ 23 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB							1000	6.4	20.9
				470-862 MHz: ≥ 20 dB						Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m									
				862-2150 MHz: ≥ 18 dB						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®	0.197	5.00	75	82 %	16.5	54.0	5	0.5	1.7
			820	250	37.9	17.2	Solid BC			+ 40 % TC							50	1.8	5.9
			1640	500	75.7	34.4	75.0 Ω/km*			Braid							100	2.0	8.1
							35.0 Ω/km**			40.0 Ω/km***							230	3.7	12.1
										4.1 mm							400	4.8	15.9
																	800	6.9	22.7
																	860	7.2	23.6
1.0/4.8			Return loss at	5-470 MHz: ≥ 20 dB						Screening attenuation at 30-1000 MHz: ≥ 75 dB							1000	7.8	25.6
				470-862 MHz: ≥ 18 dB						Transfer impedance at 5-30 MHz: ≤ 40.0 mΩ/m									
				862-2150 MHz: ≥ 16 dB						Pulling Tension: 55 N									

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

Duofoil® see technical information page 23.13.

Security Coaxial Cables

Surveillance and CCTV Applications
Shielded or Flooded for Use in Underground Ducts

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation 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:	U-1000	U-305	15.0	6.8	0.46 mm	0.085	2.16	94% BC	0.146	3.71	75	80%	16.9	55.4	1	0.5	1.5
		CM	1000	305	14.1	6.4	25 AWG			Braid							5	0.9	3.0
		CEC:					Solid BC			18.4 Ω/km***							10	2.0	4.3
		CM FT1					101.7 Ω/km*										50	3.0	9.8
							83.3 Ω/km**										100	4.1	13.5
																	200	6.0	19.7
																	400	8.6	28.2
Mini RG-59																	700	11.6	38.1
			Nominal Delay: 4.167 ns/m							Pulling Tension: 125 N							900	13.5	44.3
																	1000	14.5	47.6
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**473945**	IEC	328	100	4.6	2.1	0.46 mm	0.085	2.16	95% BC	0.146	3.70	75	80%	16.9	55.4			see above
		60754-2	1640	500	23.1	10.5	25 AWG			Braid									
							Solid BC			18.4 Ω/km***									
							101.7 Ω/km*												
							83.3 Ω/km**												
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:	U-1000	U-305	33.1	15.0	0.76 mm	0.140	3.56	95% BC	0.232	5.89	75	78%	17.3	56.8	1	0.3	1.0
		CM	1000	305	30.0	13.6	22 AWG			Braid							10	0.9	3.0
		CEC:					(7x30) BC			8.5 Ω/km***							50	2.1	6.9
		CM FT1					49.2 Ω/km*										100	3.0	9.8
							40.7 Ω/km**										200	4.5	14.8
																	400	6.6	21.7
RG-59																	700	8.9	29.2
			Nominal Delay: 4.265 ns/m							Pulling Tension: 218 N							900	10.1	33.1
																	1000	10.9	35.8
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**451945**	IEC	328	100	8.2	3.7	0.76 mm	0.140	3.56	95% BC	0.232	5.90	75	78%	17.3	56.8			see above
		60754-2	1640	500	41.2	18.7	22 AWG			Braid									
							(7x30) BC			8.5 Ω/km***									
							49.2 Ω/km*												
							40.7 Ω/km**												
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:	U-500	U-152	12.6	5.7	0.81 mm	0.145	3.68	95% BC	0.232	5.89	75	83%	16.3	53.5	1	0.3	1.0
		CM	500	152	13.2	6.0	20 AWG			Braid							5	0.7	2.1
		CEC:	U-1000	U-305	24.9	11.3	Solid BC			11.4 Ω/km***							10	2.0	3.0
		CM FT1	1000	305	31.1	14.1	32.8 Ω/km*										50	1.9	6.2
							21.4 Ω/km**										100	2.6	8.5
																	200	3.6	11.8
RG-59																	400	5.0	16.4
																	700	7.0	23.0
			Nominal Delay: 3.97 ns/m							Pulling Tension: 218 N							900	8.0	26.2
																	1000	8.5	27.9

