

## 7913A 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, 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

**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

**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

Series Type: Series 6

**Electrical Characteristics****Nom. Characteristic Impedance:**

Impedance (Ohm)
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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

## 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:

300 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

## 7913A Composite - Composite Data, Audio, Video, Security and Control Cable

## 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:

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

## Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
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	17.000	35	N/A	18	100 +/- 15%
100	22.000	32	N/A	16	100 +/- 15%

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## Physical Characteristics (Overall)

## Outer Shield

Outer Shield Material:

Outer Shield Material

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: 0.660 in.

## Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 144 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 &amp; 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): 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 &amp; Cable): Yes

MII Order #39 (China RoHS): Yes

Other Specification: NEMA WC-63.1, Category 5

## Flame Test

UL Flame Test: UL1666 Riser

CSA 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
7913A 3371000	1,000 FT	157.000 LB	GREEN, LIGHT	C	2 #18 COAX+8PR#24 PP FRPVC PVC
7913A 337500	500 FT	82.000 LB	GREEN, LIGHT	C	2 #18 COAX+8PR#24 PP FRPVC PVC

## Notes:

C = CRATE REEL PUT-UP.

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