

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

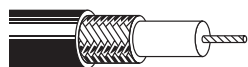
Applications

- CCTV
- Video Security Coax

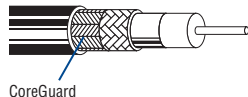
Solid Conductor



Stranded Conductor



Water-blocked



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)	
Coax	FPO
Pair	PVC
Insulation (Plenum)	FEP
Shield (Coax)	Bare Copper Braid
Jacket	
Non-Plenum	PVC
Plenum	Flamarrest
Approvals (Non-Plenum)	
NEC	CM
CEC	CM FT1
Approvals (LSZH)	
NEC	CMG-LS
CEC	CMG-LS FT4 Limited Smoke
Approvals (Plenum)	
NEC	CMP
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 new	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
						.332	8.43				

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
						.460	11.68				

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
						.500	12.70				

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

RG-6 Type											
1306SB new	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
						.514	13.06				

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

Mini RG-59 Type											
679948* new	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
						.328	8.33				

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
						.383	9.72				

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
						.416	10.57				

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.

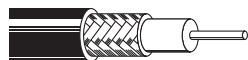
Specifications

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

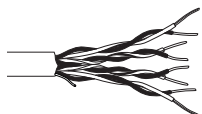
Solid bare copper conductors, unshielded twisted pairs, polyolefin insulation, PVC jacket with rip cord. Sequential footage marking every two feet.

Specifications

Conductor	Solid Bare Copper
Shield	Unshielded
Jacket	PVC
Approvals	CM or CMR NEC CEC
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 new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.008	0.20	.195	4.95	U-1000 1000 1640 3000	U-305 305 500 915	21.0 21.0 34.4 63.0	9.5 9.5 15.7 28.6
1500A new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.008	0.20	.200	5.08	A-1000 1000	A-305 305	26.0 23.0	11.8 10.4

Non-Plenum (NEC CMR and CEC CMR FT4)

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

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



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

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Security UTP Cable

CCTV Fixed and PTZ Applications
Plenum-Rated



Plenum-Rated

CMP FT6 Rated

Product Description

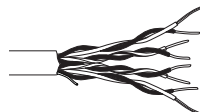
Solid bare copper conductors, unshielded twisted pairs, FEP Teflon® insulation, Flamarrest® jacket with rip cord. Sequential footage marking every two feet.

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 new	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 new	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 new	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.

BELDEN

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

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Pan/Tilt/Zoom Banana Peel® Composite

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



Composite Coax, Pair and Multi-Conductors

CMR/CMG FT4 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductor, gas-injected foam high-density polyethylene insulation, bare copper braid shield (95% coverage), Black PVC jacket.

(1) Pair: 23 AWG solid bare copper conductors, polyolefin insulation, Blue PVC jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

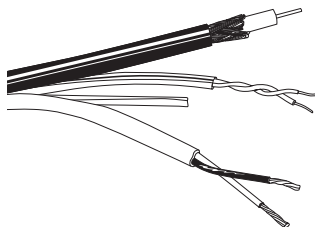
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, PVC insulation, White flame-retardant PVC jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Unshielded
Power	Unshielded
Component Jackets	PVC
Overall Jacket	None
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

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



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

Composite (NEC CMR and CEC CMG FT4)

RG-59/U 20 AWG Coax • Cat. 5e 23 AWG Pair • 18 AWG Cond.										
500PTZ new	(1) Coax: RG-59/U 20 AWG (solid) Bare Copper Cond.	Gas-injected Foam HDPE, Bare Copper Braid Shield (95% coverage)	.227	5.57	.411	10.4	500	152	38.5	17.5
	(1) 1-Pair 23 AWG (solid) Bare Copper Cond.	Polyolefin, Unshielded	.118	3.00			1000	305	71.0	32.3
	(1) 2-Cond. 18 AWG Stranded (7x26) Bare Copper Cond.	PVC, Unshielded	.171	4.34						

HDPE = High-density Polyethylene

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax, RG-59/U, 20 AWG, 95% Braid
Blue	1/P, 23 AWG, Unshielded
White	2/C, 18 AWG, Unshielded

Pan/Tilt/Zoom Banana Peel® Composite

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



Composite Coax, Pair and Multi-Conductors CMP FT6 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductor, Foam Perfluoroalkoxy (FPFA) insulation, bare copper braid shield (95% coverage), Black Flamarrest® jacket.

