

Security Coaxial Cable

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



Coax
CM FT1 Rated

Product Description

Bare copper conductor, foam polyethylene insulation, bare copper braid shield. Black PVC jacket. Sequential footage marking every two feet.

Water-blocked Coax

CM FT1 Rated

Product Description

Bare copper conductor, foam polyolefin insulation, foil plus braid shield as shown per item, braid impregnated with CoreGuard® flame retardant flooding compound, Black UV resistant PVC jacket. Sequential footage marking every two feet.

Specifications

Conductor	Bare Copper
Insulation	FPE
Shield	
Coax	Bare Copper Braid
Water-blocked Coax	Foil + Braid
Jacket	PVC
Approvals	
NEC	CM
CEC	CM FT1
NEC Articles	800
Nominal Impedance	75Ω
Temperature Rating	75°C

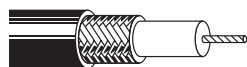
Applications

- CCTV
- Video Security Coax

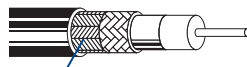
Solid Conductor



Stranded Conductor



Water-blocked



CoreGuard

Part No.	AWG	Stranding and Conductor	Shield/Braid Coverage	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
				Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

Coax (NEC CM and CEC CM FT1)

Mini RG-59 Type											
573945*	25	solid BC	94% BC	.085	2.16	.146	3.71	U-1000	U-305	15.0	6.8
								1000	305	14.0	6.4

RG-59 Type											
551945	22	7/w BC	95% BC	.140	3.56	.232	5.89	U-1000	U-305	33.0	15.0
								1000	305	30.0	13.6

543945*	20	solid BC	95% BC	.145	3.68	.232	5.89	U-500	U-152	12.5	5.7
								500	152	13.0	6.0
								U-1000	U-305	25.0	11.3
								1000	305	31.0	14.1

RG-6 Type											
533945*	18	solid BC	95% BC	.180	4.57	.266	6.76	500	152	21.0	9.5
								U-1000	U-305	40.0	18.1
								1000	305	41.0	18.6

RG-11 Type											
513945	14	solid BC	95% BC	.280	7.11	.405	10.29	500	152	52.5	23.8
								1000	305	98.0	44.5

Water-blocked Coax (NEC CM and CEC CM FT1)

RG-59 Type											
5439W5	20	solid BC	Duobond® II + 95% tinned copper braid	.145	3.68	.236	5.99	U-500	U-152	17.5	7.9
								500	152	17.5	7.9
								U-1000	U-305	34.0	15.4
								1000	305	34.0	15.4

RG-6 Type											
5339W5	18	solid BC	Duofoil® + 60% aluminum braid	.180	4.57	.270	6.86	U-500	U-152	15.5	7.0
								500	152	15.5	7.0
								U-1000	U-305	30.0	13.6
								1000	305	30.0	13.6

BC = Bare Copper

*Available in other jacket colors. Consult www.belden.com.

Security Composite Cable

CCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Plenum-Rated and Non-Plenum



Non-Plenum Composite Coax plus Twisted Pair

CM FT1 or CMG-LS FT4 Rated

Product Description

Coax: Solid bare copper conductor, foam polyolefin insulation, bare copper braid shield. Black PVC jacket (1306SB has Black LSZH jacket).

Pair: Stranded bare copper conductor, PVC insulation, Black PVC jacket. (1306SB has polypropylene insulation. Black LSZH jacket.) Color coded: Black & Red.

Plenum-Rated Composite Coax plus Twisted Pair

CMP FT6 Rated

Product Description

Coax: Solid bare copper conductor, FEP insulation, bare copper braid shield, Natural Flamarrest® jacket.

Pair: Stranded FEP insulation, Natural Flamarrest jacket. Color coded: Black & Red.

Coax and pair in Siamese configuration. Sequential footage marking every two feet.

