



## Description:

22 AWG stranded (7x30) .030" bare copper conductor, plenum, foam FEP insulation, bare copper braid shield (95% coverage), FEP jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	7x30	BC - Bare Copper	.030

### Insulation

#### Insulation Material:

Insulation Material	Dia. (in.)
FFEP - Foam Fluorinated Ethylene Propylene	.135

### Outer Shield

#### Outer Shield Material:

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

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
FEP - Fluorinated Ethylene Propylene

### Overall Cabling

Overall Nominal Diameter: 0.193 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 36 lbs/1000 ft.

Max. Recommended Pulling Tension: 70 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU CE Mark: No

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

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

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

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
RG Type:	59/U

### Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

### Suitability

Suitability - Outdoor:	Yes
Suitability - Burial:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9259

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)
75

#### Nom. Inductance:

Inductance (µH/ft)
.092

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
17.3

#### Nominal Velocity of Propagation:

VP (%)
78

#### Nominal Delay:

Delay (ns/ft)
1.3

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
15

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.6

#### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.3
10	.9
50	2.1
100	3.0
200	4.5
400	6.6
700	9.0
900	10.1
1000	11.0

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89259 010100	100 FT	5.100 LB	BLACK		#22 COAX FEP RG59/U
89259 0101000	1,000 FT	32.000 LB	BLACK	C	#22 COAX FEP RG59/U
89259 010500	500 FT	16.000 LB	BLACK	C	#22 COAX FEP RG59/U

**Notes:**

C = CRATE REEL PUT-UP.

# Standard Analog Video Cable

## RG-59/U Type



Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

**22 AWG Solid Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)**

**Polyethylene Insulation • Black PVC Jacket**

UL AWM	<b>8263</b>	NEC:	U-500	U-152.4	19.5	8.9	22 AWG	.146	3.71	BC Braid	.242	6.15	75	66%	20.5	67.3	1	.6	2.0
Style 1354		CMX:	U-1000	U-304.8	38.0	17.2	(solid)			95% Shield							10	1.1	3.6
(30V 60°C)		CEC:	1000	304.8	39.0	17.7	.023"			Coverage							50	2.4	7.9
		CMX:					BCCS			2.6Ω/M'							100	3.4	11.2
							49.0Ω/M'			8.5Ω/km							200	4.9	16.1
							160.7Ω/km										400	7.0	23.0
																	700	9.7	31.8
																	900	11.1	36.4
																	1000	12.0	39.4

Non-contaminating Black PVC Jacket. Suitable for Indoor and Outdoor applications.

**Foam Polyethylene Insulation • Black PVC Jacket**

75°C	<b>8221</b>	—	U-500	U-152.4	18.5	8.4	22 AWG	.146	3.71	BC Braid	.242	6.15	80	78%	16.3	53.5	1	.4	1.4
			500	152.4	17.0	7.7	(solid)			95% Shield							10	.9	3.0
			U-1000	U-304.8	36.0	16.3	.025"			Coverage							50	2.0	6.6
			1000	304.8	37.0	16.8	BCCS			2.6Ω/M'							100	2.9	9.5
							50.0Ω/M'			8.5Ω/km							200	4.1	13.5
							164.0Ω/km										400	5.9	19.4
																	700	7.8	25.6
																	900	8.8	28.9
																	1000	9.9	32.5

Suitable for Outdoor and Aerial applications when supported by a Messenger Wire.

**22 AWG Solid Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (85% Coverage)**

**Polyethylene Insulation • Black PVC Jacket**

UL AWM	<b>9244</b>	NEC:	U-500	U-152.4	18.0	8.2	22 AWG	.146	3.71	BC Braid	.242	6.15	75	66%	19.4	63.6	1	.6	2.0
Style 1354		CMX:	U-1000	U-304.8	35.0	15.9	(solid)			85% Shield							10	1.1	3.6
(30V 80°C)		CEC:	1000	304.8	36.0	16.3	.025"			Coverage							50	2.4	7.9
		CMX:	3280	1000.0	118.1	53.8	BCCS			4.5Ω/M'							100	3.4	11.2
							50.0Ω/M'			14.8Ω/km							200	4.9	16.1
							164.0Ω/km										400	7.0	23.0
																	700	9.7	31.8
																	900	11.1	36.4
																	1000	12.0	39.4

Suitable for Indoor and Outdoor applications.

