## **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

### 643948 Coax - CCTV Applications

For more Information please call



1-800-Belden1



### **Description:**

20 AWG bare copper conductor, foam FEP insulation, bare copper braid shield, Flamarrest® jacket, sequential footage marking every two feet.

Usage (Overall)	
Suitable Applications:	CCTV
Physical Characteristics (Overall)	
Conductor AWG:	
# Coax         AWG         Stranding         Conductor Material         Dia. (in           1         20         Solid         BC - Bare Copper         .032	<b>.</b> .)
Insulation Insulation Material:	
Insulation Trade Name Insulation Material	Dia. (in.)
Teflon® FFEP - Foam Fluorinated Ethy	vlene Propylene 135
Outer Shield Outer Shield Material:	
TypeOuter Shield MaterialCoverage (%)BraidBC - Bare Copper95	
Outer Jacket Outer Jacket Material:	
Outer Jacket Trade Name Outer Jacket Material	
Flamarrest® LS PVC - Low Smoke Poly	
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Overall Cable	
	0.193 in.
Overall Cable	
Overall Cable Overall Nominal Diameter:	
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall)	0.193 in.
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range:	0.193 in. -20°C To +75°C
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating:	0.193 in. -20°C To +75°C 75°C
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight:	0.193 in. -20°C To +75°C 75°C 30 lbs/1000 ft.
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension:	0.193 in. -20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in.
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius (Install)/Minor Axis:	0.193 in. -20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. pmpliance (Overall)
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius (Install)/Minor Axis: Applicable Specifications and Agency Co	0.193 in. -20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. pmpliance (Overall)
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius (Install)/Minor Axis: Applicable Specifications and Agency Con Applicable Standards & Environmental Program	0.193 in. -20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. compliance (Overall) rams
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius (Install)/Minor Axis: Applicable Specifications and Agency Co Applicable Standards & Environmental Progr	0.193 in. -20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. cmpliance (Overall) rams CMP
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius (Install)/Minor Axis: Applicable Specifications and Agency Co Applicable Standards & Environmental Progr NEC/(UL) Specification: NEC Articles:	0.193 in. -20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. mpliance (Overall) rams CMP 800
Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend Radius (Install)/Minor Axis: Applicable Specifications and Agency Co Applicable Standards & Environmental Progr NEC/(UL) Specification: NEC Articles: CEC/C(UL) Specification:	0.193 in. -20°C To +75°C 75°C 30 lbs/1000 ft. 52 lbs. 1.750 in. mpliance (Overall) rams CMP 800 CMP

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#### ENGLISH MEASUREMENT VERSION



#### 643948 Coax - CCTV Applications

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
Series Type:	Series 59
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 (µH/ft) .097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.1

Nominal Velocity of Propagation:



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:

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## 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.

#### **Related Documents:**

No related documents are available for this product

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
643948 010U1000	1,000 FT	28.000 LB	BLACK		#20 FPFA BRD FLRST
643948 010U500	500 FT	15.000 LB	BLACK		#20 FPFA BRD FLRST
643948 0101000	1,000 FT	29.000 LB	BLACK	С	#20 FPFA BRD FLRST
643948 877U1000	1,000 FT	28.000 LB	NATURAL		#20 FPFA BRD FLRST
643948 877U500	500 FT	15.000 LB	NATURAL		#20 FFPA BRD FLRST
643948 8771000	1,000 FT	29.000 LB	NATURAL	С	#20 FPFA BRD FLRST

Notes:

C = CRATE REEL PUT-UP.

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