Specifications

Conductor	Bare Copper
Insulation (Non-Plenum)	FPO Coax Pair PVC
Insulation (Plenum)	FEP
Shield (Coax)	Bare Copper Braid
Jacket	PVC Non-Plenum Flamarrest Plenum
Approvals (Non-Plenum)	CM NEC CEC CM FT1
Approvals (LSZH)	CMG-LS NEC CEC CMG-LS FT4 Limited Smoke
Approvals (Plenum)	CMP NEC CEC CMP FT6
NEC Articles	800
Nominal Impedance (Coax)	75Ω
Temperature Rating	75°C

Applications

- CCTV plus Audio or Power
- Pan, Tilt and Zoom CCTV Control



Part No.	AWG	Stranding and Conductor	Shield/Braid Coverage	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
				Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

CM-Rated Composite (NEC CM and CEC CM FT1)

Mini RG-59 Type											
579945 <small>new</small>	25(cx)	solid BC	95% BC	.085	2.16	.151	3.84	500	152	15.0	6.8
	20(pr)	7/w BC	unshielded	.056	1.42	x	x	1000	305	29.0	13.2

RG-59 Type											
549945	20(cx)	solid BC	95% BC	.145	3.68	.232	5.89	500	152	30.0	13.6
	18(pr)	7/w BC	unshielded	.066	1.68	x	x	1000	305	60.0	27.3

RG-6 Type											
539945	18(cx)	solid BC	95% BC	.180	4.57	.266	6.76	500	152	34.0	15.5
	18(pr)	7/w BC	unshielded	.066	1.68	x	x	1000	305	69.0	31.3

CMG-LS -Rated Composite (NEC CMG-LS and CEC CMG-LS FT4 Limited Smoke)

RG-6 Type											
1306SB <small>new</small>	18(cx)	solid BC	95% BC	.180	4.57	.275	6.99	500	152	37.0	16.8
	18(pr)	7/w BC	unshielded	.059	1.59	x	x	1000	305	76.0	34.5

Plenum-Rated Composite (NEC CMP and CEC CMP FT6)

Mini RG-59 Type											
679948* <small>new</small>	25(cx)	solid BC	95% BC	.078	1.98	.144	3.66	500	152	16.5	7.4
	20(pr)	7/w BC	unshielded	.048	1.22	x	x	1000	305	34.0	15.5

RG-59 Type											
649948	20(cx)	solid BC	95% BC	.134	3.40	.199	5.05	500	152	29.0	13.2
	18(pr)	7/w BC	unshielded	.059	1.50	x	x	1000	305	54.0	24.5

RG-6 Type											
639948	18(cx)	solid BC	95% BC	.170	4.32	.232	5.89	500	152	32.0	14.5
	18(pr)	7/w BC	unshielded	.059	1.50	x	x	1000	305	60.0	27.2

BC = Bare Copper • cx = Coax • pr = Pair • LSZH = Low-Smoke, Zero-Halogen

*679948 also available in White.

Security Coaxial Cable

CCTV and Card Reader/Sensor Applications
Plenum-Rated



Plenum-Rated Coax

CMP FT6 Rated

Product Description

Bare copper or copper-covered steel conductor, foam FEP insulation, bare copper braid shield. Natural Flamarrest® jacket (except 613948 which is White fluorocopolymer). Sequential footage marking every two feet.

Specifications

Conductor	Solid BC or BCCS
Insulation	Foam FEP
Shield	Bare Copper Braid
Jacket	Flamarrest†
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Nominal Impedance	75Ω
Nominal Impedance (6539Y8 only)	93Ω
Temperature Rating	75°C

†613948 jacket is White fluorocopolymer.

Applications

- CCTV
- Card Reader/Sensor (6539Y8)



Part No.	AWG	Stranding and Conductor	Shield/Braid Coverage	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
				Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

Plenum-Rated Coax for CCTV (NEC CMP and CEC CMP FT6)

Mini RG-59 Type											
673948	25	solid BC	95% BC	.078	1.98	.146	3.71	U-500	U-152	9.0	4.1
								U-1000	U-305	17.0	7.7
								1000	305	17.0	7.7

RG-59 Type											
643948*	20	solid BC	95% BC	.135	3.43	.193	4.90	U-500	U-152	16.0	7.3
								500	152	17.5	8.0
								U-1000	U-305	30.0	13.6
								1000	305	32.0	14.5

RG-6 Type											
633948	18	solid BC	95% BC	.170	4.32	.228	5.79	U-500	U-152	20.5	9.8
								500	152	20.5	9.8
								U-1000	U-305	40.0	18.1
								1000	305	42.0	19.1

RG-11 Type											
613948	14	solid BC	95% BC	.274	6.96	.348	8.84	500	152	44.5	20.2
								1000	305	90.0	40.9

*643948 also available in Black jacket.

