



## Description:

Coax: 18 AWG solid bare copper conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), LSZH jacket. Pair: 18 AWG stranded bare copper conductor, polypropylene insulation, LSZH jacket. Coax and pair in Siamese configuration.

## Usage (Overall)

**Suitable Applications:**

Security Composite Communications Cable for CCTV plus Audio or PTZ (Pan/Tilt/Zoom) CCTV Control Applications in Marine Shipboard and Offshore use

## Coax

### Physical Characteristics

#### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BC - Bare Copper	0.040

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	0.180

#### Inner Shield

**Inner Shield Material:**

Type	Inner Shield Material	% Coverage (%)
Braid	BC - Bare Copper	95

### Applicable Specifications and Agency Compliance

#### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Sunlight Resistance: Yes

### Electrical Characteristics

**Nom. Characteristic Impedance:**

Impedance (Ohm)
75

**Nom. Inductance:**

Inductance (µH/ft)
0.097

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
16.300

**Nominal Velocity of Propagation:**

VP (%)
83.000

**Nominal Delay:**

Delay (ns/ft)
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1.220

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
6.400

**Nom. Inner Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
3.100

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.200
5.000	0.450
10.000	0.640
50.000	1.460
100.000	2.100
200.000	3.000
400.000	4.300
700.000	5.800
900.000	6.700
1000.000	7.100

**Max. Operating Voltage - UL:** 300 V RMS

## Twisted Pair

### Physical Characteristics

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	BC - Bare Copper	0.046

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (in.)
PP - Polypropylene	0.059

**Twisted Pair Color Code Chart:**

Number	Color
1	Black and Red

### Applicable Specifications and Agency Compliance

#### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Sunlight Resistance: Yes

### Electrical Characteristics

**Nom. Capacitance Conductor to Conductor:**

**Capacitance (pF/ft)**  
24.000

## Physical Characteristics (Overall)

### Conductor

#### Outer Shield

**Outer Shield Material:**

**Outer Shield Material**  
Unshielded

#### Outer Jacket

**Outer Jacket Material:**

**Outer Jacket Material**

LSZH - Low Smoke Zero Halogen

### Overall Cabling

Overall Nominal Diameter: 0.275 x 0.514 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

Bulk Cable Weight: 66.700 lbs/1000 ft.

Max. Recommended Pulling Tension: 114.000 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG-LS

NEC Articles: 800

CEC/C(UL) Specification: CMG-LS

IEEE Specification: Std. 45 Clause 23

Other Standards: 60092-376 Clause 17, 60092-351, 60754-1, 60754-2, 61034

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 08/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Other Specification: UL444, ABS Type Approval Certificate 05-HS50072D/1-PDA

RG Type: 6/U

#### Flame Test

UL Flame Test: UL1685 FT4 Loading, Limited Smoke

C(UL) Flame Test: FT4, Limited Smoke

IEC Flame Test: 60332-1, 60332-3-22 (Category A)

IEEE Flame Test: 1202

#### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Sunlight Resistance: Yes

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

Voltage

300 V RMS

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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## 1306SB Composite - Video with Power Pair

1306SB 0101000	1,000 FT	76.000 LB	BLACK	C	1 #18 PR, 1 RG-6/U COAX
1306SB 010500	500 FT	37.000 LB	BLACK	C	1 #18 PR, 1 RG-6/U COAX

**Notes:**

C = CRATE REEL PUT-UP.

# 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

<b>Conductor</b>	Bare Copper
<b>Insulation (Non-Plenum)</b>	FPO Coax Pair PVC
<b>Insulation (Plenum)</b>	FEP
<b>Shield (Coax)</b>	Bare Copper Braid
<b>Jacket</b>	PVC Non-Plenum Flamarrest Plenum
<b>Approvals (Non-Plenum)</b>	CM NEC CEC CM FT1
<b>Approvals (LSZH)</b>	CMG-LS NEC CEC CMG-LS FT4 Limited Smoke
<b>Approvals (Plenum)</b>	CMP NEC CEC CMP FT6
<b>NEC Articles</b>	800
<b>Nominal Impedance (Coax)</b>	75Ω
<b>Temperature Rating</b>	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
						.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 <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
						.514	13.06				

### 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
						.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.