(1) Pair: 23 AWG solid bare copper conductors, FEP insulation, Blue Flamarrest jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

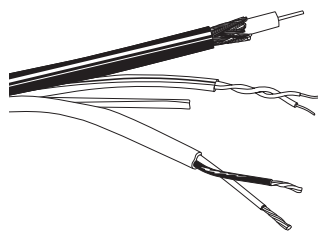
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, Flamarrest insulation, White Flamarrest jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Unshielded
Power	Unshielded
Component Jackets	Flamarrest
Overall Jacket	None
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

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



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

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

RG-59/U 20 AWG Coax • Cat. 5e 23 AWG Pair • 18 AWG Cond.										
600PTZ NEW	(1) Coax: RG-59/U 20 AWG (solid) Bare Copper Cond.	FPFA, Bare Copper Braid Shield (95% coverage)	.193	4.90	.351	8.9	500	152	38.5	17.5
							1000	305	71.0	32.2
	(1) 1-Pair 23 AWG (solid) Bare Copper Cond.	FEP, Unshielded	.116	2.95						
	(1) 2-Cond. 18 AWG Stranded (7x26) Bare Copper Cond.	Flamarrest, Unshielded	.158	4.01						

FEP = Fluorinated Ethylene Propylene • FPFA = Foam Perfluoroalkoxy

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax, RG-59/U, 20 AWG, BC Braid (95%)
Blue	1/P, 23 AWG, Unshielded
White	2/C, 18 AWG, Unshielded

Pan/Tilt/Zoom Banana Peel® Composite

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



Composite Coax, Pair and Multi-Conductors

CMR/CMG FT4 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductor, gas-injected foam high-density polyethylene insulation, bare copper braid shield (95% coverage), Black PVC jacket.

(1) Pair: 22 AWG stranded (7x30) bare copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), Blue PVC jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

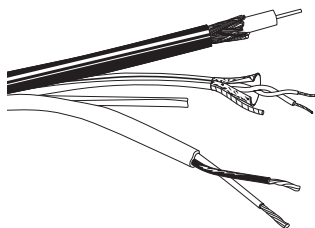
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, PVC insulation, White flame-retardant PVC jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Aluminum/Polyester
Power	Unshielded
Component Jackets	PVC
Overall Jacket	None
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

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



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

Composite (NEC CMR and CEC CMG FT4)

RG-59/U 20 AWG Coax • Cat. 5e 22 AWG Pair • 18 AWG Cond.										
501PTZ new	(1) Coax: RG-59/U 20 AWG (solid) BC Cond.	Gas-injected Foam HDPE, BC Braid Shield (95% coverage)	.227	5.57	.419	10.6	500	152	41.0	18.6
	(1) 1-Pair 22 AWG (7x30) BC Cond.	Polyolefin, Beldfoil Shield (100% coverage)	.177	4.50			1000	305	76.0	34.5
	(1) 2-Cond. 18 AWG Stranded (7x26) BC Cond.	PVC, Unshielded	.171	4.34						

BC = Bare Copper • HDPE = High-density Polyethylene

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax: RG-59/U, 20 AWG, BC Braid Shield
Blue	1/P, 22 AWG, Beldfoil Shield
White	2/C, 18 AWG, Unshielded

Pan/Tilt/Zoom Banana Peel® Composite

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



Composite Coax, Pair and Multi-Conductors

CMP FT6 Rated

Product Description

(1) **Coax:** 20 AWG solid bare copper conductor, Foam Perfluoroalkoxy (FPFA) insulation, bare copper braid shield (95% coverage), Black Flamarrest® jacket.

(1) **Pair:** 22 AWG stranded (7x30) bare copper conductors, FEP insulation, Beldfoil® shield (100% coverage), Blue Flamarrest jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

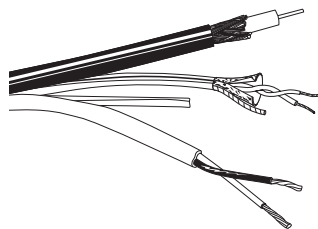
(2) **Conductors:** 18 AWG stranded (7x26) bare copper conductors, Flamarrest insulation, White Flamarrest jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Aluminum/Polyester
Power	Unshielded
Component Jackets	Flamarrest
Overall Jacket	None
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

