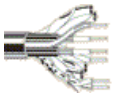
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

9171 Composite - ENG and EFP Cable



For more Information
please call

1-800-Belden1

General Description:

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

Coax

Physical Characteristics

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
2	22	7x30	BC - Bare Copper	0.030

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FPE - Foam Polyethylene	0.146

Inner Shield

Inner Shield Material:

Type	Inner Shield Material	% Coverage (%)
Braid	BC - Bare Copper	95

Inner Jacket

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:

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)
2.540

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.300

2.000	0.600
10.000	1.000
50.000	2.300
100.000	3.200

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:

Insulation Material	Dia. (in.)
PVC - Polyvinyl Chloride	0.054

Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

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:

DCR @ 20°C (Ohm/1000 ft)
16.700

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	16	26x30	TC - Tinned Copper	0.060

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PVC - Polyvinyl Chloride	0.092

Insulation Color Code Chart:

Number	Color
1	Black
2	White

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
31.100

Nominal Velocity of Propagation:

VP (%)
62.000

Nominal Delay:

Delay (ns/ft)
1.640

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.400

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)

Operating Temperature Range:	-40°C To +75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	186 lbs/1000 ft.
Max. Recommended Pulling Tension:	337 lbs.
Min. Bend Radius/Minor Axis:	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

Suitability

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	C	5 SHLD PR#22,2#16,2 COAX
9171 060500	500 FT	97.500 LB	CHROME	C	5 SHLD PR#22,2#16,2 COAX

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 0 Revision Date: 02-16-2009

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