Plenum-Rated Coax for Card Readers/Sensors (NEC CMP, CEC CMP FT6)

RG-62 Type											
6539Y8	22	solid BCCS	95% BC	.146	3.71	.204	5.18	U-1000	U-305	31.0	14.1
								1000	305	33.0	15.0

BC = Bare Copper • BCCS = Bare Copper-covered Steel

Security UTP Cable

CCTV Fixed and PTZ Applications

Riser-Rated



Non-Plenum

CM FT1 or CMR FT4 Rated

Product Description

Solid bare copper conductors, unshielded twisted pairs, polyolefin insulation, PVC jacket with rip cord. Sequential footage marking every two feet.

Specifications

Conductor	Solid Bare Copper
Shield	Unshielded
Jacket	PVC
Approvals	CM or CMR NEC CEC CM FT1 or CMR FT4
Nominal Impedance	100Ω
Temperature Rating	80°C

Applications:

- 100BaseTX
- 100BaseVG ANYLAN
- 155ATM
- 622ATM
- AES/EBU
- Digital Video, RS-422
- Gigabit Ethernet
- NTSC/PAL Component or Composite Video
- Premise Horizontal Cable
- CCTV UTP
- PTZ
- Pan/Tilt/Zoom



Part No.	Component Descriptions	Insulation Material	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

Non-Plenum (NEC CM and CEC CM FT1)

Category 5e										
1583A <small>NEW</small>	4-Pair UTP	Polyolefin	.008	0.20	.195	4.95	U-1000	U-305	21.0	9.5
	24 AWG						1000	305	21.0	9.5
	Solid						1640	500	34.4	15.7
	Bare Copper Cond.						3000	915	63.0	28.6
1500A <small>NEW</small>	4-Pair UTP	Polyolefin	.008	0.20	.200	5.08	A-1000	A-305	26.0	11.8
	24 AWG						1000	305	23.0	10.4
	Solid									
	Bare Copper Cond.									

Non-Plenum (NEC CMR and CEC CMR FT4)

Category 5e										
1583R <small>NEW</small>	4-Pair UTP	Polyolefin	.007	0.18	.197	5.00	U-1000	U-305	22.0	10.0
	24 AWG						1000	305	22.0	10.0
	Solid						3000	915	63.0	28.6
	Bare Copper Cond.									
1500R <small>NEW</small>	4-Pair UTP	Polyolefin	.007	0.18	.194	5.00	A-1000	A-305	27.0	12.2
	24 AWG						1000	305	24.0	10.9
	Solid									
	Bare Copper Cond.									
Category 6										
7881A <small>NEW</small>	4-Pair UTP	Polyolefin	.010	0.18	.235	5.97	A-1000	A-305	33.0	15.0
	23 AWG						1000	305	30.0	13.6
	Solid									
	Bare Copper Cond.									

UTP = Unshielded Twisted Pair

Refer to www.belden.com for jacket colors and put-ups.

Color Code Chart

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



Security UTP Cable

CCTV Fixed and PTZ Applications

Plenum-Rated



Plenum-Rated

CMP FT6 Rated

Product Description

Solid bare copper conductors, unshielded twisted pairs, FEP Teflon® insulation, Flamarrest® jacket with rip cord. Sequential footage marking every two feet.

Specifications

Conductor	Solid Bare Copper
Shield	Unshielded
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Nominal Impedance	100Ω
Temperature Rating	75°C

Applications:

- 100BaseTX
- 100BaseVG ANYLAN
- 155ATM
- 622ATM
- AES/EBU
- Digital Video, RS-422
- Gigabit Ethernet
- NTSC/PAL Component or Composite Video
- Premise Horizontal Cable
- CCTV UTP
- Pan/Tilt/Zoom (PTZ)



Part No.	Component Descriptions	Insulation Material	Insulation Nominal OD		Nominal OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

Plenum-Rated (NEC CMP and CEC CMP FT6)

Category 5e										
1585A <small>new</small>	4-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP Teflon	.007	0.18	.195	4.95	U-1000 1000 3000	U-305 305 915	23.0 24.0 69.0	10.4 10.9 31.3
1501A <small>new</small>	4-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP Teflon	.008	0.20	.195	4.95	A-1000 1000	A-305 305	26.0 23.0	11.8 10.4
Category 6										
7882A <small>new</small>	4-Pair UTP 23 AWG Solid Bare Copper Cond.	FEP Teflon	.009	0.23	.224	5.69	A-1000 1000	A-305 305	32.0 29.0	14.5 13.2

UTP = Unshielded Twisted Pair

Refer to www.belden.com for jacket colors and put-ups.

Color Code Chart

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

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com