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



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

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

RG-59/U 20 AWG Coax • Cat. 5e 22 AWG Pair • 18 AWG Cond.										
601PTZ new	(1) Coax: RG-59/U 20 AWG (solid) BC Cond.	FPFA, BC Braid Shield (95% coverage)	.193	4.90	.351	8.9	500	152	40.0	18.2
	(1) 1-Pair 22 AWG (7x30) BC Cond.	FEP, Beldfoil Shield (100% coverage)	.116	2.95			1000	305	73.0	33.2
	(1) 2-Cond. 18 AWG Stranded (7x26) BC Cond.	Flamarrest, Unshielded	.158	4.01						

BC = Bare Copper • FEP = Fluorinated Ethylene Propylene • FPFA = Foam Perfluoroalkoxy

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax: RG-59/U, 20 AWG, BC Braid Shield
Blue	1/P, 22 AWG, Beldfoil Shield
White	2/C, 18 AWG, Unshielded

Pan/Tilt/Zoom Banana Peel® CompositeCCTV plus Audio or Power or Pan and Tilt CCTV Control Applications
Riser-Rated**Composite Coax,
Pair and Multi-Conductors**
CMR/CMG FT4 Rated**Product Description**

(1) Coax: 20 AWG solid bare copper conductor, gas-injected foam high-density polyethylene insulation, bare copper braid shield (95% coverage), Black PVC jacket.

(1) Pair: 18 AWG stranded (19x30) bare copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), Blue PVC jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

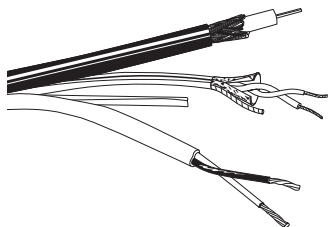
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, PVC insulation, White flame-retardant PVC jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Aluminum/Polyester
Power	Unshielded
Component Jackets	PVC
Overall Jacket	None
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

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



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

Composite (NEC CMR and CEC CMG FT4)

RG-59/U 20 AWG Coax • Cat. 5e 18 AWG Pair • 18 AWG Cond.										
502PTZ new	(1) Coax: RG-59/U 20 AWG (solid) BC Cond.	Gas-injected Foam HDPE, BC Braid Shield (95% coverage)	.227	5.57	.451	11.5	500	152	50.0	22.7
	(1) 1-Pair 18 AWG (19x30) BC Cond.	Polyolefin, Beldfoil Shield (100% coverage)	.219	5.56			1000	305	94.0	42.6
	(1) 2-Cond. 18 AWG Stranded (7x26) BC Cond.	PVC, Unshielded	.171	4.34						

BC = Bare Copper • HDPE = High-density Polyethylene

U.S. Patent 7,049,523

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax: RG-59/U, 20 AWG, BC Braid Shield
Blue	1/P, 18 AWG, Beldfoil Shield
White	2/C, 18 AWG, Unshielded

Pan/Tilt/Zoom Banana Peel® Composite

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



Composite Coax, Pair and Multi-Conductors CMP FT6 Rated

Product Description

(1) Coax: 20 AWG solid bare copper conductors, Foam Perfluoroalkoxy (FPFA) insulation, bare copper braid shield (95% coverage), Black Flamarrest® jacket.

(1) Pair: 18 AWG stranded (19x30) bare copper conductor, FEP insulation, Beldfoil® shield (100% coverage), Blue Flamarrest jacket. Color code: White/Blue Stripe & Blue. Category 5e tested.

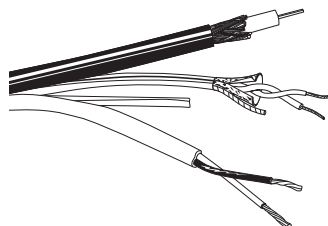
(2) Conductors: 18 AWG stranded (7x26) bare copper conductors, Flamarrest insulation, White Flamarrest jacket. Color code: Black & Red.

