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1-800-Belden1



## General Description:

22 AWG stranded (7x30) conductors, foam polyethylene (coax) and PVC (Pairs) insulation, coax w/BC braid shield (95% coverage), (3) STP, each pair w/Beldfoil shield, 22 AWG drain wire, PVC jacket.

## Coax

### Physical Characteristics

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	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

### 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. Inductance:

Inductance (µH/ft)
0.090

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)
15.000

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.600

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.300
5.000	0.700
10.000	1.000
50.000	2.100
100.000	3.000
400.000	7.400

## Twisted Pair

### Physical Characteristics

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
3	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® (Z-Fold®)	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	Orange and Brown
3	Green and White

### Electrical Characteristics

Nom. Characteristic Impedance:

Impedance (Ohm)
35

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
51.000

Nominal Velocity of Propagation:

VP (%)
58.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
11.000

## Physical Characteristics (Overall)

### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 0.290 x 0.561 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 85 lbs/1000 ft.

Max. Recommended Pulling Tension: 147 lbs.

Min. Bend Radius/Minor Axis: 3 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CL2X

AWM Specification: UL Style 20006

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): 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

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Max. Operating Voltage - UL:**

<b>Voltage</b>
30 V RMS

**Notes (Overall)**

**Notes:** Siamese Type Construction.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9165 0101000	1,000 FT	94.000 LB	BLACK	C	3 SH PR#22,1 75 OHM COAX
9165 010500	500 FT	50.000 LB	BLACK	C	3 SH PR#22,1 75 OHM COAX

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 0 Revision Date: 08-27-2012

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