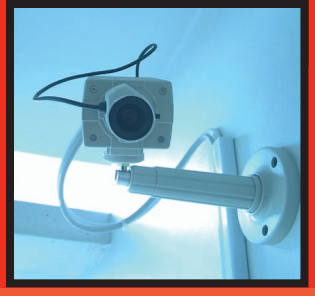
Belden CDT

NEW GENERATION®



NewGeneration® Cables

BELDEN Cable™

Belden CDT

NEW GENERATION®

Table of Contents

New Generation Cables	Page No.
Introduction	13.2
New Generation Cable Finder Guide	13.3–13.6
Security and Alarm Cable	13.7–13.26
Unshielded Multi-conductor: CM Rated, FT1	13.7
Unshielded Multi-conductor: CMR Rated, FT4	13.8
Unshielded Multi-conductor: CL3R Rated	13.10
Unshielded Multi-conductor: Low Smoke, Zero Halogen	13.8.1-13.10.1
Shielded Multi-conductor: CMR Rated, FT4	13.11
Shielded Multi-conductor: CL3R Rated	13.12
Shielded Multi-conductor: Low Smoke, Zero Halogen	13.11.1-13.12.1
Water-blocked, Unshielded Multi-conductor: CM Rated, FT1	13.13
Water-blocked, Shielded Multi-conductor: CM Rated, FT1	13.13
Unshielded Twisted Pairs: CMR Rated, FT4	13.14
Shielded Twisted Pairs: CMR Rated, FT4	13.15
Unshielded + Shielded Twisted Pairs: Low Smoke, Zero Halogen	13.14.1 -13.15.1
Shielded Twisted Pairs + Conductors: CMR Rated, FT4	13.17
Shielded Twisted Pairs + Conductors: Low Smoke, Zero Halogen	13.17.1
Water-blocked, Shielded Twisted Pairs + Conductors: CM Rated, FT1	13.18
Plenum Unshielded Multi-conductor: CMP Rated, FT6	13.19
Plenum Unshielded Multi-conductor: CL2P Rated	13.21
Plenum Shielded Multi-conductor: CMP Rated, FT6	13.22
Plenum Shielded Multi-conductor: CL2P Rated	13.23
Plenum Unshielded Twisted Pairs: CMP Rated, FT6	13.24
Plenum Overall Shielded Twisted Pairs: CMP Rated, FT6	13.25
Plenum Shielded Twisted Pairs+Conductors: CMP Rated, FT6	13.26

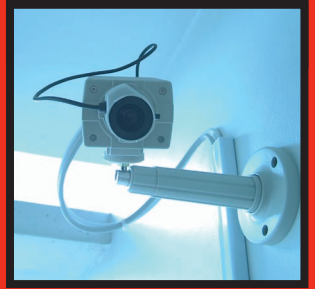
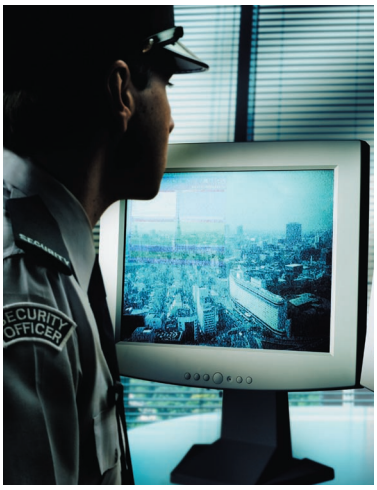


