

7914A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information
please call

1-800-Belden1



General Description:

Composite - (2)Cat 5 4-pair, 24 AWG unshielded plus (2)Series 6 Coax with Duobond® IV Quad Shield plus (1)2-Fiber LANLite®, polyolefin insulation on the pairs; Gas-injected FPE insulation on the coaxes, F-R PVC jackets, 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.)
2	18	Solid	BC - Bare Copper	0.040

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.180

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
2		Braid	AL - Aluminum	60.000
3		Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
4		Braid	AL - Aluminum	40.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.298

Outer Jacket Color Code Chart:

Number	Color
1	Black
2	White

Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

EU CE Mark: Yes

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

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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:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
8	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

Outer Jacket

Outer Jacket Material:

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Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.195

Outer Jacket Color Code Chart:

Number	Color
1	Blue
2	Green

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. SRL (dB)	Fitted Imp. (Ohms)
1.0	2.000	62	23	100 ± 15%
4.0	4.100	53	23	100 ± 15%
8.0	5.800	48	23	100 ± 15%
10.0	6.500	47	23	100 ± 15%
16.0	8.200	44	23	100 ± 15%
20.0	9.300	42	23	100 ± 15%
25.0	10.400	41	22	100 ± 15%
31.25	11.700	39	21	100 ± 15%
62.5	17.000	35	18	100 ± 15%
100	22.000	32	16	100 ± 15%

Fiber

Physical Characteristics

Fiber Type: 62.5/125/900 Micron

Number of Fibers: 2

Fiber Color Code Chart:

Number	Color
1	Blue
2	Orange

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.175

Outer Jacket Color: Orange

Physical Characteristics (Overall)

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

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Overall Cable

Overall Nominal Diameter: 0.660 in.

Mechanical Characteristics (Overall)

Bulk Cable Weight: 164 lbs/1000 ft.

Max. Recommended Pulling Tension: 278 lbs.

Min. Bend Radius/Minor Axis: 6.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR, OF

CEC/C(UL) Specification: CMG, OF

EU Directive 2011/65/EU (ROHS II): Yes

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): 07/01/2005

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

Telecommunications Standards: ANSI/TIA/EIA-568B.2, Category 5

Other Specification: NEMA WC-63.1, Category 5

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. Shielding effectiveness determined from screening attenuation measurement when tested in accordance with IEC 61196-1.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7914A 3371000	1,000 FT	169.000 LB	GREEN, LIGHT	C	2#18COAX+8PR#24PPVC+2MMFBRPVC
7914A 337500	500 FT	88.000 LB	GREEN, LIGHT	C	2#18COAX+8PR#24PPVC+2MMFBRPVC

Notes:

C = CRATE REEL PUT-UP.

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