

## 7950A 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 (4)16 AWG stranded (65x34) bare copper conductors, polyolefin insulation on the pairs; PVC insulation on the conductors, overall F-R PVC jacket. Jacket sequentially marked.

### 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     | 0.914     |

###### 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 Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

###### Outer Jacket Diameter:

| Nom. Dia. (mm) |
|----------------|
| 4.953          |

###### Outer Jacket Ripcord:

Yes

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

| Color |
|-------|
| Blue  |

### Electrical Characteristics

#### 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%          |

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## Multi Conductor

## Physical Characteristics

## Conductor

## AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------------|-----|-----------|--------------------|-----------|
| 4            | 16  | 65x34     | BC - Bare Copper   | 1.499     |

## Insulation

## Insulation Material:

| Insulation Material      | Dia. (mm) |
|--------------------------|-----------|
| PVC - Polyvinyl Chloride | 2.007     |

## Insulation Color Code Chart:

| Number | Color |
|--------|-------|
| 1      | Red   |
| 2      | White |
| 3      | Green |
| 4      | Black |

## Electrical Characteristics

## Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/m) |
|--------------------|
| 49.215             |

## Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 70.000 |

## Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 30.776              |

## Max. Operating Voltage - UL:

| Voltage   |
|-----------|
| 300 V RMS |

## Max. Recommended Current:

| Current                     |
|-----------------------------|
| 5 Amps per conductor @ 25°C |

## Other Electrical Characteristic 1:

Third party verified to TIA/EIA-568-B.2, Category 5

## Physical Characteristics (Overall)

## Conductor

## Outer Shield

## Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

## Outer Jacket

## Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

## Outer Jacket Ripcord:

Yes

## Overall Cable

## Overall Nominal Diameter:

9.906 mm

## Mechanical Characteristics (Overall)

## Operating Temperature Range:

-20°C To +75°C

## Bulk Cable Weight:

130.962 Kg/Km

METRIC MEASUREMENT VERSION

## 7950A Composite - Composite Data, Audio, Video, Security and Control Cable

|                                   |            |
|-----------------------------------|------------|
| Max. Recommended Pulling Tension: | 711.712 N  |
| Min. Bend Radius/Minor Axis:      | 101.600 mm |

### Applicable Specifications and Agency Compliance (Overall)

#### 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): | 04/01/2005               |
| 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 5 |

#### Flame Test

|                 |                       |
|-----------------|-----------------------|
| UL Flame Test:  | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4                   |

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

### Notes (Overall)

**Notes:** Overall jacket sequentially marked.

### Put Ups and Colors:

| Item #       | Putup  | Ship Weight | Color        | Notes | Item Desc           |
|--------------|--------|-------------|--------------|-------|---------------------|
| 7950A 337500 | 500 FT | 54.000 LB   | GREEN, LIGHT | C     | COMPOSITE CABLE PVC |

**Notes:**  
C = CRATE REEL PUT-UP.

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