Table of Contents *(cont)*

New Generation Cables	Page No.
Communication and Control Cable	**13.27–13.29**
Plenum Shielded Multi-conductor: CMP Rated, FT6	13.27
Plenum Overall Shielded Pairs: CMP Rated, FT6	13.28
Plenum Shielded Twisted Pairs: CMP Rated, FT6	13.29
Security Coax Cable	**13.30–13.34**
CCTV Coax: CM Rated, FT1	13.30
Water-blocked Coax: CM Rated, FT1	13.30
CCTV Coax: Low Smoke, Zero Halogen	13.30.1
CATV or MATV Coax: CM Rated, FT1	13.31
Schlage Systems Coax: CM Rated, FT1	13.31
CATV or MATV Coax: Low Smoke, Zero Halogen	13.31.1
Composite Coax+Pairs: CM Rated, FT1	13.32
Plenum Composite Coax+Pairs: CMP Rated, FT6	13.32
Composite Coax+Pairs: Low Smoke, Zero Halogen	13.32.1
Plenum CCTV Coax: CMP Rated, FT6	13.33
Plenum CATV or MATV Commercial Coax: CMP Rated, FT6	13.34
Fire Alarm Cable	**13.35–13.40**
Unshielded Multi-conductor: FPLR Rated, FT4	13.35
Unshielded Multi-conductor: Low Smoke, Zero Halogen	13.35.1
Shielded Multi-conductor: FPLR Rated, FT4	13.36
Shielded Multi-conductor: Low Smoke, Zero Halogen	13.36.1
Unshielded Multi-conductor: FPL Rated	13.37
Shielded Multi-conductor: FPL Rated	13.37
Unshielded Multi-conductor: NPLF Rated	13.38
Shielded Multi-conductor: NPLF Rated	13.38
Plenum Unshielded Multi-conductor: FPLP Rated	13.39
Plenum Shielded Multi-conductor: FPLP Rated	13.39
Plenum Unshielded Multi-conductor: FPLP Rated, Mid-Cap	13.40
Plenum Shielded Multi-conductor: FPLP Rated, Mid-Cap	13.40
Audio Cable	**13.41–13.46**
Unshielded Multi-conductor: CMR Rated, FT4	13.41
Unshielded Multi-conductor: CL3R Rated	13.41
Unshielded Multi-conductor: Low Smoke, Zero Halogen	13.41.1
High Strand Unshielded Multi-conductor: CM, CL3 or CL2 Rated	13.42
High Strand Unshielded Multi-conductor: Low Smoke, Zero Halogen	13.42.1
Shielded Multi-conductor: CMR FT4 or CL3R Rated	13.43
Shielded Multi-conductor: Low Smoke, Zero Halogen	13.43.1
Plenum Unshielded Multi-conductor: CMP FT6 or CL2P Rated	13.44
Plenum Shielded Multi-conductor: CMP FT6 or CL2P Rated	13.45
Circuit Integrity & Fire Protection Cable	**13.47**
NP193: Belcoil Packaging	**13.48**
NP199: Banana Peel™ Access Control Composite Cables	**13.49**
NP206: UTP Composite Cables for CCTV Camera Applications	**13.50**
NP216: Banana Peel™ PTZ Composite Cables for CCTV Camera Applications	**13.51**



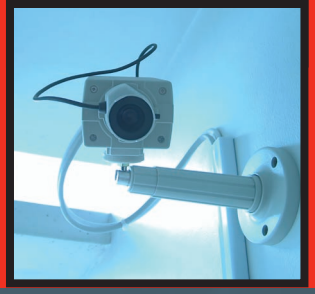
Introduction

Market needs are continually changing the limits of cable technology. And nowhere is the demand for uncompromising quality and leading-edge technology more critical than in security, alarm, and sound applications.

The answer to this challenge is a line of low voltage, electronic cables from Belden-CDT that provide the selection, imagination, technical expertise and quality required to meet the demands of increasingly complex security and alarm systems. We call this line New Generation™.

Our New Generation cable line includes one of the largest, most economical and up-to-date selections of reliable multi-conductor and coaxial products on the market today. A full complement of cables for sound, control, computer interconnect, alarm, security, CCTV and other security applications and building management systems is offered. And behind every one of these cables is years of research and development and Belden's unequaled reputation for quality and service.

Belden also features such innovations as its revolutionary BananaPeel Access Control Composite Cable, BananaPeel CCTV PTZ (Power, Tilt, Zoom) Cable, and Belcoil packaging for selected cables, all designed for easier and more efficient installations.



BananaPeel™ Composite Cables

Belden-CDT's patent pending Banana Peel cable technology fixes individual cables to a center spline or substrate. The individual cables can be easily peeled away from the center spline eliminating the need for composite cables with an overall jacket. Benefits include reduced installation time, smaller overall diameter, easier and more reliable installations by requiring less set-up, pulling, and termination time compared to individual cables, and quicker identification of individual components. BananaPeel technology is available in access control cables and CCTV PTZ camera cables.

BananaPeel Access Control Cables

Belden-CDT 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 installations takes place in a commercial building, a hospital, school, university, corporate site, or government facility, Banana Peel Access Control cables bring a whole new level of ease and convenience to the work site.

Banana Peel CCTV Power Tilt Zoom (PTZ) Camera Cable

Wherever you look today – our offices and public spaces such as hospitals, airports, amusement parks, retail establishments, universities, casinos, sports stadiums, and correctional facilities all have surveillance systems in place to monitor the people visiting and working in these facilities. The main objective of these systems is clear, to protect the people involved with the facility and the facility's assets. CCTV cameras that can swivel and zoom in on particular areas are more frequently used and Banana Peel PTZ cables help facilitate the most effective installations of these cameras by providing all of the video, power, and control cables need for the camera in one easy to use composite cable.

