

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



For more Information
please call

1-800-Belden1

**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.)
1	18	Solid	BC - Bare Copper	0.040

Insulation**Insulation Material:**

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 (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60
3	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
4		Braid	AL - Aluminum	40

Applicable Specifications and Agency Compliance**Applicable Standards & Environmental Programs**

EU CE Mark: Yes

Series Type: Series 6

Electrical Characteristics**Nom. Characteristic Impedance:**

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)
0.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.200

Nominal Velocity of Propagation:

VP (%)
83.000

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

Nominal Delay:

Delay (ns/ft)
1.200

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.400

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.800

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:

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.)

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

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:

Capacitance (pF/ft)
15.000

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.

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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	57.000 lbs/1000 ft.
Max. Recommended Pulling Tension:	129.000 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.000 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
Other Standards:	ISO/IEC 11801, Category 5
EU Directive 2000/53/EC (ELV):	Yes
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):	Yes
Telecommunications Standards:	ANSI/TIA/EIA-568-B.2, Category 5
Other Specification:	NEMA WC-63.1, Category 5
Series Type:	Series 6

Flame Test

UL Flame Test:	UL1666 Riser
C(UL) Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Notes (Overall)

Notes: Overall jacket sequentially marked.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7912A 337500	500 FT	37.500 LB	GREEN, LIGHT	C	COMPOSITE CABLE FRPVC PARA

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 0 Revision Date: 02-11-2008

© 2012 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

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

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.