*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

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation 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 60754-2	328 1640	100 500	10.6 52.5	4.8 23.8	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	5.90	75	83%	16.3	53.5	1 5 10 50 100 200 400 700 900 1000	0.3 0.7 2.0 1.9 2.6 3.6 5.0 7.0 8.0 8.5	1.0 2.1 3.0 6.2 8.5 11.8 16.4 23.0 26.2 27.9
 RG-59			Nominal Delay: 3.97 ns/m							Pulling Tension: 218 N									
18 AWG • Solid 1.0 mm Bare Copper • 95% Bare Copper Braid																			
Foam PE Insulation • PVC Jacket (White or Black)																			
75°C	**533945**	NEC: CM CEC: CM FT1	500 U-1000 1000	152 U-305 305	20.9 39.9 41.0	9.5 18.1 18.6	1.02 mm 18 AWG Solid BC 20.9 Ω/km* 10.8 Ω/km**	0.180	4.57	95% BC Braid 10.1 Ω/km***	0.266	6.76	75	83%	16.3	53.5	1 5 10 50 100 200 400 700 900 1000	0.2 0.5 2.0 1.5 2.1 3.0 4.3 5.8 6.7 7.1	0.7 1.5 2.1 4.8 6.9 9.8 14.1 19.0 22.0 23.3
 RG-6			Nominal Delay: 4.003 ns/m							Pulling Tension: 507 N									
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**433945**	IEC 60754-2	328 1640	100 500	13.4 67.2	6.1 30.5	1.02 mm 18 AWG Solid BC 20.9 Ω/km* 10.8 Ω/km**	0.180	4.57	95% BC Braid 10.1 Ω/km***	0.266	6.75	75	83%	16.3	53.5			see above
 RG-6			Nominal Delay: 4.003 ns/m							Pulling Tension: 507 N									
14 AWG • Solid 1.6 mm Bare Copper • 95% Bare Copper Braid																			
Gas-Injected Foam PE Insulation • Black PVC Jacket																			
75°C	**513945**	NEC: CM CEC: CM FT1	500 1000	152 305	52.5 98.1	23.8 44.5	1.63 mm 14 AWG Solid BC 8.5 Ω/km* 4.6 Ω/km**	0.280	7.11	95% BC Braid 3.9 Ω/km***	0.405	10.29	75	84%	16.1	52.8	1 10 50 100 200 400 700 900 1000	0.2 0.4 0.9 1.3 1.9 2.9 4.1 4.8 5.2	0.6 1.1 3.0 4.3 6.2 9.5 13.5 15.7 17.1
 RG-11			Nominal Delay: 3.97 ns/m							Pulling Tension: 640 N									
Gas-Injected Foam PE Insulation • Grey FRNC/LSNH Jacket																			
70°C	**413945**	IEC 60754-2	500 1640	152 500	100.0 159.4	14.5 72.3	1.63 mm 14 AWG Solid BC 8.5 Ω/km* 4.6 Ω/km**	0.280	7.11	95% BC Braid 3.9 Ω/km***	0.406	10.30	75	84%	16.1	52.8			see above
 RG-11			Nominal Delay: 3.97 ns/m							Pulling Tension: 640 N									

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

Security Coaxial Cables

Water-Blocked for Use in Underground Ducts

NEW GENERATION®

Description	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	0.236	5.99	75	83 %	16.3	53.5	1	0.3	1.0
		CM	500	152	17.4	7.9	20 AWG			+ 95 % TC							5	0.6	2.1
		CEC:	U-1000	U-305	34.0	15.4	Solid BC			Braid							10	2.0	2.9
		CM FT1	1000	305	34.0	15.4	32.8 Ω/km*			8.2 Ω/km***							50	1.7	5.6
							24.6 Ω/km**										100	2.3	7.5
																	200	3.4	11.2
CoreGuard®																	400	4.7	15.4
																	700	6.3	20.7
RG-59			Nominal Delay: 3.97 ns/m							Pulling Tension: 253 N							900	7.3	24.0
																	1000	7.8	25.6
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®	0.270	6.86	75	83 %	16.3	53.5	4	0.6	2.0
		CM	500	152	15.4	7.0	18 AWG			+ 60 % AL							30	1.3	4.4
		CEC:	U-1000	U-305	30.0	13.6	Solid BC			Braid							211	2.0	10.1
		CM FT1	1000	305	30.0	13.6	20.9 Ω/km*			10.1 Ω/km***							270	3.5	11.5
							10.8 Ω/km**										300	3.7	12.1
																	330	3.9	12.8
CoreGuard®																	400	4.3	14.1
																	450	4.6	15.0
RG-6																	550	5.1	16.7
																	750	6.0	19.7
			Nominal Delay: 3.97 ns/m							Pulling Tension: 302 N							870	6.5	21.3
																	1000	7.0	23.0