New Generation Fire Resistant, Circuit Integrity Cables

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

Belden-CDT's New Generation line features cables specifically designed for use in areas where a low smoke, zero halogen cable is required to maintain circuit integrity during severe fire conditions. Our line features cables that meet IEC 331 requirements for circuit integrity applications.

These cables are ideal for critical applications such as fire detection systems, emergency lighting, video surveillance, and public address systems. They can be used in all areas like commercial and public buildings, shopping centers, underground stations and tunnels, hospitals, airports, and marine/offshore facilities.

For more information on Belden-CDT's complete line of New Generation cables, please contact us at:

Belden CDT Electronics Division Europe Technical Support
Tel + 31 77 38 75 414
email tech.support@belden.nl
or visit www.beldencdt-newgen.com

Sound, Security and Alarm Cables

Cable Finder Guide — By Application

NEW GENERATION®

AWG Size	No. of Cond.	Stranding	Unshielded						Shielded					
			PVC (Non-Plenum)		Low-Smoke Zero Halogen		Plenum		PVC (Non-Plenum)		Low-Smoke Zero Halogen		Plenum	
			Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
Security, Alarm and Commercial Audio														
12 AWG	2	19	5000UE	13.10/41	4000UE	13.10.1/41.1	6000UE	13.21/44	5000FE	13.12/43	4000FE	13.12.1/43.1	6000FE	13.23/45
3.09mm²	3	19	5001UE	13.10/41	4001UE	13.10.1/41.1	6001UE	13.21/44	-	-	-	-	-	-
	4	19	-	-	-	-	6002UE	13.21	-	-	-	-	-	-
14 AWG	2	19	5100UE	13.10/41	4100UE	13.10.1/41.1	6100UE	13.21/44	5100FE	13.12/43	4100FE	13.12.1/43.1	6100FE	13.23/45
1.95mm²	3	19	5101UE	13.10/41	4101UE	13.10.1/41.1	6101UE	13.21/44	5101FE	13.12/43	-	-	6101FE	13.23/45
	4	19	5102UE	13.10	4102UE	13.10.1	6102UE	13.21	-	-	-	-	-	-
16 AWG	2	19	5200UE	13.9/41	4200UE	13.9.1/41.1	6200UE	13.20/44	5200FE	13.12/43	4200FE	13.12.1/43.1	6200FE	13.23/45
1.23mm²	3	19	5201UE	13.9/41	4201UE	13.9.1/41.1	6201UE	13.20/44	5201FE	13.12/43	4201FE	13.12.1/43.1	6201FE	13.23/45
	4	19	5202UE	13.9	4202UE	13.9.1	6202UE	13.20	5202FE	13.12	4202FE	13.12.1	6202FE	13.23
	7	19	5205UE	13.9	-	-	6205UE	13.20	-	-	-	-	-	-
18 AWG	2	Solid	5320UE	13.9/41	-	-	6320UE	13.20/44	5320FE	13.12/43	-	-	6320FE	13.23/45
	2	7	5300UG	13.7	4300UE	13.9.1/41.1	6300UG	13.20/44	5300FE	13.12/43	4300FE	13.12.1/43.1	6300FE	13.23/45
Solid:	2	7	5300UE	13.9/41	4300UE	13.9.1/41.1	6300UE	13.20/44	5300FE	13.12/43	4300FE	13.12.1/43.1	6300FE	13.23/45
0.82mm²	3	Solid	5321UE	13.9/41	4321UE	13.9.1/41.1	6321UE	13.20/44	-	-	-	-	-	-
	3	7	5301UE	13.9/41	4301UE	13.9.1/41.1	6301UE	13.20/44	5301FE	13.12/43	4301FE	13.12/43.1	6301FE	13.23/45
Stranded:	4	Solid	5322UE	13.9	-	-	6322UE	13.20	-	-	-	-	-	-