Specifications

Conductor	Bare Copper
Application Shielding	
Video	Bare Copper Braid
Control	Aluminum/Polyester
Power	Unshielded
Component Jackets	Flamarrest
Overall Jacket	None
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

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



Part No.	Component Descriptions	Insulation Material & Shielding	Component Nom. OD		Overall Nom. OD		Standard Lengths		Standard Unit Weight	
			Inch	mm	Inch	mm	Ft.	m	Lbs.	kg

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

RG-59/U 20 AWG Coax • Cat. 5e 18 AWG Pair • 18 AWG Cond.										
602PTZ new	(1) Coax: RG-59/U 20 AWG (solid) BC Cond.	FPFA, BC Braid Shield (95% coverage)	.193	4.90	.363	9.2	500 1000	152 305	42.5 79.0	19.3 35.8
	(1) 1-Pair 18 AWG (19x30) BC Cond.	FEP, Beldfoil Shield (100% coverage)	.150	3.81						
	(1) 2-Cond. 18 AWG Stranded (7x26) BC Cond.	Flamarrest, Unshielded	.158	4.01						

BC = Bare Copper • FEP = Fluorinated Ethylene Propylene • FPFA = Foam Perfluoroalkoxy

Individual Cable Jacket Color Coding System

Jacket Color	Cable Type
Black	Coax: RG-59/U, 20 AWG, BC Braid Shield
Blue	1/P, 18 AWG, Beldfoil Shield
White	2/C, 18 AWG, Unshielded

US Patent 7,049,523

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Security Coaxial Cable

CATV and MATV Applications
Commercial or Schlage Systems



Commercial and Schlage Coax

CM FT1 Rated

Product Description

Bare copper conductor, foam polyolefin insulation, foil plus braid shield(s) as indicated, Black PVC jacket. Sequential footage marking every two feet.

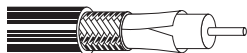
Specifications

Conductor	Bare Copper
Insulation	FPO
Shield	
Coax	Duofoil® + Aluminum Braid(s)
Schlage	Duobond® + Aluminum Braid(s)
Jacket	PVC
Approvals	
NEC	CM
CEC	CM FT1
NEC Articles	820
Nominal Impedance	75Ω
Temperature Rating	75°C

Applications

- CATV
- MATV

Duofoil Shield



Duobond Shield (Schlage Systems)



Quad Shield



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)

Series 6 • RG-6 Type											
5339B5*	18	solid BC	Duofoil + 60% AL braid	.180	4.57	.266	6.76	U-500	U-152	17.5	7.9
								500	152	15.5	7.0
								U-1000	U-305	34.0	15.4
								1000	305	35.0	15.9
5339Q5*	18	solid BC	Quad**	.180	4.57	.298	7.57	U-500	U-152	19.0	8.6
								U-1000	U-305	36.0	16.3
								1000	305	36.0	16.3

Schlage Coax (NEC CM and CEC CM FT1)

Series 6 • RG-6 Type											
5399B5	18	solid BC	Duobond + 60% AL braid	.180	4.50	.270	6.86	U-1000	U-305	28.0	12.7
								1000	305	29.0	13.2

AL = Aluminum • BC = Bare Copper

* Also available in White.

** Quad Shield = Duofoil tape + 60% aluminum braid + Duofoil tape + 40% aluminum braid.

Security Coaxial Cable

Commercial CATV or MATV Applications
Plenum-Rated



Plenum-Rated Coax

CMP FT6 Rated

Product Description

Solid bare copper conductor. Foam FEP insulation. Foil plus aluminum braid shield(s) as indicated. Natural Flamarrest® jacket (except 6139B8 which is White fluorocopolymer). Sequential footage marking every two feet.

Specifications

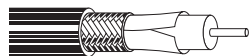
Conductor	Solid BC or BCCC
Insulation	Foam FEP
Shield	Duofoil® + Aluminum Braid(s)
Jacket	Flamarrest†
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	820
Nominal Impedance	75Ω
Temperature Rating	75°C

†6139B8 jacket is White fluorocopolymer.

Applications

- CATV
- MATV

Duofoil + Braid Shield



Quad Shield



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 (NEC CMP and CEC CMP FT6)

Series 59 • RG-59 Type											
6439C8	20	solid BC	Duofoil + 80% AL braid	.135	3.43	.199	5.05	1000	305	20.0	9.1
6439Q8	20	solid BC	Quad*	.135	3.43	.223	5.66	U-1000	U-305	24.0	10.9
Series 6 • RG-6 Type											
633938	18	solid BC	Duofoil + 90% AL braid	.170	4.32	.233	5.92	U-500	U-152	15.0	6.8
								500	152	15.0	6.8
								U-1000	U-305	29.0	13.2
								1000	305	29.0	13.2
6339Q8	18	solid BCCC	Quad*	.170	4.32	.248	6.30	U-1000	U-305	30.0	13.6
								1000	305	32.0	14.5
Series 11 • RG-11 Type											
6139B8	14	solid BC	Duofoil + 60% AL braid	.274	6.96	.348	8.84	1000	305	66.0	30.0

AL = Aluminum • BC = Bare Copper • BCCC = Bare Copper Center Conductor

*Quad Shield: Duofoil tape + 60% copper braid + Duofoil tape + 40% copper braid.

