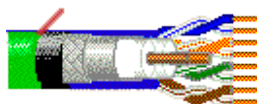


## 7917A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information  
please call

1-800-Belden1

**General Description:**

Siamese Composite - (1)Cat 5 4-pair, 24 AWG unshielded plus (1)Series 6 Coax with Duobond® II Shield. Polyolefin Insulation on the pairs; Gas-injected FHDPE 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. (mm)
1	18	Solid	BC - Bare Copper	1.016

**Insulation****Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	4.521

**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	57

**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/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:**

## METRIC MEASUREMENT VERSION

## 7917A Composite - Composite Data, Audio, Video, Security and Control Cable

## DCR @ 20°C (Ohm/km)

20.998

## Nom. Inner Shield DC Resistance:

## DCR @ 20°C (Ohm/km)

29.529

## Typical Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Typical SRL (dB)
5.000	2250.000	15.000

## 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	25.920
1800.000	27.560
2250.000	33.138

## 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	27.232
1800.000	30.513
2250.000	34.779

## Other Electrical Characteristic 1:

Coax sweep tested to 2.25 GHz.

## Twisted Pair

## Physical Characteristics

## Conductor

## AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
4	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

## Electrical Characteristics

## Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

## Max. Mutual Capacitance:

## 7917A Composite - Composite Data, Audio, Video, Security and Control Cable

## Capacitance (pF/m)

55.777

## 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%

## Physical Characteristics (Overall)

## Conductor

## 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:

6.934 x 12.802 mm

## Mechanical Characteristics (Overall)

## Operating Temperature Range:

-20°C To +75°C

## Bulk Cable Weight:

67.267 Kg/Km

## Max. Recommended Pulling Tension:

409.234 N

## Min. Bend Radius/Minor Axis:

69.850 mm

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

## NEC/(UL) Specification:

CM

## CEC/C(UL) Specification:

CM

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

Yes

## Other Standards:

ISO/IEC 11801, Category 5

## EU Directive 2000/53/EC (ELV):

Yes

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<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	03/18/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>Telecommunications Standards:</b>	ANSI/TIA/EIA-568-B.2, Category 5
<b>Other Specification:</b>	NEMA WC-63.1, Category 5

**Flame Test**

<b>UL Flame Test:</b>	UL1581 Vertical Tray
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**Plenum/Non-Plenum**

<b>Plenum (Y/N):</b>	No
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**Notes (Overall)**

**Notes:** Overall jacket sequentially marked.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7917A 3371000	1,000 FT	42.000 LB	GREEN, LIGHT	C	4PR#24PP+#18PE COAX FRPVC PARA

**Notes:**

C = CRATE REEL PUT-UP.

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