

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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633948 Coax - CCTV Applications



For more Information
please call

1-800-Belden1



General Description:

Surveillance & CCTV Cable, RG6, Plenum-CMP, 18 AWG solid bare copper, foamed FEP core, 95% bare copper braid, Flamarrest® jacket

Usage (Overall)

Suitable Applications:	CCTV
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Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BC - Bare Copper	.040

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FFEP - Foam Fluorinated Ethylene Propylene	.170

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:	0.228 in.
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Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
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UL Temperature Rating:	75°C
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Bulk Cable Weight:	38 lbs/1000 ft.
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Max. Recommended Pulling Tension:	84 lbs.
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Min. Bend Radius/Minor Axis:	2.250 in.
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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
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NEC Articles:	800
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CEC/C(UL) Specification:	CMP
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EU Directive 2011/65/EU (ROHS II):	Yes
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EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	6/U																										
Series Type:	Series 6																										
Flame Test																											
UL Flame Test:	NFPA 262																										
C(UL) Flame Test:	FT6																										
Plenum/Non-Plenum																											
Plenum (Y/N):	Yes																										
Surface Printing (Overall)																											
Electrical Characteristics (Overall)																											
Nom. Characteristic Impedance:																											
Impedance (Ohm)	75																										
Nom. Inductance:																											
Inductance (μ H/ft)	.097																										
Nom. Capacitance Conductor to Shield:																											
Capacitance (pF/ft)	16.3																										
Nominal Velocity of Propagation:																											
VP (%)	83																										
Nominal Delay:																											
Delay (ns/ft)	1.24																										
Nom. Conductor DC Resistance:																											
DCR @ 20°C (Ohm/1000 ft)	6.4																										
Nominal Outer Shield DC Resistance:																											
DCR @ 20°C (Ohm/1000 ft)	2.2																										
Nom. Attenuation:																											
<table border="1"> <thead> <tr> <th>Freq. (MHz)</th> <th>Attenuation (dB/100 ft.)</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.24</td></tr> <tr><td>3</td><td>0.45</td></tr> <tr><td>5</td><td>0.55</td></tr> <tr><td>8</td><td>0.70</td></tr> <tr><td>10</td><td>0.85</td></tr> <tr><td>50</td><td>1.50</td></tr> <tr><td>100</td><td>2.1</td></tr> <tr><td>200</td><td>3.1</td></tr> <tr><td>400</td><td>4.7</td></tr> <tr><td>700</td><td>6.8</td></tr> <tr><td>900</td><td>8.0</td></tr> <tr><td>1000</td><td>8.5</td></tr> </tbody> </table>		Freq. (MHz)	Attenuation (dB/100 ft.)	1	0.24	3	0.45	5	0.55	8	0.70	10	0.85	50	1.50	100	2.1	200	3.1	400	4.7	700	6.8	900	8.0	1000	8.5
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Max. Operating Voltage - UL:																											
Voltage	300 V RMS																										

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
633948 0071000	1,000 FT	42.000 LB	VIOLET	C	#18 FFEP SH PVC
633948 008U1000	1,000 FT	36.000 LB	GRAY		#18 FFEP SH PVC
633948 009U1000	1,000 FT	36.000 LB	WHITE		#18 FFEP SH PVC
633948 010U1000	1,000 FT	36.000 LB	BLACK		#18 FFEP SH PVC
633948 877U1000	1,000 FT	36.000 LB	NATURAL		#18 FFEP SH PVC
633948 877U500	500 FT	18.500 LB	NATURAL		#18 FFEP SH PVC
633948 8771000	1,000 FT	42.000 LB	NATURAL	C	#18 FFEP SH PVC
633948 877500	500 FT	20.500 LB	NATURAL	C	#18 FFEP SH PVC

Notes:

C = CRATE REEL PUT-UP.

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Mouser Electronics

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[633948 010U1000](#) [633948 0041000](#) [633948 0121000](#) [633948 3371000](#) [633948 0071000](#)