# **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

## 539945 Composite - CCTV Plus Audio or Power or Pan and Tilt CCTV Control Applications



For more Information please call

1-800-Belden1



## **Description:**

18 AWG bare copper conductor, foam polyolefin insulation, bare copper braid shield, PVC jacket

### Usage (Overall)

Suitable Applications:

CCTV plus Audio, Pan and Tilt CCTV Control

| Coax   |
|--|
| Physical Characteristics<br>Conductor<br>AWG:  |
| # Coax AWG Stranding Conductor Material Dia. (in.)   |
| 1   18   Solid   BC - Bare Copper   0.040  |
| Insulation<br>Insulation Material:   |
| Insulation MaterialDia. (in.)FPE - Foam Polyethylene0.180  |
| Inner Shield<br>Inner Shield Material:   |
| TypeInner Shield Material % Coverage (%)BraidBC - Bare Copper95.000  |
| Applicable Specifications and Agency Compliance<br>Applicable Standards & Environmental Programs           |
| EU CE Mark: Yes  |
| Nom. Characteristic Impedance:<br>Impedance (Ohm)<br>75<br>Nom. Inductance:<br>Inductance (µH/ft)<br>0.097 |
| Nom. Capacitance Conductor to Shield:<br>Capacitance (pF/ft)<br>16.300                                     |
| Nominal Velocity of Propagation:<br>VP (%)<br>83.000   |
| Nominal Delay:   |
| Delay (ns/ft)<br>1.220   |
| Nom. Conductor DC Resistance:  |
| DCR @ 20°C (Ohm/1000 ft)<br>6.400  |
| Nom. Inner Shield DC Resistance:   |

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| 3.100  | 0°C (Ohm/1000 ft)   |   |
|--|---|---|
| L  |   |   |
| Nom. Atten   |   | _   |
|  | z) Attenuation (dB/100 ft.)   |   |
| 1.000  | 0.200   |   |
| 5.000<br>10.000  | 0.450   |   |
| 50.000   | 1.460   |   |
| 100.000  | 2.100   |   |
| 200.000  | 3.000   |   |
| 400.000  | 4.300   |   |
| 700.000  | 5.800   |   |
| 900.000  | 6.700   |   |
| 1000.000   | 7.100   |   |
| Max. Ope   | rating Voltage - UL:  |   |
|  |   |   |
| wisted Pai   |   |   |
|  | aracteristics   |   |
| Conductor<br>AWG:  | r   |   |
|  | AWG Stranding Conduct   | tor Material Dia (in)   |
| # Pairs  | AWG   Stranding   Conduct     18   7   BC - Bard  |   |
| L'   |   |   |
| Twisted F  | r Color   |   |
| Numbe<br>1<br>Individual<br>Electrical Ch  | Black and Red<br>Shield<br>naracteristics   | anductor:   |
| Numbe<br>1<br>Individual<br>Electrical Ch  | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C   | Conductor:  |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500  | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C   |   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>nee (pF/ft)<br>maracteristics (Over  |   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>nce (pF/ft)<br>naracteristics (Over  |   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capao<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield<br>Outer Shield   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>naracteristics (Over<br>d<br>d Material:  |   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capao<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield<br>Outer Shield   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>naracteristics (Over<br>d<br>d Material:<br>eld Material  |   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield<br>Outer Shield   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>naracteristics (Over<br>d<br>d Material:<br>eld Material  |   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield<br>Outer Shield<br>Unshielded   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>naracteristics (Over<br>d<br>d Material:<br>eld Material  |   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Unshielded   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>naracteristics (Over<br>d<br>d Material:<br>eld Material  |   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>naracteristics (Over<br>d Material:<br>eld Material<br>d<br>le<br>ominal Diameter:  | <b>rall)</b><br>0.485 in.   |
| Numbe<br>1<br>Individual<br>Ilectrical Ch<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Overall Cabl<br>Overall No   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>naracteristics (Over<br>d Material:<br>eld Material<br>d  | <b>rall)</b><br>0.485 in.   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield<br>Outer Shield   | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>naracteristics (Over<br>d Material:<br>eld Material<br>d<br>le<br>ominal Diameter:<br>Characteristics (O<br>g Temperature Range:  | nall)<br>0.485 in.<br>Overall)  |
| Numbe<br>1<br>Individual<br>Electrical Cf<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield<br>Outer Shield<br>Outer Shield<br>Outer Shield<br>Overall Cabl<br>Overall Cabl<br>Overall No<br>echanical<br>Non-UL T  | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>d Material:<br>eld Material:<br>eld Material<br>d<br>c<br>characteristics (Over<br>d<br>d<br>d<br>d<br>c<br>c<br>c<br>f<br>c<br>f<br>c<br>f<br>c<br>f<br>c<br>f<br>c<br>f<br>c<br>f | rall)<br>0.485 in.<br>Overall)<br>-30°C To +80°C  |
| Numbe<br>1<br>Individual<br>lectrical CH<br>Nom. Capacitan<br>21.500<br>Nysical Ch<br>onductor<br>outer Shield<br>Outer Shield<br>Oute | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>aaracteristics (Over<br>d Material:<br>eld Material<br>d<br>e<br>ominal Diameter:<br>Characteristics (O<br>g Temperature Range:<br>emperature Rating:<br>le Weight:                 | rall)   0.485 in.   overall)   -30°C To +80°C   75°C   6 lbs/1000 ft.                   |
| Numbe<br>1<br>Individual<br>Electrical CH<br>Nom. Capacitan<br>21.500<br>hysical Ch<br>Conductor<br>Duter Shield<br>Outer Shield<br>Outer Shield<br>Overall Cabl<br>Overall Cabl<br>Overall N<br>lechanical<br>Non-UL T<br>Bulk Cabl<br>Max. Rece  | Black and Red<br>Shield<br>naracteristics<br>citance Conductor to C<br>ice (pF/ft)<br>d Material:<br>eld Material:<br>eld Material<br>d<br>c<br>characteristics (Over<br>d<br>d<br>d<br>d<br>c<br>c<br>c<br>f<br>c<br>f<br>c<br>f<br>c<br>f<br>c<br>f<br>c<br>f<br>c<br>f | rall)   0.485 in.   overall)   -30°C To +80°C   75°C   6 lbs/1000 ft.   ision: 114 lbs. |

## Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs

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| NEC/(UL) Specification:               | CMG                |  |  |  |
|---------------------------------------|--------------------|--|--|--|
| NEC Articles:                         | 800                |  |  |  |
| CEC/C(UL) Specification:              | CMG                |  |  |  |
| 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:                  | NEC Article 800    |  |  |  |
| lame Test                             |                    |  |  |  |
| UL Flame Test:                        | UL1685 FT4 Loading |  |  |  |
| C(UL) Flame Test:                     | FT4                |  |  |  |
| uitability                            |                    |  |  |  |
| Suitability - Indoor:                 | Yes                |  |  |  |
| lenum/Non-Plenum                      |                    |  |  |  |
| Plenum (Y/N):                         | No                 |  |  |  |
| Plenum Number:                        | 639948             |  |  |  |

### **Electrical Characteristics (Overall)**

Max. Operating Voltage - UL:

Voltage

300 V RMS

#### **Related Documents:**

No related documents are available for this product

#### Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc               |
|----------------|----------|-------------|-------|-------|-------------------------|
| 539945 0091000 | 1,000 FT | 53.000 LB   | WHITE | С     | 1 #18 PR, 1 RG-6/U COAX |
| 539945 009500  | 500 FT   | 27.500 LB   | WHITE | С     | 1 #18 PR, 1 RG-6/U COAX |
| 539945 0101000 | 1,000 FT | 53.000 LB   | BLACK | С     | 1 #18 PR, 1 RG-6/U COAX |
| 539945 010500  | 500 FT   | 27.500 LB   | BLACK | С     | 1 #18 PR, 1 RG-6/U COAX |

Notes:

C = CRATE REEL PUT-UP.

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