

## 549945 Composite - CCTV Plus Audio or Power or Pan and Tilt CCTV Control Applications

For more Information  
please call

1-800-Belden1



### Description:

20 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

##### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BC - bare Copper	0.032

##### Insulation

**Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.145

##### Inner Shield

**Inner Shield Material:**

Type	Inner Shield Material	% Coverage (%)
Braid	BC - Bare Copper	95.000

#### Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

**EU CE Mark:** Yes

**RG Type:** 59/U

#### Electrical Characteristics

**Nom. Characteristic Impedance:**

Impedance (Ohm)
75

**Nom. Inductance:**

Inductance (µH/ft)
0.097

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
16.300

**Nominal Velocity of Propagation:**

VP (%)
83.000

**Nominal Delay:**

Delay (ns/ft)
1.220

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
10.000

## 549945 Composite - CCTV Plus Audio or Power or Pan and Tilt CCTV Control Applications

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.500

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.300
5.000	0.650
10.000	0.900
50.000	1.900
100.000	2.600
200.000	3.600
400.000	5.000
700.000	7.000
900.000	8.000
1000.000	8.500

Max. Operating Voltage - UL: 350 V RMS

## Twisted Pair

### Physical Characteristics

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	7x26	BC - Bare Copper	0.046

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
PP - Polypropylene	0.059

##### Twisted Pair Color Code Chart:

Number	Color
1	Black and Red

### Electrical Characteristics

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
22.500

## Physical Characteristics (Overall)

### Conductor

### Outer Shield

#### Outer Shield Material:

Outer Shield Material
Unshielded

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

Overall Nominal Diameter: 0.232 x 0.450 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +80°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 54 lbs/1000 ft.

Max. Recommended Pulling Tension: 102 lbs.

## 549945 Composite - CCTV Plus Audio or Power or Pan and Tilt CCTV Control Applications

Min. Bend Radius (Install)/Minor Axis:	2.500 in.
--	-----------

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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):	01/01/2005
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

#### Flame Test

UL Flame Test:	UL1685 UL Loading
C(UL) Flame Test:	FT4

#### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	649948

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
549945 0091000	1,000 FT	49.000 LB	WHITE	C	1 #18 PR, 1 RG-59/U COAX
549945 009500	500 FT	26.500 LB	WHITE	C	1#18,1RG-59/U COAX
549945 0101000	1,000 FT	49.000 LB	BLACK	C	1#18,1RG-59/U COAX
549945 010500	500 FT	26.500 LB	BLACK	C	1#18,1RG-59/U COAX

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4    Revision Date: 02-24-2009

© 2012 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 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

## 549945 Composite - CCTV Plus Audio or Power or Pan and Tilt CCTV Control Applications

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. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.