

7949A Composite - Composite Data, Audio, Video, Security and Control Cable

For more Information
please call

1-800-Belden1

**Description:**

Composite - (1) Cat 5e 4-bonded-pair UTP 24 AWG, (4)16 AWG stranded (65x34) bare copper conductors, polyolefin insulation (pairs), PVC insulation (conductors), overall F-R PVC jacket. Jacket sequentially marked.

Usage (Overall)**Suitable Applications:**

Keypads, Control Panels, Touch Panel Controls, Home Theater, A/V Equipment, Projectors, Screens, Window Treatments, Lighting, Security, Security Cameras, Home Automation, Energy Control

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 0.038 |

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. (in.) |
|-----------------|
| 0.200 |

Outer Jacket Ripcord:

Yes

Outer Jacket Color Code Chart:

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

Electrical Characteristics**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 |

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| | | | | |
|-------|--------|------|----|--------|
| 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 |

Multi Conductor**Physical Characteristics****Conductor****AWG:**

| # Conductors | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------------|-----|-----------|--------------------|------------|
| 4 | 16 | 65x34 | BC - Bare Copper | 0.059 |

Insulation**Insulation Material:**

| Insulation Material | Dia. (in.) |
|--------------------------|------------|
| PVC - Polyvinyl Chloride | 0.079 |

Insulation Color Code Chart:

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

Electrical Characteristics**Nom. Capacitance Conductor to Conductor:**

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

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 |

Max. Recommended Current:

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

Other Electrical Characteristic 1:

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

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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: 0.355 in.

Mechanical Characteristics (Overall)

Bulk Cable Weight: 100 lbs/1000 ft.

Max. Recommended Pulling Tension: 160 lbs.

Min. Bend Radius (Install)/Minor Axis: 4.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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): 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

Telecommunications Standards: ANSI/TIA/EIA-568-B.2, Category 5e

Other Specification: NEMA WC-63.1, Category 5e

Flame Test

UL Flame Test: UL1666 Riser

C(UL) 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.

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Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|------------|-------|---------------------|
| 7949A N3U1000 | 1,000 FT | 99.000 LB | GREEN, MIL | C | COMPOSITE CABLE PVC |
| 7949A N3U500 | 500 FT | 54.500 LB | GREEN, MIL | C | COMPOSITE CABLE PVC |

Notes:

C = CRATE REEL PUT-UP.

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