Security Coaxial Cable

Surveillance and CCTV Applications
Limited Combustible



Limited Combustible Coax

FHC 25/50 CMP

Product Description

Bare copper conductor, foam FEP insulation, bare copper braid shield (95% coverage). Black FEP jacket. Sequential footage marking every two feet.

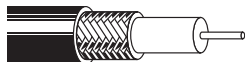
Specifications

Conductor	Bare Copper
Insulation	FFEP
Shield	Bare Copper Braid
Jacket	FEP
Approvals	
NEC	CMP FHC 25/50
NEC Articles	800
Nominal Impedance	75Ω
Temperature Rating	200°C

Applications

- CCTV
- Video Security Coax

Solid Conductor



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

Limited Combustible Coax (CMP FHC 25/50)

RG-59/U Type											
7986LC	20	solid	95%	.135	3.43	.193	4.90	500	152	17.0	7.7
new		BC	BC					1000	305	31.0	14.1
RG-6/U Type											
7985LC	18	solid	95%	.170	4.31	.228	5.79	500	152	22.0	10.0
new		BC	BC					1000	305	44.0	20.0

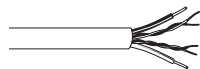
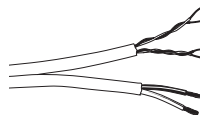
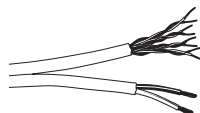
BC = Bare Copper • FEP = Fluorinated Ethylene Propylene

UTP CCTV Surveillance CablesCCTV and PTZ Applications
Unshielded, Riser-Rated**Composite
Unshielded Multi-conductor**
CMR/CMG FT4 Rated**Product Description****Data Pair:** 24 or 23 AWG solid bare copper conductors, unshielded twisted pairs, polyolefin insulation.**Power Conductors:** 16 AWG stranded (19x29) tinned copper conductors, unshielded, polypropylene insulation.**Overall:** White or Black, flame-retardant PVC jacket.**Specifications**

Conductor	
Data Pair	Solid Bare Copper
Power	Stranded Tinned Copper
Shield	Unshielded
Jacket	F-R PVC
Approvals	
NEC	CMR
CEC	CMG FT4
NEC Articles	800
Nominal Impedance	100Ω
Temperature Rating	75°C

Applications:

- UTP-CCTV
- CCTV
- CCTV on UTP
- CCTV Video/Control
- Closed Circuit Television
- Pan/Tilt/Zoom (PTZ) Cameras
- Surveillance
- Video Over Twisted Pairs

5284UE (Round Construction)**5284US (Siamese Construction)****5288US (Siamese Construction)**

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

Unshielded Composite (NEC CMR and CEC CMG FT4)**Category 5e**

5284UE new	2-Pair UTP 23 AWG Solid Bare Copper Cond.	Polyolefin	.040	1.01	.233	5.92	500 1000	152 305	22.5 44.0	10.2 20.0
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	Polypropylene	.077	1.96						
5284US new	2-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.035	.89	.208 x .426	5.28 x 10.82	500 100	152 305	25.5 44.0	11.6 20.0
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	PVC	.080	2.03						
5288US* new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.035	.89	.198 x .424	5.03 x 10.77	500 1000	152 305	27.5 52.0	12.5 23.6
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	PVC	.080	2.03						

UTP = Unshielded Twisted Pair • F-R = Flame-retardant

*Special Construction available upon request.

Color Code Chart (Data Pair)

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

Color Code Chart (Power)

Cond. No.	Color
1	Black
2	Red

UTP CCTV Surveillance Cables

CCTV and PTZ Applications
Unshielded, Plenum-Rated



Composite Unshielded Multi-conductor CMP Rated

Product Description

Data Pair: 24 or 23 AWG solid bare copper conductors, unshielded twisted pairs, FEP insulation.

