

To ensure optimum security installation performance, be sure to use Belden New Generation Cables. This product line represents one of the largest, most economical and up-to-date selections of multi-conductor and coaxial products on the market today: A full complement of cables for Access Control, CCTV, Computer Interconnect, Alarm, Fire Alarm and other security applications - complete with water-blocked options for installation in intermittently wet environments.

NewGen offers installer friendly features:

- NEC riser and plenum rated; UL and C (UL) listed as applicable
- Rip cords for easy jacket removal; sequential footage markings on the jacket to eliminate guesswork and waste
- A unique composite cable design, Access Control Banana Peel, Strips away installation time and labor
- Belden's unique quality and 10 year product warranty

Access Control, Burglar Alarm and Fire Alarm Cable Ordering Information

To use the configuration matrix, make a selection from each category and combine to form a custom part number. See examples below.

Part number example from configuration shown below:

6304FE

6		3		0		4		F		E	
Location		AWG Size		Conductor Type		# of Conductors		Shielding		Application	
5	Non-Plenum	E	8	0	Stranded Multi-Conductor	0	2 conductors	C	Foil plus 85% braid, overall (m/c, pairs)	1	Waterblocked multi-conductor
6	Plenum	T	10	2	Solid Multi-Conductor	1	3 conductors or 2 pairs	F	Overall foil w/drain (m/c or multipair)	A	FEP Insulation / Teflon® jacket, plenum cable
		0	12	4	Stranded Paired Conductor	2	4 conductors or 3 pairs	G	One foil shielded pair w/drain (m/c, pair(s) combo)	C	Halar® jacket, plenum cable
		1	14	6	Solid Paired Conductor	3	5 conductors or 4 pairs	H	SPOS – shielded pairs and O/A foil shield	E	Power limited communication cable. High capacitance.
		2	16	8	Composite Cable	4	6 conductors	P	Individual shielded pairs with drain (multipairs)	G	Non-riser rated, may be un-cabled.
		3	18			5	7 conductors or 6 pairs	U	Unshielded (m/c, pairs)	J	Power limited fire protective. Mid - capacitance. Or outer jacket on composite cable.
		4	20			6	8 conductors	M	Mixed shielded/unshielded combo (only banana peel)	K	Fire Alarm, Halar® / Flamarrrest®, Mid Capacitance
		5	22			7	9 conductors or 9 pairs			L	Power limited fire protective. High - capacitance.
		6	24			8	10 conductors or 12 pairs			N	PVC / Nylon Insulation, NPLF rated
						9	12 conductors			P	High Strand Audio
						A	16 conductors			Q	Residential Audio
						B	20 conductors			S	Spline

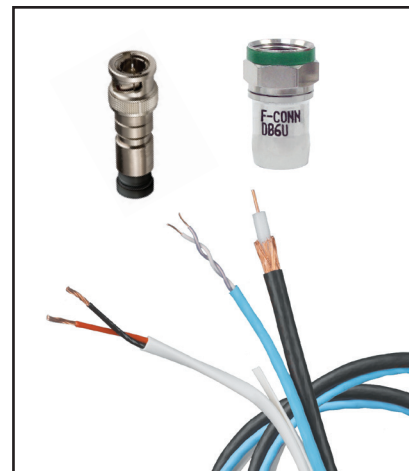
Examples	Location	AWG Size	Conductor Type	# of Conductors	Shielding	Application	Belden Part #
Access Control	5	5	0	0	F	E	5500FE
Fire Alarm Cables	6	4	2	0	F	L	6420FL
Burglar Alarm /Commercial Sound	5	1	0	0	U	E	5100UE

Access Control Banana Peel

Examples	Location	AWG Size	Conductor Type	# of Conductors	Shielding	Application	Belden Part #
Banana Peel Mixed Shielded/Unshielded	5	5	8	A	M	S	558AMS
Jacketed Composite Cable Mixed Shielded/Unshielded	6	5	8	A	M	J	658AMJ
Jacketed Composite Cable Shielded	5	5	8	A	F	J	558AFJ
Banana Peel Shielded	6	5	8	A	F	S	658AFS

Coaxes for CCTV

CCTV Coax Type				# of Pairs	AWG of Copper Pair #1	AWG of Copper Pair #2	Siamese Construction	Belden Part Number	
RG-Type	AWG	Conductor & Shielding Material	% Coverage					Non-Plenum	Plenum
Mini RG-59	25	Bare Copper	95%	1	20	–	√	579945	679948
RG-59/U	20	Bare Copper	93%	–	–	–	–	543945	643948
RG-59/U	20	Bare Copper	95%	1	18	–	√	549945	649948
RG-6/U	18	Bare Copper	95%	–	–	–	–	533945	633948
RG-6/U	18	Bare Copper	95%	1	18	–	√	539945	639948
RG-11/U	14	Bare Copper	95%	–	–	–	–	513945	613948



