

## 7914S Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information  
please call

1-800-Belden1



### General Description:

Banana Peel® Composite - (2) Cat 5e 4-pair 24 AWG unshielded plus (2) Series 6 Coax w/Duobond® IV Quad shield plus (1) 2-Fiber LANLite®, polyolefin insulation on the pairs; Gas-injected FPE insulation on the coax, F-R PVC jackets, No overall jacket.

### Usage (Overall)

#### Suitable Applications:

HDTV, DBS, CATV, CCTV, Multimedia, Voice, 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 FPE - Foam 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.)
0.030

###### Outer Jacket Color Code Chart:

Number	Color
1	Black
2	White

### Applicable Specifications and Agency Compliance

#### Applicable Standards & Environmental Programs

##### 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

# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

### 7914S 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

#### Other Electrical Characteristic 1:

Coax Sweep tested to 3.0 GHz.

## 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

# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

### 7914S Composite - Composite Data, Audio, Video, Security and Control Cable

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

##### Outer Jacket Diameter:

Nom. Dia. (in.)
0.194

##### Outer Jacket Ripcord:

Yes

##### 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 5e.

##### Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1.0	2.000	62.3	60	20.000
4.0	4.100	53.3	49	23.000
8.0	5.800	48.8	43	24.500
10.0	6.500	47.3	41	25.000
16.0	8.200	44.3	36	25.000
20.0	9.300	42.8	34	25.000
25.0	10.400	41.3	31	24.300
31.25	11.700	39.9	28	23.600
62.5	17.000	35.4	19	21.500
100	22.000	32.3	11	20.100

##### Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Min. PSELFEXT (dB)
1.0	100 ± 15%	60.8
4.0	100 ± 15%	48.7
8.0	100 ± 15%	42.7
10.0	100 ± 15%	40.8
16.0	100 ± 15%	36.7
20.0	100 ± 15%	34.7
25.0	100 ± 15%	32.8
31.25	100 ± 15%	30.9
62.5	100 ± 15%	24.8
100	100 ± 15%	20.8

#### 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
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# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

### 7914S Composite - Composite Data, Audio, Video, Security and Control Cable

PVC - Polyvinyl Chloride

#### Outer Jacket Diameter:

Nom. Dia. (in.)
0.175

#### Outer Jacket Color:

Orange

### Physical Characteristics (Overall)

#### Conductor

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
Unjacketed

#### Overall Cable

##### Overall Nominal Diameter:

0.625 in.

### Mechanical Characteristics (Overall)

#### Bulk Cable Weight:

134 lbs/1000 ft.

#### Max. Recommended Pulling Tension:

278 lbs.

#### Min. Bend Radius/Minor Axis:

6.250 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

##### 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):

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

##### Other Specification:

NEMA WC-63.1, Category 5e

#### Applicable Patents:

##### Country

[www.belden.com/p](http://www.belden.com/p)

#### Flame Test

##### UL Flame Test:

UL1666 Riser

##### CSA Flame Test:

FT4

#### Plenum/Non-Plenum

##### Plenum (Y/N):

No

### Notes (Overall)

Notes: 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
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