Power Conductors: 16 AWG stranded (19x29) tinned copper conductors, unshielded, FEP or Flamarrest® insulation.

Overall: White or Black, Flamarrest jacket.

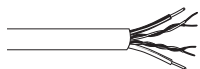
Specifications

Conductor	
Data Pair	Solid Bare Copper
Power	Stranded Tinned Copper
Shield	Unshielded
Jacket	Flamarrest
Approvals	
NEC	CMP
CEC	CMP
NEC Articles	800
Nominal Impedance	100Ω
Temperature Rating	75°C

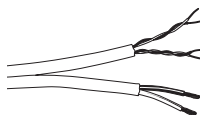
Applications:

- UTP-CCTV
- CCTV
- CCTV on UTP
- CCTV Video/Control
- Closed Circuit Television
- Pan/Tilt/Zoom (PTZ) Cameras
- Surveillance
- Video Over Twisted Pairs

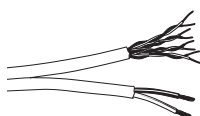
6284UE (Round Construction)



6284US (Siamese Construction)



6288US (Siamese Construction)



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

Unshielded Composite (NEC CMP and CEC CMP)

Category 5e										
6284UE new	2-Pair UTP 23 AWG Solid Bare Copper Cond.	FEP	.041	1.04	.220	5.59	500	152	19.5	8.8
							1000	305	38.0	17.2
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	FEP	.077	1.96						
6284US new	2-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP	.035	.89	.173 x .358	4.39 x 9.09	500	152	26.0	11.8
							1000	305	50.0	22.7
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	Flamarrest	.077	1.96						
6288US new	4-Pair UTP 23 AWG Solid Bare Copper Cond.	FEP	.042	1.07	.222 x .450	5.64 x 11.43	500	152	34.5	15.7
							1000	305	66.0	29.9
	2-Cond. 16 AWG Stranded (19x29) Tinned Copper Cond.	Flamarrest	.077	1.96						

FEP = Fluorinated Ethylene Propylene • UTP = Unshielded Twisted Pair

Color Code Chart (Data Pair)

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

Color Code Chart (Power)

Cond. No.	Color
1	Black
2	Red

UTP CCTV Surveillance Cables

CCTV Fixed and PTZ Applications
Unshielded, Non-Plenum



Unshielded Twisted Pairs

CM FT1 or CMR Rated

Product Description

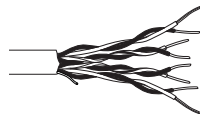
Solid bare copper conductors, unshielded twisted pairs, polyolefin insulation, PVC jacket with rip cord. Sequential footage marking every two feet.

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

Unshielded Twisted Pairs (NEC CM and CEC CM FT1)

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

Unshielded Twisted Pairs (NEC CMR and CEC CMR FT4)

Category 5e										
1583R new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.007	0.18	.197	5.00	U-1000 1000 3000	U-305 305 915	23.0 22.0 63.0	10.4 10.0 28.6
1500R new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	Polyolefin	.007	0.18	.194	5.00	A-1000 1000	A-305 305	27.0 24.0	12.2 10.9
Category 6										
7881A new	4-Pair UTP 23 AWG Solid Bare Copper Cond.	Polyolefin	.010	0.18	.235	5.97	A-1000 1000	A-305 305	33.0 30.0	15.0 13.6

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



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UTP CCTV Surveillance Cables

CCTV Fixed and PTZ Applications
Unshielded, Plenum-Rated



Unshielded Twisted Pairs

CMP FT6 Rated

Product Description

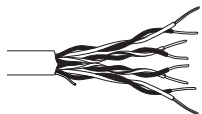
Solid bare copper conductors, unshielded twisted pairs, FEP Teflon® insulation, Flamarrest® jacket with rip cord. Sequential footage marking every two feet.

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

Unshielded Twisted Pairs (NEC CMP and CEC CMP FT6)

Category 5e										
1585A new	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 new	4-Pair UTP 24 AWG Solid Bare Copper Cond.	FEP Teflon	.008	0.20	.195	4.95	A-1000 1000	A-305 305	27.0 24.0	12.2 10.9
Category 6										
7882A new	4-Pair UTP 23 AWG Solid Bare Copper Cond.	FEP Teflon	.009	0.23	.224	5.69	A-1000 1000	A-305 305	34.0 31.0	15.4 14.1

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.



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