ENGLISH MEASUREMENT VERSION



7912A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information please call

1-800-Belden1



General Description:

Siamese Composite - (1)Cat 5 4-pair, 24 AWG unshielded plus (1)Series 6 Coax with Duobond® IV Quad Shield, polyolefin insulation on the pairs; Gas-injected FPE insulation on the coaxes, overall F-R PVC jacket.

Usage (Overall) Suitable Applications: HDTV, DBS, CATV, CCTV, Multimedia, Voice, Video, Data, High Speed Internet, Networked Computing, Distributed Video, Distributed Audio, Security Monitoring, Energy Monitoring Coax **Physical Characteristics** Conductor AWG: # Coax AWG Stranding Conductor Material Dia. (in.) BC - Bare Copper 0.040 Insulation Insulation Material: Dia. (in.) Gas-injected FHDPE - Foam High Density Polyethylene | 0.180 **Inner Shield** Inner Shield Material: Layer # Inner Shield Trade Name Type Inner Shield Material % Coverage (%)

Tape Bonded Aluminum Foil-Polyester Tape-Aluminum Foil 100

Tape Aluminum Foil-Polyester Tape-Aluminum Foil

Braid AL - Aluminum

Braid AL - Aluminum

Applicable Specifications and Agency Compli	ance
Applicable Standards & Environmental Prog	rame

Bonded Duofoil®

Duofoil®

EU CE Mark:	Yes
Series Type:	Series 6

60

100

40

Electrical Characteristics

Nom. Characteristic Impedance:



Nom. Inductance:

3



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:

VP (%) 83.000

Nominal Delay:

Delay (ns/ft) 1.200

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 6.400

Nom. Inner Shield DC Resistance:



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Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	1000.000	20.000
1000.000	2250.000	15.000
2250.000	3000.000	10.000

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5.000	0.500
55.000	1.400
211.000	2.600
500.000	4.100
750.000	5.100
862.000	5.500
1000.000	6.000
1450.000	7.800
1800.000	8.600
2250.000	9.800
3000.000	11.300

Max. Attenuation:

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	Freq. (MHz)	Attenuation (dB/100 ft.)		
	5.000	0.670		
	55.000	1.600		
	211.000	2.870		
	500.000	4.480		
	750.000	5.590		
	862.000	5.980		
	1000.000	6.540		
	1450.000	8.000		
	1800.000	8.800		
	2250.000	10.000		
	3000.000	11.900		

Max. Operating Voltage - UL:

350 V RMS

Shield Effectiveness:

Start Frequency (MHz)	Stop Frequency (MHz)	Shield Effectiveness (dB)
5.000	50.000	105.000
50.000	1000.000	110.000

Twisted Pair

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
4	24	Solid	BC - Bare Copper	0.020

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PO - Polyolefin	0.035

Twisted Pair Color Code Chart:

Number	Color	
1	White/Blue Stripe and Blue	
2	White/Orange Stripe and Orange	
3	White/Green Stripe and Green	
4	White/Brown Stripe and Brown	

Inner Jacket

Inner Jacket Color Code Chart:

Number	Color
1	White/Blue Stripe and Blue
2	White/Orange Stripe and Orange
3	White/Green Stripe and Green
4	White/Brown Stripe and Brown

Electrical Characteristics

Nom. Mutual Capacitance:



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Nominal Velocity of Propagation:

VP (%) 70.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 9.380

Max. Operating Voltage - UL:

Voltage 300 V RMS

Other Electrical Characteristic 1:

Third party verified to TIA/EIA-568-B.2, Category 5.

Premise Cable Electricals:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. SRL (dB)	Fitted Imp. (Ohms)
1.0	2.000	62	N/A	23	100 +/- 15%
4.0	4.100	53	N/A	23	100 +/- 15%
8.0	5.800	48	N/A	23	100 +/- 15%
10.0	6.500	47	N/A	23	100 +/- 15%
16.0	8.200	44	N/A	23	100 +/- 15%
20.0	9.300	42	N/A	23	100 +/- 15%
25.0	10.400	41	N/A	22	100 +/- 15%
31.25	11.700	39	N/A	21	100 +/- 15%
62.5	17.500	35	N/A	18	100 +/- 15%
100	22.000	32	N/A	16	100 +/- 15%

Physical Characteristics (Overall)

Outer Shield

Outer Shield Material:

Type Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
F-R PVC - Flame Retardant Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 0.297 x 0.543 in.

Mechanical Characteristics (Overall)

 Operating Temperature Range:
 -20°C To +75°C

 Bulk Cable Weight:
 55 lbs/1000 ft.

 Max. Recommended Pulling Tension:
 129 lbs.

 Min. Bend Radius/Minor Axis:
 3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMG EU Directive 2011/65/EU (ROHS II): Yes EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 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): Other Specification: NEMA WC-63.1, Category 5 Series Type: Series 6

Flame Test

UL Flame Test: UL1666 Vertical Shaft

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	CSA Flame Test:	FT4			
Ple	Plenum/Non-Plenum				
	Plenum (Y/N):	No			
Notes (Overall)					
	Notes: Overall jacket sequentially marked.				

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc	

Revision Number: 0 Revision Date: 08-05-2013

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