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## 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. (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

## METRIC MEASUREMENT VERSION

## 9165 Composite - ENG, EFP and CCTV Cable

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	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.

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