METRIC MEASUREMENT VERSION



7913S 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 with Duobond® IV Quad shield, 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, 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) |
|--------|-----|-----------|--------------------|-----------|
| 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 | 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 | Duofoil® | Таре | Aluminum Foil-Polyester Tape-Aluminum Foil | 100.000 |
| 4 | | Braid | AL - Aluminum | 40.000 |

Outer Jacket

Outer Jacket Material:



Outer Jacket Diameter:



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:



Nom. Inductance:

Inductance (µH/m) 0.318

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 53.152

Nominal Velocity of Propagation:

VP (%) 83.000

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Nominal Delay:

Delay (ns/m) 3.937

Nom. Conductor DC Resistance:



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:

150 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. (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 |

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Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord:

Yes

Outer Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Blue |
| 2 | Green |

Electrical Characteristics

Nom. Mutual Capacitance:

Capacitance (pF/m) 49.215

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 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 |

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: 15.240 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -10°C To +75°C

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| Separation Temperature Range: | 0°C To +75°C | | |
|---|---------------|--|--|
| Bulk Cable Weight: | 178.584 Kg/Km | | |
| Max. Recommended Pulling Tension: | 1236.600 N | | |
| Min. Bend Radius/Minor Axis: | 107.950 mm | | |
| plicable Specifications and Agency Compliance (Overall) | | | |

Ap

Applicable Standards & Environmental Programs

| NEC/(UL) Specification: | CMR |
|---------------------------------------|---------------------------|
| CEC/C(UL) Specification: | CMG |
| 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): | 01/01/2004 |
| 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

Flame Test

UL Flame Test: UL1666 Riser **CSA Flame Test:**

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 # | Putun | Ship Weight | Color | Notes | Itom Docc | |
|----------|-------|-------------|-------|-------|-------------|--|
| ILCIII # | Futup | Ship Weight | COIOI | Notes | ILEIII DESC | |

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