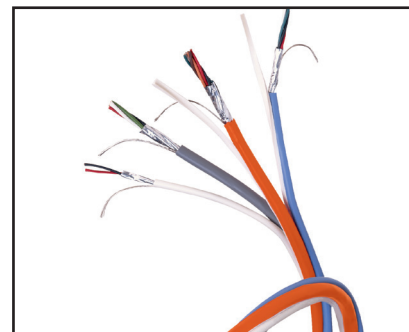
Pan / Tilt / Zoom Banana Peel Coax

CCTV Coax Type				# of Pairs	AWG of Copper Pair #1	AWG of Copper Pair #2	Banana Peel Construction	Belden Part Number	
RG-Type	AWG	Conductor & Shielding Material	% Coverage					Riser	Plenum
RG-59/U	20	Bare Copper	95%	2	18	23	√	500PTZ	600PTZ
RG-59/U	20	Bare Copper	95%	2	18	22	√	501PTZ	601PTZ
RG-59/U	20	Bare Copper	95%	2	18	18	√	502PTZ	602PTZ



UTP - CCTV

Unshielded Pair(s) #1			Unshielded Pair(s) #2		Construction Type	Belden Part Number	
Rating	AWG	# of Pairs	AWG	# of Pairs		Riser	Plenum
Cat 5e	24	2	16	2	Siamese	5284US	6284US
Cat 5e	23	2	16	2	Round	5284UE	6284UE
Cat 5e	24	4	16	2	Siamese	5288US	6288US



Access Control, Burglar Alarm and Fire Alarm

AWG	Conductor Count	Shielding		Belden Part Number	
		Unshielded	Shielded	Riser	Plenum
Burglar Alarm / Commercial Sound					
22	2	√	–	5500UE	6500UE
22	4	√	–	5502UE	6502UE
22	6	√	–	5504UE	6504UE
22	2	–	√	5500FE	6500FE
22	4	–	√	5502FE	6502FE
22	6	–	√	5504FE	6504FE
22	8	–	√	5506FE	6506FE
18	2	√	–	5300UE	6300UE
18	4	√	–	5302UE	6302UE
18	6	√	–	5304UE	6304UE
18	2	–	√	5300FE	6300FE
18	3	–	√	5301FE	6301FE
18	4	–	√	5302FE	6302FE
18	6	–	√	5304FE	6304FE
16	2	√	–	5200UE	6200UE
16	2	–	√	5200FE	6200FE
14	2	√	–	5100UE	6100UE
14	2	–	√	5100FE	6100FE
12	2	√	–	5000UE	6000UE
12	2	–	√	5000FE	6000FE
Fire Alarm Cables					
22	2	√	–	5520UL	6520UL
22	2	–	√	5520FL	6520FL
20	2	√	–	5420UL	6420UL
20	2	–	√	5420FL	6420FL
18	2	√	–	5320UL	6320UL
18	2	–	√	5320FL	6320FL
16	2	√	–	5220UL	6220UL
16	2	–	√	5220FL	6220FL
14	2	√	–	5120UL	6120UL
14	2	–	√	5120FL	6120FL
12	2	√	–	5020UL	6020UL
12	2	–	√	5020FL	6020FL

AWG	Conductor Count	Conductors Twisted In Pairs	Shielding		Belden Part Number	
			Unshielded	Shielded	Riser	Plenum
Access Control						
22	2	–	–	√	5500FE	6500FE
22	4	Yes	–	√	5541FE	6541FE
22	6	Yes	–	√	5542FE	6542FE
22	2	–	√	–	5500UE	6500UE
22	4	Yes	√	–	5541UE	6541UE
22	6	Yes	√	–	5542UE	6542UE
22	6	–	–	√	5504FE	6504FE
20	4	–	–	√	5402FE	6402FE
20	4	Yes	–	√	5441FE	6441FE
18	2	–	–	√	5300FE	6300FE
18	4	–	–	√	5302FE	6302FE
18	6	Yes	–	√	5342FE	6342FE
18	8	Yes	–	√	5343FE	6343FE
18	12	Yes	–	√	5345FE	6345FE
18	2	–	√	–	5300UE	6300UE
16	4	–	–	√	5202FE	6202FE

AWG	Conductor Count	Bundle Type	Properties			Belden Part Number	
			Shielded	Banana Peel Technology	Outer Jacket	Riser	Plenum
Access Control Mid-Distance							
22	6	Construction 1 Options	–	√	–	558AMS	658AMS
22	2		–	–	√	558AMJ	658AMJ
22	4		YES	–	√	558AFJ	658AFJ
18	4		YES	√	–	558AFS	658AFS
Access Control Extended Distance							
18	6	Construction 2 Options	–	√	–	538AMS	638AMS
18	2		–	–	√	538AMJ	638AMJ
18	4		YES	–	√	538AFJ	638AFJ
16	4		YES	√	–	538AFS	638AFS

Banana Peel - 658AFS - Color Coding	
Lock Power (6302FE)	4 c / 18 AWG Shielded
Card Reader (6542FE)	3 p / 22 AWG Shielded
Door Contact (6500FE)	2 c / 22 AWG Shielded
REX/Spare (6502FE)	4 c / 22 AWG Shielded

