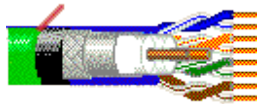


7917A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information
please call

1-800-Belden1



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. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 18 | Solid | BC - Bare Copper | 0.040 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.178 |

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/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:

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DCR @ 20°C (Ohm/1000 ft)

| |
|-------|
| 6.400 |
|-------|

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

| |
|-------|
| 9.000 |
|-------|

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/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 | 7.900 |
| 1800.000 | 8.400 |
| 2250.000 | 10.100 |

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 | 8.300 |
| 1800.000 | 9.300 |
| 2250.000 | 10.600 |

Other Electrical Characteristic 1:

Coax sweep tested to 2.25 GHz.

Twisted Pair

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 4 | 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 |

Electrical Characteristics

Nom. Mutual Capacitance:

| Capacitance (pF/ft) |
|---------------------|
| 15.000 |

Max. Mutual Capacitance:

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Capacitance (pF/ft)

17.000

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% |

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: 0.273 x 0.504 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 45.200 lbs/1000 ft.

Max. Recommended Pulling Tension: 92.000 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

Other Standards: ISO/IEC 11801, Category 5

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

EU Directive 2002/95/EC (RoHS): Yes

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| | |
|--|----------------------------------|
| EU RoHS Compliance Date (mm/dd/yyyy): | 03/18/2005 |
| 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-568-B.2, Category 5 |
| Other Specification: | NEMA WC-63.1, Category 5 |

Flame Test

| | |
|-----------------------|----------------------|
| UL Flame Test: | UL1581 Vertical Tray |
|-----------------------|----------------------|

Plenum/Non-Plenum

| | |
|----------------------|----|
| Plenum (Y/N): | No |
|----------------------|----|

Notes (Overall)

Notes: Overall jacket sequentially marked.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------------|-------|--------------------------------|
| 7917A 3371000 | 1,000 FT | 55.000 LB | GREEN, LIGHT | C | 4PR#24PP+#18PE COAX FRPVC PARA |

Notes:

C = CRATE REEL PUT-UP.

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