*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

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation 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®	0.266	6.76	75	83%	16.3	53.5	5	0.8	2.7
		CM	500	152	15.4	7.0	18 AWG			+ 60% AL							55	1.6	5.3
		CEC:	U-1000	U-305	34.0	15.4	Solid BC			Braid							211	2.0	10.1
		CM FT1	1000	305	35.1	15.9	20.9 Ω/km*			10.1 Ω/km***							270	3.5	11.5
							10.8 Ω/km**										300	3.7	12.1
																	330	3.9	12.8
Series 6 RG-6																	400	4.3	14.1
																	450	4.6	15.0
																	550	5.1	16.7
			Also available in White.							Nominal Delay: 3.97 ns/m							750	6.0	19.7
										Pulling Tension: 302 N							870	6.5	21.3
																	1000	7.0	23.0
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®	0.272	6.90	75	83%	16.3	53.5			see above
		60754-2	1640	500	59.3	26.9	18 AWG			+ 63% BC									
		IEC 332-1					Solid BC			Braid									
							20.9 Ω/km*			10.1 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®	0.298	7.57	75	83%	16.3	53.5			see above
		CM	U-1000	U-305	35.9	16.3	18 AWG			+ 60% AL									
		CEC:	1000	305	35.9	16.3	Solid BC			Braid									
		CM FT1					20.9 Ω/km*			Duofoil®									
							10.8 Ω/km**			+ 40% AL									
										Braid									
Series 6 RG-6										10.1 Ω/km***									
										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®	0.299	7.60	75	83%	16.3	53.5			see above
		60754-2	1640	500	62.6	28.4	18 AWG			+ 60% AL									
		IEC 332-1					Solid BC			Braid									
							20.9 Ω/km*			Duofoil®									
							10.8 Ω/km**			+ 40% AL									
										Braid									
Series 6 RG-6										10.1 Ω/km***									
										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®	0.270	6.86	75	83%	16.3	53.5	4	0.6	2.0
		CM	1000	305	29.1	13.2	18 AWG			+ 60% AL							30	1.3	4.4
		CEC:					Solid BC			Braid							211	2.0	10.1
		CM FT1					20.9 Ω/km*			10.1 Ω/km***							270	3.5	11.5
							10.8 Ω/km**										300	3.7	12.1
																	330	3.9	12.8
Series 6 RG-6																	400	4.3	14.1
																	450	4.6	15.0
																	550	5.1	16.7
										Nominal Delay: 3.97 ns/m							750	6.0	19.7
										Pulling Tension: 302 N							870	6.5	21.3
																		1000	7.0	23.0

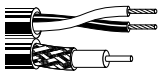
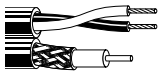
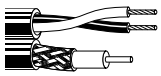
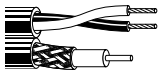
*DC loop resistance • **DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • AL = Aluminum

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

NEW GENERATION®

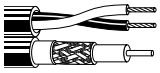
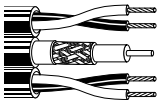
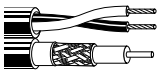
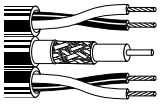
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Shielding Material	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD inch	Component OD 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	2x Data	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 1.47 mm	PVC Black	0.228	5.79
										1x Coax	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	2x Data	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PE 1.47 mm	FRNC Grey	0.228	5.79
										1x Coax	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	2x Data	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 1.47 mm	PVC Black	0.228	5.79
										1x Coax	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	2x Data	1-Pair 18 AWG 1.22 mm (7x26) BC	Unshielded	PE 1.47 mm	FRNC Grey	0.228	5.79
										1x Coax	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

