# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



# 9171 Composite - ENG and EFP Cable



For more Information please call

1-800-Belden1



## **General Description:**

1.000

0.300

14-conductor EFP and ENG camera cable, foam polyethylene (coax) and PVC (pairs and conductors) insulation, overall PVC jacket.

| insulation, overall i vo jacket.  |      |
|---|------|
| Coax  |      |
| Physical Characteristics Conductor AWG:   |      |
| # CoaxAWGStrandingConductor MaterialDia. (in.)2 22 7x30 BC - Bare Copper 0.030  |      |
| Insulation<br>Insulation Material:  |      |
| Insulation MaterialDia. (in.)FPE - Foam Polyethylene0.146   |      |
| Inner Shield<br>Inner Shield Material:  |      |
| TypeInner Shield Material% Coverage (%)BraidBC - Bare Copper95  |      |
| Inner Jacket<br>Inner Jacket Material:  |      |
| Inner Jacket Material Nom. Dia. (in.) PVC - Polyvinyl Chloride   0.242  |      |
| Inner Jacket Color Code Chart:  |      |
| Number Color  |      |
| 1 Black 2 Black w/Hash Marks  |      |
| Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs   |      |
| EU CE Mark:   | No   |
| RG Type:  | 59/U |
| Electrical Characteristics  |      |
| Nom. Characteristic Impedance:  |      |
| Impedance (Ohm) 75  |      |
| Nom. Capacitance Conductor to Shield:  Capacitance (pF/ft)  17.300  |      |
|   |      |
| Nominal Velocity of Propagation:  VP (%)  78.000  |      |
|   |      |
| Nominal Delay:  |      |
| Nominal Delay: Delay (ns/ft) 1.300  |      |
| Delay (ns/ft) 1.300  Nom. Conductor DC Resistance:  |      |
| Delay (ns/ft) 1.300   |      |
| Delay (ns/ft) 1.300  Nom. Conductor DC Resistance:  DCR @ 20°C (Ohm/1000 ft)  |      |
| Delay (ns/ft) 1.300  Nom. Conductor DC Resistance:  DCR @ 20°C (Ohm/1000 ft) 15.600   |      |
| Delay (ns/ft) 1.300  Nom. Conductor DC Resistance:  DCR @ 20°C (Ohm/1000 ft) 15.600  Nom. Inner Shield DC Resistance:  DCR @ 20°C (Ohm/1000 ft) |      |

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| 2.000   | 0.600 |
|---------|-------|
|         |       |
| 10.000  | 1.000 |
|         |       |
| 50.000  | 2.300 |
|         |       |
| 100.000 | 3.200 |
| .00.000 | 0.200 |

Max. Operating Voltage - Non-UL:

300 V RMS

#### **Twisted Pair**

#### **Physical Characteristics**

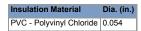
#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 5       | 22  | 7x30      | TC - Tinned Copper | 0.030      |

#### Insulation

Insulation Material:



#### Inner Shield

Inner Shield Material:



#### Inner Shield Drain Wire AWG:

| AWG | Stranding | Dia. (in.) | Conductor Material |
|-----|-----------|------------|--------------------|
| 22  | 7x30      | 0.030      | TC - Tinned Copper |

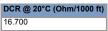
#### Inner Jacket

Inner Jacket Color Code Chart:

| Number | Color            |
|--------|------------------|
| 1      | Black and Red    |
| 2      | Black and White  |
| 3      | Black and Green  |
| 4      | Black and Blue   |
| 5      | Black and Yellow |

#### **Electrical Characteristics**

Nom. Conductor DC Resistance:

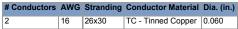


#### **Multi Conductor**

#### **Physical Characteristics**

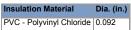
#### Conductor

AWG:



#### Insulation

Insulation Material:



#### Insulation Color Code Chart:

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

### **Electrical Characteristics**

Nom. Capacitance Conductor to Conductor:



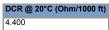
Nominal Velocity of Propagation:

**VP (%)** 62.000

Nominal Delay:

**Delay (ns/ft)** 1.640

Nom. Conductor DC Resistance:



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Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 12.500

Max. Operating Voltage - Non-UL:

| Voltage   | Description |  |
|-----------|-------------|--|
| 300 V RMS | Pairs       |  |
| 300 V RMS | Conductors  |  |

### **Physical Characteristics (Overall)**

#### **Outer Jacket**

**Outer Jacket Material:** 

**Outer Jacket Material** PVC - Polyvinyl Chloride

#### **Overall Cable**

**Overall Nominal Diameter:** 

0.585 in

### **Mechanical Characteristics (Overall)**

| -40°C To +75°C   |  |  |  |  |
|------------------|--|--|--|--|
| 75°C             |  |  |  |  |
| 186 lbs/1000 ft. |  |  |  |  |
| 337 lbs.         |  |  |  |  |
| 5.900 in.        |  |  |  |  |
|                  |  |  |  |  |

# Applicable Specifications and Agency Compliance (Overall)

#### **Applicable Standards & Environmental Programs**

| 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): | 10/01/2005 |
| 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        |
| uitability                            |            |
| Suitability - Indoor:                 | Yes        |
| Suitability - Outdoor:                | Yes        |
| Sunlight Resistance:                  | Yes        |

#### **Put Ups and Colors:**

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc                |
|--------------|----------|-------------|--------|-------|--------------------------|
| 9171 0601000 | 1,000 FT | 193.000 LB  | CHROME | С     | 5 SHLD PR#22,2#16,2 COAX |
| 9171 060500  | 500 FT   | 97.500 LB   | CHROME | С     | 5 SHLD PR#22,2#16,2 COAX |

Su

C = CRATE REEL PUT-UP.

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