



For more Information  
please call

1-800-Belden1



## General Description:

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

## Coax

### Physical Characteristics

#### Conductor

##### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	22	7x30	BC - Bare Copper	0.762

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (mm)
FPE - Foam Polyethylene	3.708

#### 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/m)
0.295

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
56.761

### Nominal Velocity of Propagation:

VP (%)
78.000

### Nominal Delay:

Delay (ns/m)
4.265

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
49.215

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.531

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.984
5.000	2.297
10.000	3.281
50.000	6.890
100.000	9.843
400.000	24.279

## Twisted Pair

### Physical Characteristics

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
3	22	7x30	TC - Tinned Copper	0.762

#### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
PVC - Polyvinyl Chloride	1.372

#### 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. (mm)	Conductor Material
22	7x30	0.762	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/m)  
167.331

**Nominal Velocity of Propagation:**

VP (%)  
58.000

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)  
36.091

## Physical Characteristics (Overall)

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material  
PVC - Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 7.366 x 14.249 mm

## Mechanical Characteristics (Overall)

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

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 126.497 Kg/Km

Max. Recommended Pulling Tension: 653.885 N

Min. Bend Radius/Minor Axis: 76.200 mm

## 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:

Voltage
30 V RMS

## Notes (Overall)

Notes: Siamese Type Construction.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9165 0101000	305 MT	42.638 KG	BLACK	C	3 SH PR#22,1 75 OHM COAX
9165 010500	152 MT	22.680 KG	BLACK	C	3 SH PR#22,1 75 OHM COAX

### Notes:

C = CRATE REEL PUT-UP.

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

© 2013 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and

## **9165 Composite - ENG, EFP and CCTV Cable**

the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.