NEW GENERATION®

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

NEW GENERATION®

Description	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

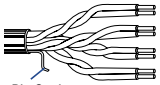
CCTV Fixed and PTZ Camera Cable

NEW GENERATION®

DataTwist® Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper Conductors • Rip Cord

Polyolefin Insulation • Flexible Matte Black PVC Jacket • Category 5e

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	ACR dB/100m	Min. RL dB
	1583E		B-328	B-100	6.1	2.8	0.51 mm	0.035	0.90	Non-	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	24 AWG			Bonded-Pair			4	4.0	53.0	49.3	49.0	52.3	23.0
			1000	305	18.7	8.5	Solid BC			Unshielded			8	5.7	49.0	43.1	43.0	46.1	24.5
			1640	500	30.9	14.0				U/UTP			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



Rip Cord

4-Pair

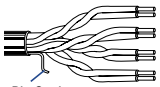
Input Impedance (Ω) 100 + 15%
500 m put-up available in Grey only.

Color Code: see chart below
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)

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	ACR dB/100m	Min. RL dB
	1500A	NEC:	A-1000	A-305	26.0	11.8	0.51 mm	0.035	0.89	Non-	0.190	4.83	1	2.0	65.3	63.3	60.8	–	20.0
		CM	1000	305	22.9	10.4	24 AWG			Bonded-Pair			4	4.0	56.3	52.3	48.7	–	23.0
		CEC:					Solid BC			Unshielded			8	5.7	51.8	46.1	42.7	–	24.5
		CM								U/UTP			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



Rip Cord

4-Pair

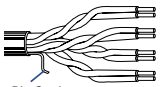
Input Impedance (Ω) 1-16: 100 + 12%
25-100: + 15%
155: + 18%
200-250: + 20%
350: + 22%

Color Code: see chart below
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

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)

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Freq. MHz	Max. Atten. dB/100m	Min. PSUM NEXT dB	Min. PSUM ACR dB/100m	Min. PSUM ELFEXT dB/100m	ACR dB/100m	Min. RL dB
	7881A	NEC:	A-1000	A-305	33.1	15.0	0.57 mm	0.043	1.09	Non-	0.235	5.97	1	2.0	72.3	70.3	64.8	–	20.0
		CM	1000	305	30.0	13.6	23 AWG			Bonded-Pair			10	6.0	57.3	51.3	44.8	–	25.0
		CEC:					Solid BC			Unshielded			20	8.5	52.8	44.3	38.7	–	25.0
		CMR FT4								U/UTP			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



Rip Cord

4-Pair

Input Impedance (Ω) 1-100: 100 + 15%
200: + 22%
250: + 32%

Color Code: see chart below
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

BC = Bare Copper • DCR = DC resistance

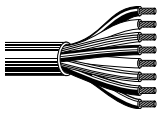
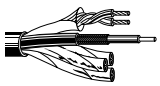
Color Code

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

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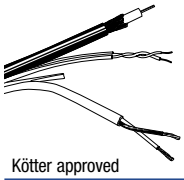
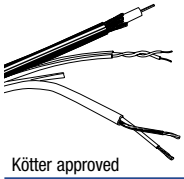
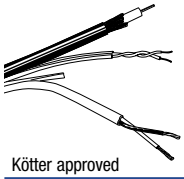
Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Shielding Material	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors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