**22 AWG Stranded (7x30) .030" Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)**

**Foam Polyethylene Insulation • Black PVC Jacket**

UL AWM	<b>9659</b>	NEC:	U-500	U-152.4	19.0	8.6	22 AWG	.146	3.71	BC Braid	.242	6.15	75	78%	17.3	56.7	1	.3	1.0
Style 1354		CMX:	U-1000	U-304.8	37.0	16.8	(7x30)			95% Shield							10	.9	3.0
(30V 60°C)		CEC:	1000	304.8	38.0	17.2	.030"			Coverage							50	2.1	6.9
VW-1		CMX:					BC			2.6Ω/M'							100	3.0	9.8
							15.0Ω/M'			8.5Ω/km							200	4.5	14.8
							49.2Ω/km										400	6.6	21.7
																	700	8.9	29.2
																	900	10.1	33.1
																	1000	10.9	35.8

Non-contaminating PVC Jacket. For CCTV applications. Suitable for Indoor and Outdoor applications.

UL AWM	<b>9259</b>	NEC:	100	30.5	4.1	1.9	22 AWG	.146	3.71	BC Braid	.241	6.12	75	78%	17.3	56.7	1	.3	1.0
Style 1354		CM	U-500	U-152.4	18.0	8.2	(7x30)			95% Shield							10	.9	3.0
(30V 80°C)		CEC:	500	152.4	16.5	7.5	.030"			Coverage							50	2.1	6.9
		CM	U-1000	U-304.8	35.0	15.9	BC			2.6Ω/M'							100	3.0	9.8
			1000	304.8	37.0	16.8	15.0Ω/M'			8.5Ω/km							200	4.5	14.8
							49.2Ω/km										400	6.6	21.7
																	700	8.9	29.2
																	900	10.1	33.1
																	1000	10.9	35.8

For CCTV applications. Suitable for Indoor and Outdoor applications.

**Plenum • Foam FEP Insulation • Black FEP Jacket**

200°C	<b>89259</b>	NEC:	100†	30.5	5.1	2.3	22 AWG	.135	3.43	BC Braid	.193	4.90	75	78%	17.3	56.7	1	.3	1.0
		CMP	500†	152.4	16.0	7.3	(7x30)			95% Shield							10	.9	3.0
		CEC:	1000†	304.8	32.0	14.5	.030"			Coverage							50	2.1	6.9
		CMP FT6					BC			2.6Ω/M'							100	3.0	9.8
							15.0Ω/M'			8.5Ω/km							200	4.5	14.8
							49.2Ω/km										400	6.6	21.7
																	700	9.0	29.5
																	900	10.1	33.1
																	1000	11.0	36.1

Suitable for Outdoor and Direct Burial applications.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

**Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket**

75°C	<b>82259</b>	NEC:	U-1000	U-304.8	31.0	14.1	22 AWG	.135	3.43	BC Braid	.193	4.90	75	78%	17.3	56.7	1	.3	1.0
		CMP	1000	304.8	30.0	13.6	(7x30)			95% Shield							10	.9	3.0
		CEC:					.030"			Coverage							50	2.1	6.9
		CMP FT6					BC			2.6Ω/M'							100	3.0	9.8
							15.0Ω/M'			8.5Ω/km							200	4.5	14.8
							49.2Ω/km										400	6.6	21.7
																	700	9.0	29.5
																	900	10.1	33.1
																	1000	11.0	36.1

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene