Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

643948 Coax - CCTV Applications

For more Information

1-800-Belden1

please call



General Description:

Surveillance & CCTV Cable, RG59, Plenum-CMP, 20 AWG solid bare copper, foamed FEP core, 95% bare copper braid, Flamarrest® jacket

Usage (Overall)	
Suitable Applications:	CCTV
Physical Characteristics (Overall)	
Conductor	
AWG: # Coax AWG Stranding Conductor Material Dia. (in.)	
1 20 Solid BC - Bare Copper .032	
Insulation	
Insulation Material:	
Insulation Trade Name Insulation Material Teflon® FFEP - Foam Fluorinated Ethylene Propyle	Dia. (in.)
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)	
Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	30 lbs/1000 ft.
Max. Recommended Pulling Tension:	52 lbs.
Min. Bend Radius/Minor Axis:	1.750 in.
Applicable Specifications and Agency Compliance (C)vorall)
Applicable Standards & Environmental Programs	verally
NEC/(UL) Specification:	CMP
NEC Articles:	800
CEC/C(UL) Specification:	СМР
EU Directive 2011/65/EU (ROHS II):	Yes
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):	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

Detailed Specifications & Technical Data





643948 Coax - CCTV Applications

UF Lense Test: DPR 282 CUP Alsens Test: F10 Partem 100 Partem 2000 Cup Alsens Test: Vis	Fame Test: NF2A 22 CUU, Fame Test: F10 Pennum Non - Plenum Pennum Non - Plenum read or Finting Covall) Covall - Covall	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					
Table Test: NP2 A22 CULY Flaw Test: F18 Personance Presonance Personance Presonance Control Flam Test: Yes Under Printing Overall) Enconance Excitical Characteristics (Overall) Enconance (Overall) Excitical Character	Series Taype: Series 100 UP Flame Test: NPTA 202 GUI, Flame Test: Fl0 Pendum (NM): Yes Series Top (Series Control) Series Top (Series Control) None Control (Series Control) Series Top (Series Control) None Control (Series Control (Series Control) Series Top (Series Control) None Control (Series Control (Series Control) Series Top (Series Control) None Control (Series Control (Series Control) Series Top (Series Control) None Control (Series Contro))) Series Control (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 sa register	red trademark of E. I. du	Pont de Nemours and Co.	used under license by Bek	den, Inc.	
Tame Test NFPA 262 CULP, Fine Test: F76 PenumNon-Plenum Trace PenumNon-Plenum Trace Penum (Yu): Yos utrace Printing (Overall) Trace Exercise (Contrace) Trace Image dama (Contrace) <	Series Type: Series 30 U. Flam Test: NPA 502 GUU, Flam Test: F10 Ponum (Nix: Yos Terace Printing (Overall) Interace Printing (Overall) Restances (Overall) Interace Printing (Overall) None. Characteristics (Overall) Interace Printing (Overall) None. Characteristics (Overall) Interace Printing (Overall) None. Characteristics (Overall) Interace (Printing (Overall) None. Characteristics (Overall)	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 Voltage 300 V RMS					
Table Test NFPA 202 CULL Films Test: FT6 Penum (YAN): Yes Unrace Penum Penum (YAN): Penum (YAN): Yes Unrace Penum Penum (YAN): Vera Penum (YAN): Unrace Penum Penum (YAN): Vera Penum (YAN): Unrace Penum Penum (YAN): Vera Penum (YAN):	Series Type: Series 30 Flam: Ext: NPA A22 CUL), Flams Test: PT0 Planum (VM): Yes Cull, Flams Test: Yes Cull Yes Yes Cu	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					
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Image: Plane Test: NFPA 262 CULL, Plane Test: P10 Planum Xon-Planum Panum Xon-Planum Planum Xon-Planum Vos urrace Printing (Overall) Image: Planum Xon-Planum International (International International Internatinternatinteresci International International International Inter	series Type: Series 59 LL Flam Test: NFPA 282 CULJ Flam Test: F10 CutL Flam Test: Yes urace Draining (Overall) Vers Urace Training (Overall) Vers Urace Training (Overall) Vers Urace Training (Overall) Vers Test Test Test Test Test Test Test Test	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					
Image: Section 1 NFPA 282 C(UL) Fines Test: F16 Plenum Y(/h): Yes Urrace Printing (Overal) Image: Section 1 Image: Section 1 Image: Section 1 Section 2 Section 2 Image: Section 2	Series Type: Series 50 IL Flame Test: NFPA 282 CULL Plame Test: P16 Planum Type: Yes Variable Test: Yes	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					
Fame Test: NFPA 282 C(UL) Flame Test: PT6 Perum/Non-Flemm	Series Type: Series 50 UL Flams Tost: NFPA 202 CULU Flams Tost: FIG Ponum (YM): Yes utrace Printing (Overall) Contractoristic (Overall) Certical Characteristic Impedance: NFPA 202 mondance (Overall) Series 70 Some Association (Series 70) Series 70 <t< td=""><td>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</td><td></td><td></td><td></td><td></td><td></td></t<>	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					
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I = Test V. PA 202 V. PA 202 C(UL) Fine Test: F16 Penum Y0.Plenum Penum Y0.Plenum Penum Y0.Plenum Ienum Y0.Plenum Y0.Plenum Ienum Y0.Plenum Y	Series Type: Series 69 Flame Test: NFPA 282 GCUL, Flame Test: FT0 Plenum/Non-Plenum FT0 Plenum (YM): Yes Starface Printing (Overall) Series 700 Starface Printing (Overall) Series 700 Series 700 Series 700	1 0.29 3 0.58 5 0.70 8 0.87 10 1.05 50 1.80 100 2.7 200 3.9					
Image Test: NFPA 262 C(U,) Fame Test: FT6 PonumNon-Ponum Penum (YN): Yes Utrace Printing (Overall) Image Test: Image Test: Use Contractoristics (Overall) Image Test: Image Test: Image Test: Yes Image Test: Image Test: Yes Image Test: Image Test: Image Test: Im	Series Type: Series 50 Flame Test: NFPA 282 C(UL) Flame Test: FT0 C(UL) Flame Test: FT0 Plenum/Non-Pienum Yes Plenum (YN): Yes Control C	1 0.29 3 0.58 5 0.70 8 0.87 10 1.05 50 1.80					
Image Test: NFPA 282 QLU Flame Test: FT6 Ponum/No-Phoum FT6 Ponum/Yon (YN): Yes urface Printing (Overall) Image Test: Isocretical Characteristics (Overall) Image Test: Non. Inductance (Pff) Image Test: Non. Capacitance (Pff) Image Test: Non. Contracteristics: Image Test: VP (%) Image Test: Verminal Velocity of Propagation: Image Test: VP (%) Image Test: Verminal Velocity of Resistance: Image Test: Diff (Notified) Image Test: Solution Test: Image Test: Solo	Series Type: Series 59 Flame Test: NFPA 262 G(LL) Flame Test: FT0 Penum (YN): Yes Interactor Site (Overall) Series (Overall) Series Control (Ov	1 0.29 3 0.58 5 0.70 8 0.87 10 1.05					
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UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum YNon-Plenum Yes Plenum YNN: Yes Urface Printing (Overall) Yes Impedance (Ohm) 5 75	Series Type: Series 59 Flame Test NFPA 262 C(UL) Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes Ves straface Printing (Overall) Ves Identication (GMP) Ves Nom. Characteristics (Overall) Ves Nom. Cha						
Imme Test NFPA 262 (UL, Flame Test: FT6 Plenum/Non-Plenum Plenum (YiN): Plenum (YiN): Yes utrface Printing (Overall) Impedance: Impedance (Ohm) 75 Yem. Capacitance (pf/ft) Inductance: Inductance (pf/ft) Impedance: 037 Yem. Scharzteristics Vom. Capacitance (pf/ft) Impedance: 104 Yem Vominal Velocity of Propagation: Yem VF6 Yem Vominal Delay: Delay (ms/ft) 12.1 PCC @ 20°C (Ohm/1000 ft)	Series Type: Series 59 Flame Test NFPA 262 C(UL) Flame Test: FT6 C(UL) Flame Test: FT6 Plenum (YIN): Yes Utrface Printing (Overall) Yes Series Type: Yes Understeristic (Dyperation) Yes Impedance (Ontri) 75 Yes Yes Nom. Characteristic (Dyperation) Yes Inductance: Impedance: Impedance (Ontri) 75 Yes Yes Nom. Characteristic (Socoration) Yes Nom. Capacitance (pf/f) Yes Yes Yes Nominal Velocity of Propagation: Yes Yes Yes Delay (ns/ft) 21 Nom. Conductor DS Resistance: Delay (ns/ft) Delay (ns/ft) 21 Yes Yes	- · ·					
Lame Test NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes Yes	Series Type: Series 59 Flame Test NFPA 262 C(UL) Flame Test: FT6 Plenum (YiN): Yes Plenum (YiN): Yes Utrface Printing (Overall) Series Type: Series Type: Yes Impedance (Ohm) To the series of th	Iominal Outer Shield DC Resi	stance:				
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Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): Yes surface Printing (Overall) Ves Interface Printing (Overall) Ves Vertical Characteristics (Overall) Ves Nom. Characteristic Impedance: Impedance (Ohm) 75 Vertical Characteristic Impedance: Inductance (pH/ft)	Series Type: Series 59 Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): Yes urface Printing (Overall) Vers Impedance (Ohm) 75 Vom. Inductance: Impedance Cohm) 1/397 Vom. Capacitance Conductor to Shield: Capacitance (pF/ft) 16.1 Nominal Velocity of Propagation: Versite Set Set Set Set Set Set Set Set Set S						
Flame Test NFPA 262 Q(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes utrface Printing (Overall) Ves Infactance istics (Overall) Yes Nom. Characteristics (Overall) Yes Vom. Inductance: Infactance (uH/ft) Inductance (uH/ft) 1097 Nom. Capacitance Conductor to Shield: Capacitance (oF/ft)	Series Type: Series 59 Flame Test NFPA 262 C(UL) Flame Test: FT6 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes Starface Printing (Overall) Yes Starface Printing (Overall) Yes						