Security Composite Cables

Banana Peel® PTZ Camera Cable Composite Cables Jacketless

NEW GENERATION®

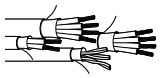
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Shielding Material	Nominal OD inch	Nominal OD mm	Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD inch	Component OD 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 Spline																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**500PTZ**	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500 1000	152 305	36.8 71.2	17.5 32.3		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
							White, Blue			Control	1-Pair 23 AWG 0.57 mm Solid BC	Unshielded	Polyolefin 1.04 mm	PVC Blue	0.118	3.00
							Red, Black			Power	2-Conductor 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 2.20 mm	PVC White	0.171	4.34
 Kötter approved																
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 Spline																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**501PTZ**	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500 1000	152 305	41.0 76.1	18.6 34.5		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
							White/Blue Stripe, Blue			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
							Red, Black			Power	2-Conductor 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 2.20 mm	PVC White	0.171	4.34
 Kötter approved																
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 Spline																
PVC Insulation (Pairs) • Foam Insulation (Coax) • Black PVC Jacket																
300V 75°C	**502PTZ**	NEC: CMR CEC: CMG FT4 Shaft UL 1666	500 1000	152 305	50.0 93.9	22.7 42.6		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
							White/Blue Stripe, Blue			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
							Red, Black			Power	2-Conductor 18 AWG 1.22 mm (7x26) BC	Unshielded	PVC 2.20 mm	PVC White	0.171	4.34
 Kötter approved																

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

Security Composite Cables

Banana Peel® Access Control Composite Cables Jacketless

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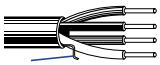
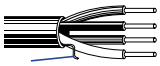
Description	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Shielding Material	Nominal OD		Component	Description	Shielding Material & Nom. DCR	Insulation Material & Colors	Component Jacket Material & Colors	Component OD	
			ft.	m	lbs.	kg		inch	mm						inch	mm
Composite • **4 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																
300V 75°C	**558AFS**	NEC: CMR CEC: CMG	500 1000	152 305	58.4 108.0	26.5 49.0	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
 Kötter approved							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

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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
 Rip Cord													
	5522UL	4 CDR	C-500 U-1000 1000	C-152 U-305 305	7.1 16.1 16.1	3.2 7.3 7.3					0.125	3.18	
	5542UL	6 CDR	C-500 U-1000	C-152 U-305	10.1 20.9	4.6 9.5					0.168	4.27	
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
 Rip Cord													
	5320UL	2 CDR	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	7.9 9.0 9.0 18.1 17.0	3.6 4.1 4.1 8.2 7.7					0.151	3.84	
	5322UL	4 CDR	C-250 C-500 U-500 U-1000 1000	C-76 C-152 U-152 U-305 305	7.1 13.2 15.4 30.0 30.0	3.2 6.0 7.0 13.6 13.6					0.176	4.47	
	5324UL	6 CDR	500 U-1000 1000	152 U-305 305	23.6 43.0 44.1	10.7 19.5 20.0					0.212	5.38	
	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
1	Black
2	Red
3	Brown

Cond. No.	Color
4	Blue
5	Orange
6	Yellow

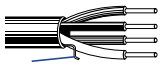
Cond. No.	Color
7	Purple
8	Green
9	Red/Black

Cond. No.	Color
10	Red/White
11	Red/Green
12	Red/Blue

Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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
 Rip Cord													
	4322UL	4 CDR	328 1640	100 500	9.3 46.3	4.2 21.0					0.177	4.50	
	4324UL	6 CDR	328 1640	100 500	13.0 65.0	5.9 29.5					0.213	5.40	

BC = Bare Copper • DCR = DC resistance

Color Code

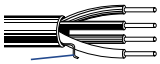
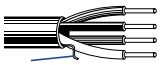
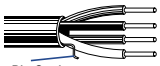
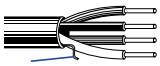
Cond. No.	Color
1	Black
2	Red
3	Brown

Cond. No.	Color
4	Blue
5	Orange
6	Yellow

Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

NEW GENERATION®

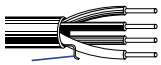
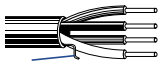
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
16 AWG • 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 U-1000 1000	152 U-305 305	13.0 24.0 25.1	5.9 10.9 11.4					0.174	4.42	Black, Red
	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 1640	100 500	7.7 38.4	3.5 17.4					0.173	4.40	Black, Red
	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 1000	152 305	19.0 38.1	8.6 17.3					0.213	5.41	Black, Red
	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 1640	100 500	11.2 56.0	5.1 25.4					0.213	5.40	Black, Red
	4122UL	4 CDR	328 1640	100 500	19.8 99.9	9.0 45.3					0.252	6.40	Black, Red, Brown, Blue

