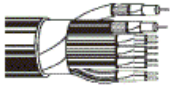


1347A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information
please call

1-800-Belden1



General Description:

Coax (2 - 1505A Type) 20 AWG BC, GIFPE insulation, Duofoil® plus TC braid (95% cv.), PVC inner jackets. Pairs (4 - 9451 Type): 22 AWG TC, PP insul., drain, Beldfoil® shield bonded to pair jacket. Color coded jackets. Cabled. Overall flex. PVC jacket.

Usage (Overall)

Suitable Applications: Electronic News Gathering (ENG), Electronic Field Production (EFP), Analog Audio + Digital Video Composite Applications, 2V + 4A

Coax

Physical Characteristics

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 2 | 20 | Solid | BC - Bare Copper | 0.864 |

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|--------------------------------------|-----------|
| Gas-injected FPE - Foam Polyethylene | 3.683 |

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|-------|--|--------------|
| Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100.000 |
| | Braid | TC - Tinned Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

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

Outer Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Black |
| 2 | White |

Overall Diameter

Overall Nominal Diameter: 5.918 mm

Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

Series Type: 59/U

Electrical Characteristics

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 75 |

Nom. Inductance:

| Inductance (µH/m) |
|-------------------|
| 0.351 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
| 53.480 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 82.000 |

Nominal Delay:

| Delay (ns/m) |
|--------------|
|--------------|

METRIC MEASUREMENT VERSION

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4.003

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 32.810 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 12.468 |

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000 | 850.000 | 20.000 |
| 850.000 | 4500.000 | 15.000 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1.000 | 0.984 |
| 3.600 | 1.969 |
| 5.000 | 2.067 |
| 7.000 | 2.428 |
| 10.000 | 2.953 |
| 67.500 | 6.726 |
| 71.500 | 6.890 |
| 88.500 | 7.218 |
| 100.000 | 7.546 |
| 135.000 | 8.859 |
| 143.000 | 9.187 |
| 180.000 | 10.171 |
| 270.000 | 12.468 |
| 360.000 | 14.436 |
| 540.000 | 18.046 |
| 720.000 | 20.998 |
| 750.000 | 21.327 |
| 1000.000 | 24.936 |
| 1500.000 | 30.513 |
| 2000.000 | 35.763 |
| 2250.000 | 38.060 |
| 3000.000 | 43.965 |
| 4500.000 | 53.808 |

Max. Operating Voltage - UL:

300 V RMS

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms. Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Twisted Pair

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 22 | 7x30 | BC - Bare Copper |

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PP - Polypropylene | 1.168 |

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100.000 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22 | 7x30 | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.508 |

Outer Jacket Color Code Chart:

| Number | Color |
|--------|-------|
|--------|-------|

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| | |
|---|--------|
| 1 | Brown |
| 2 | Red |
| 3 | Orange |
| 4 | Yellow |

Overall Diameter

Overall Nominal Diameter: 3.429 mm

Electrical Characteristics

Input/Unfitted Impedance:

Impedance (Ohm)
45.000

Nom. Inductance:

Inductance (µH/m)
0.558

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
114.835

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
219.827

Nominal Velocity of Propagation:

VP (%)
66.000

Nominal Delay:

Delay (ns/m)
4.922

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
14.100

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
46.918

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
2.9 Amps per conductor @ 25°C

Physical Characteristics (Overall)

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 16.256 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 282.758 Kg/Km

Max. Recommended Pulling Tension: 947.467 N

Min. Bend Radius/Minor Axis: 165.100 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

METRIC MEASUREMENT VERSION

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| | |
|---------------------------------------|------------|
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 06/05/2006 |
| 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 |

Flame Test

| | |
|------------------|--------------|
| UL Flame Test: | UL1666 Riser |
| CSA Flame Test: | FT4 |
| IEEE Flame Test: | 1202 |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Max. Operating Voltage - UL:

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

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------------|-------|---------------------|
| 1347A B591000 | 1,000 FT | 232.000 LB | BLACK, MATTE | C | COMPOSITE CABLE PVC |
| 1347A B59500 | 500 FT | 108.500 LB | BLACK, MATTE | C | COMPOSITE CABLE PVC |

Notes:

C = CRATE REEL PUT-UP.

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