METRIC MEASUREMENT VERSION



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



For more Information please call

1-800-Belden1



### **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 Spped Internet, Networked Computing, Distributed Video, Distributed Audio, Security Monitoring, Energy Monitoring

#### Coax

#### **Physical Characteristics**

#### Conductor

AWG:

ı	# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
	2	18	Solid	BC - Bare Copper	1.016

#### Insulation

### Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	4.572

#### **Outer Shield**

#### **Outer Shield Material:**

Layer #	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Таре	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. (mm)** 0.757

### **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:



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#### Nom. Inductance:

Inductance (µH/m) 0.318

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 53.152

**Nominal Velocity of Propagation:** 

**VP (%)** 83.000

**Nominal Delay:** 

**Delay (ns/m)** 3.937

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 20.998

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km) 15.749

**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/100m)
5.000	1.641
55.000	4.593
211.000	8.531
500.000	13.452
750.000	16.733
862.000	18.046
1000.000	19.686
1450.000	25.592
1800.000	28.217
2250.000	32.154
3000.000	37.075

#### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5.000	2.198
55.000	5.250
211.000	9.416
500.000	14.699
750.000	18.341
862.000	19.620
1000.000	21.458
1450.000	26.248
1800.000	28.873
2250.000	32.810
3000.000	39.044

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

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Other Electrical Characteristic 1: Coax Sweep tested to 3.0 GHz.

#### **Twisted Pair**

#### **Physical Characteristics**

### Conductor

AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (mm)
8	24	Solid	BC - Bare Copper	0.508

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PO - Polyolefin	0.889

#### **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 Diameter:**

Nom.	Dia.	(mm)
4.928		

**Outer Jacket Ripcord:** 

Yes

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

Number	Color
1	Blue
2	Green

#### **Electrical Characteristics**

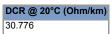
Nom. Mutual Capacitance:



### Nominal Velocity of Propagation:



#### Nom. Conductor DC Resistance:



#### 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

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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
PVC - Polyvinyl Chloride

**Outer Jacket Diameter:** 

Nom. Dia. (mm) 4.445

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 Cabling**

Overall Nominal Diameter: 15.875 mm

## **Mechanical Characteristics (Overall)**

Bulk Cable Weight:	205.372 Kg/Km		
Max. Recommended Pulling Tension:	1236.600 N		
Min. Bend Radius (Install)/Minor Axis:	107.950 mm		

### **Applicable Specifications and Agency Compliance (Overall)**

**Applicable Standards & Environmental Programs** 

NEC/(UL) Specification: CMR, OF

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

CEC/C(UL) Specification:		CMG, OF			
	Other Standards:	ISO/IEC 11801, Category 5			
	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 Yes			
	MII Order #39 (China RoHS):				
	Telecommunications Standards:	ANSI/TIA/EIA-568-B.2, Category 5e			
	Other Specification:	NEMA WC-63.1, Category 5e			
Fla	ame Test				
	UL Flame Test:	UL1666 Riser			
	C(UL) Flame Test:	FT4			
Ple	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. Banana Peel® US PATENT 7049523.

#### **Related Documents:**

No related documents are available for this product

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7914S 000X	305 MT	48.988 KG	NONE	С	2 RG6 QUAD + 2 CAT 5E + 2MMF
7914S 0001000	305 MT	67.132 KG	NONE	С	2 RG6 QUAD + 2 CAT 5E + 2MMF
7914S 000500	152 MT	34.927 KG	NONE	С	2 RG6 QUAD + 2 CAT 5E + 2MMF

#### Notes:

C = CRATE REEL PUT-UP.

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