BC = Bare Copper • DCR = DC resistance

Fire Alarm Cables

Commercial Applications
Power-Limited Unshielded

NEW GENERATION®

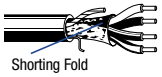
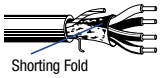
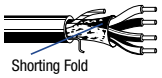
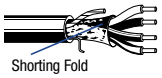
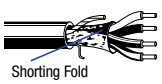
Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	
12 AWG • Solid 2.1 mm Bare Copper • Numbered and Color Coded • Rip 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

Fire Alarm Cables

Commercial Applications
Power-Limited Shielded

NEW GENERATION®

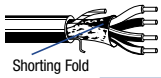
Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
22 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

NEW GENERATION®

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

Fire Alarm Cables

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

NEW GENERATION®

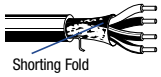
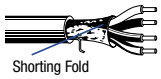
Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
18 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
 Rip Cord													
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
 Rip Cord													
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®			
 Shorting Fold													
	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®			
 Shorting Fold													
	5220FJ	2 CDR	500 U-1000 1000	152 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

NEW GENERATION®

Description	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													

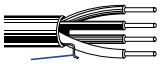
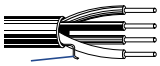
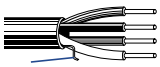
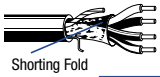
BC = Bare Copper • DCR = DC resistance

Fire Alarm Cables

NPLF Systems

Non-Power-Limited Signaling Cable Unshielded and Shielded

NEW GENERATION®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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 1000	152 305	14.1 31.1	6.4 14.1					0.239	6.07	Black, Red
	5322UN	4 CDR	500 1000	152 305	28.0 52.9	12.7 24.0					0.283	7.19	Black, Red, Brown, Blue
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 1000	152 305	22.0 39.9	10.0 18.1					0.262	6.65	Black, Red
	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 1000	152 305	28.7 53.1	13.0 24.1	1.63 mm 14 AWG Solid BC	0.085	2.16	Unshielded	0.299	7.59	Black, Red
 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 1000	152 305	15.4 35.1	7.0 15.9					0.243	6.17	Black, Red
	5322FN	4 CDR	500 1000	152 305	31.1 57.1	14.1 25.9					0.287	7.29	Black, Red, Brown, Blue

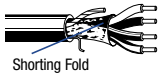
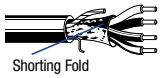
TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Fire Alarm Cables

NPLF Systems

Non-Power-Limited Signaling Cable Unshielded and Shielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
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)			
 Shorting Fold													
	5220FN	2 CDR	500 1000	152 305	23.6 45.2	10.7 20.5					0.266	6.76	Black, Red
	5222FN	4 CDR	500 1000	152 305	40.6 76.1	18.4 34.5					0.315	8.00	Black, Red, Brown, Blue
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)			
 Shorting Fold													
	5120FN	2 CDR	500 1000	152 305	32.0 61.1	14.5 27.7					0.303	7.70	Black, Red
	5122FN	4 CDR	500 1000	152 305	50.7 102.3	23.0 46.4					0.348	8.84	Black, Red, Brown, Blue
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 1000	152 305	43.0 83.1	19.5 37.7	2.05 mm 12 AWG Solid BC	0.102	2.58	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.337	8.56	Black, Red
 Shorting Fold 2 CDR													

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

Circuit Integrity & Fire Protection Cables

Commercial Applications

Power-Limited Shielded

NEW GENERATION®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Color Code
17 AWG • Solid 1.13 mm Plain Annealed Copper to BS6360 • Circuit Protection Conductor • Mica/Glass Fire Barrier • Aluminum/Polyester Taped Screen • Drain Wire													
XL Polyolefin FROH Insulation • Red FRNC/LSNH Jacket													
300V 70°C  1.0 mm²		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													
300V 70°C  1.5 mm²		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													
300V 70°C  2.5 mm²		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