0.90mm²	4	7	5302UE	13.9	4302UE	13.9.1	6302UE	13.20	5302FE	13.12	4302FE	13.12.1	6302FE	13.23
	5	7	5303UE	13.9	4303UE	13.9.1	6303UE	13.20	5303FE	13.12	4303FE	13.12.1	-	-
	6	7	5304UE	13.9	4304UE	13.9.1	6304UE	13.20	5304FE	13.12	4304FE	13.12.1	6304FE	13.23
	7	7	5305UE	13.9	-	-	-	-	5305FE	13.12	-	-	-	-
	8	7	5306UE	13.9	4306UE	13.9.1	6306UE	13.20	5306FE	13.12	4306FE	13.12.1	6306FE	13.23
	9	7	5307UE	13.9	-	-	6307UE	13.20	5307FE	13.12	4307FE	13.12.1	6307FE	13.23
	10	7	5308UE	13.9	4308UE	13.9.1	6308UE	13.20	-	-	-	-	-	-
	12	7	5309UE	13.9	4309UE	13.9.1	6309UE	13.20	-	-	-	-	6309FE	13.23
	20	7	530BUE	13.9	-	-	-	-	-	-	-	-	-	-
20 AWG	2	Solid	-	-	-	-	-	-	-	-	-	-	6420FE	13.22/45
	2	7	5400UE	13.8/41	4400UE	-	6400UE	13.19/44	5400FE	13.11/43	4400FE	13.11.1/43.1	6400FE	13.22/45
Solid:	3	Solid	-	-	-	-	-	-	5421FE	13.43	-	-	-	-
0.52mm²	3	7	5401UE	13.8/41	-	-	6401UE	13.19/44	5401FE	13.11/43	4401FE	13.11.1/43.1	6401FE	13.22/45
	4	7	5402UE	13.8	4402UE	-	6402UE	13.19	5402FE	13.11	4402FE	13.11.1	6402FE	13.22
Stranded:	5	7	5403UE	13.8	-	-	6403UE	13.19	5403FE	13.11	-	-	-	-
0.56mm²	5	7	5403UE	13.8	-	-	6403UE	13.19	5403FE	13.11	4403FE	13.11.1	-	-
	7	7	5405UE	13.8	-	-	-	-	5405FE	13.11	-	-	6405FE	13.22
	8	7	5406UE	13.8	-	-	6406UE	13.19	-	-	-	-	-	-
	9	7	5407UE	13.8	-	-	-	-	5407FE	13.11	-	-	6407FE	13.22
	10	7	5408UE	13.8	-	-	-	-	-	-	-	-	-	-
	12	7	5409UE	13.8	-	-	-	-	-	-	-	-	-	-
	20	7	540BUE	13.8	-	-	-	-	-	-	-	-	-	-
22 AWG	2	Solid	5520UG	13.8/41	4520UE	13.8.1/41.1	6520UE	13.19/44	5520FE	13.11/43	4520FE	13.12.1/43.1	6520FE	13.22/45
	2	7	5500UG	13.7	4500UE	13.8.1/41.1	6500UE	13.19/44	5500FE	13.11/43	4500FE	13.12.1/43.1	6500FE	13.22/45
Solid:	2	7	5500UE	13.8/41	4500UE	13.8.1/41.1	6500UE	13.19/44	5500FE	13.11/43	4500FE	13.12.1/43.1	6500FE	13.22/45
0.32mm²	3	Solid	-	-	-	-	6521UE	13.19/44	5521FE	13.11/43	-	-	6521FE	13.22/45
	3	7	5501UE	13.8/41	4501UE	13.8.1/41.1	6501UE	13.19/44	5501FE	13.11/43	4501FE	13.11.1	6501FE	13.22/45
Stranded:	4	Solid	5582UG	13.7	4582UE	13.8.1	-	-	-	-	-	-	-	-
0.35mm²	4	Solid	5522UE	13.8	-	-	6522UE	13.19	-	-	-	-	-	-
	4	Solid	5582UE	13.8	4582UE	13.8.1	6522UE	13.19	-	-	-	-	-	-
	4	7	5502UG	13.7	4502UE	13.8.1	6502UE	13.19	5502FE	13.11	4502FE	13.11.1	6502FE	13.22
	4	7	5502UE	13.8	4502UE	13.8.1	6502UE	13.19	5502FE	13.11	-	-	6502FE	13.22
	5	7	5503UE	13.8	-	-	-	-	5503FE	13.11	-	-	-	-
	6	Solid	5524UE	13.8	-	-	6524UE	13.19	-	-	-	-	-	-
	6	7	5504UE	13.8	4504UE	13.8.1	6504UE	13.19	5504FE	13.11	4504FE	13.11.1	6504FE	13.22
	8	Solid	5526UE	13.8	-	-	-	-	-	-	-	-	-	-
	8	7	5506UE	13.8	4506UE	13.8.1	6506UE	13.19	5506FE	13.11	4506FE	13.11.1	6506FE	13.22
	10	7	5508UE	13.8	-	-	6508UE	13.19	5508FE	13.11	4508FE	13.11.1	6508FE	13.22
	12	Solid	5529UE	13.8	-	-	-	-	-	-	-	-	-	-
	12	7	5509UE	13.8	4509UE	13.8.1	6509UE	13.19	-	-	-	-	-	-
24 AWG	2	7	-	-	-	-	-	-	5600FE	13.11/43	-	-	-	-
0.23mm²														