Flame Test: NFPA 262 UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes urface Printing (Overall) Videctrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance: Impedance: Company Nom. Inductance: Impedance (Ohm) 75 Nom. Inductance: Inductance: Impedance conductor to Shield: Som. Capacitance Conductor to Shield: Capacitance (pF/ff)	Series Type: Series 59 Flame Test NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum FT6 Plenum (Y/N): Yes Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 75 Nom. Inductance: Inductance: Inductance: Inductance: Nom. Capacitance Conductor to Shield: Capacitance (pF/ft)						
Flame Test VL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes vurface Printing (Overall) Clectrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 75 Nom. Inductance: Inductance	Series Type: Series 59 Flame Test NFPA 262 C(UL) Flame Test: FT6 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes						
Flame Test: NFPA 262 UL Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes urface Printing (Overall) Viectrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 75 Nom. Inductance: Inductance (µH/ft)	Series Type: Series 59 Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes Sturface Printing (Overall) Yes Electrical Characteristics (Overall) Yes Nom. Characteristic Impedance: Impedance (Ohm) 75 Nom. Inductance: Inductance (µH/ft) Yes	-	o Shield:				
Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes cutrace Printing (Overall) Yes vurface Printing (Overall) Yes Nom. Characteristics (Overall) Yes Nom. Characteristic Impedance: Yes Impedance (Ohm) Yes	Series Type: Series 59 Flame Test: VL Flame Test: UL Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes Starface Printing (Overall) Yes Electrical Characteristics (Overall) Yes Nom. Characteristic Impedance: Impedance (Ohm) 75 Yes	.097					
Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes	Series Type: Series 59 Flame Test NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes Starface Printing (Overall) Yes Electrical Characteristics (Overall) Yes Nom. Characteristic Impedance: Impedance (Ohm) 75 Yes						
Flame Test: NFPA 262 UL Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes Uterface Printing (Overall) Clectrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm)	Series Type: Series 59 Flame Test NFPA 262 C(UL) Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes Scurface Printing (Overall) Yes Electrical Characteristics (Overall) Non: Characteristic Impedance: Impedance (Ohm) Yes	lom. Inductance:					
Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes Utface Printing (Overall) Yes Idectrical Characteristics (Overall) Yes	Series Type: Series 59 Flame Test VL Flame Test: UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Plenum (Y/N): Yes Starface Printing (Overall) Yes Electrical Characteristics (Overall) Yes						
Flame Test: NFPA 262 UL Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes sturface Printing (Overall) Hectrical Characteristics (Overall)	Series Type: Series 59 Flame Test NFPA 262 UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes Sturface Printing (Overall) Yes		ə:				
Flame Test UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes	Series Type: Series 59 Flame Test VL Flame Test: UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes						
Flame Test UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Plenum (Y/N): Yes	Series Type: Series 59 Flame Test VL Flame Test: UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum Yes	urface Printing (Overa	l i)				
Flame Test UL Flame Test: NFPA 262 C(UL) Flame Test: FT6 Plenum/Non-Plenum	Series Type: Series 59 Flame Test VL Flame Test: NFPA 262 C(UL) Flame Test: FT6						
Flame Test: NFPA 262 C(UL) Flame Test: FT6	Series Type: Series 59 Flame Test: NFPA 262 C(UL) Flame Test: FT6			Vec			
Flame Test: NFPA 262	Series Type: Series 59 Flame Test: NFPA 262	. ,		FT6			
Flame Test	Series Type: Series 59 Flame Test	C(UL) Flame Test:			262		
**	Series Type: Series 59						
	RG Type: 59/U	UL Flame Test:		Series			
KG TYPE: SHOW		Flame Test UL Flame Test:		0	59		

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
643948 8771000	1,000 FT	29.000 LB	NATURAL	С	#20 FFEP BRD FLRST

Notes: C = CRATE REEL PUT-UP.

Detailed Specifications & Technical Data





643948 Coax - CCTV Applications

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

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