Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



643948 Coax - CCTV Applications

For more Information please call

1-800-Belden1



General Description:

EU RoHS Compliance Date (mm/dd/yyyy): EU Directive 2002/96/EC (WEEE):

EU Directive 2003/11/EC (BFR): CA Prop 65 (CJ for Wire & Cable):

MII Order #39 (China RoHS):

Surveillance & CCTV Cable, RG59, Plenum-CMP, 20 AWG solid bare copper, foamed EEP core, 95% bare

copper braid, Flamarrest® jacket	
Usage (Overall)	
Suitable Applications:	ссти
Physical Characteristics (Overall)	
Conductor AWG:	
# CoaxAWGStrandingConductor MaterialDia. (in.)120SolidBC - Bare Copper.032	
Insulation Insulation Material:	
Insulation Trade Name Insulation Material Teflon® FFEP - Foam Fluorinated Ethylene Propyler	Dia. (in.) ne .135
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:	
	0.192 in.
Mechanical Characteristics (Overall)	0.192 in.
	-20°C To +75°C
Mechanical Characteristics (Overall)	
Mechanical Characteristics (Overall) Operating Temperature Range:	-20°C To +75°C
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating:	-20°C To +75°C 75°C
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight:	-20°C To +75°C 75°C 30 lbs/1000 ft.
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension:	-20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in.
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (O Applicable Standards & Environmental Programs	-20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in.
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (O	-20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in.
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (O Applicable Standards & Environmental Programs	-20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in.
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (O Applicable Standards & Environmental Programs NEC/(UL) Specification:	-20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in.
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (O Applicable Standards & Environmental Programs NEC/(UL) Specification: NEC Articles:	-20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. Verall) CMP 800
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (O Applicable Standards & Environmental Programs NEC/(UL) Specification: NEC Articles: CEC/C(UL) Specification:	-20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. Overall) CMP 800 CMP
Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: Applicable Specifications and Agency Compliance (O Applicable Standards & Environmental Programs NEC/(UL) Specification: NEC Articles: CEC/C(UL) Specification: EU Directive 2011/65/EU (ROHS II):	-20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. Verall) CMP 800 CMP Yes

04/01/2005

Yes

Yes

Yes

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	RG Type:	59/U
	Series Type:	Series 59
Fla	me Test	
	UL Flame Test:	NFPA 262
	C(UL) Flame Test:	FT6
Ple	num/Non-Plenum	
	Plenum (Y/N):	Yes

Surface Printing (Overall)

Surface Printing:

"NEW GENERATION® BY BELDEN-E 643948 1C20 75°C E108998 (UL) CMP C(UL) (2 FT, 7 DIGIT SEQUENTIAL NUMBER) FEET"

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft) .097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.1

Nominal Velocity of Propagation:

VP (%) 84

Nominal Delay:

Delay (ns/ft) 1.21

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 10.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 3.300

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.29
3	0.58
5	0.70
8	0.87
10	1.05
50	1.80
100	2.7
200	3.9
400	5.9
700	8.5
900	10.0
1000	10.7

Max. Operating Voltage - UL:

Voltage 300 V RMS

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
643948 010U1000	1,000 FT	30.000 LB	BLACK		#20 FFEP BRD FLRST
643948 010U500	500 FT	16.000 LB	BLACK		#20 FFEP BRD FLRST
643948 0101000	1,000 FT	32.000 LB	BLACK	С	#20 FFEP BRD FLRST
643948 877U1000	1,000 FT	28.000 LB	NATURAL		#20 FFEP BRD FLRST
643948 877U500	500 FT	15.000 LB	NATURAL		#20 FFEP BRD FLRST

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643948 8771000	1.000 FT	29.000 LB	NATURAL	C	#20 FFEP BRD FLRST
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Notes

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-12-2013

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