

Product: <u>9165</u> ☑



Composite ENG, EFP and CCTV

Product Description

Composite, RG-59 22 AWG BC Coax, stranded (7x30), BC braid 95% coverage, 3 PR 22 AWG TC, stranded (7x30), w/drain wire, PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

AWG	Stranding	Material	Nominal Diameter	No. of Pairs	No. of Coax
22	7x30	BC - Bare Copper	0.03 in		1
22	7x30	TC - Tinned Copper	0.029 in	3	

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.146 in
PVC - Polyvinyl Chloride	0.054 in

Color Chart

Number	Color
1	Black and Red
2	Orange and Brown
3	Green and White

Inner Shield

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Braid	Bare Copper (BC)	Beldfoil® (Z-Fold®)	95%	0.03 in	22	7x30
Таре	Bi-Laminate (Alum+Poly)		100%			

Outer Shield

1	Гуре	Layer	Material	Coverage [%]
E	Braid	1	Bare Copper (BC)	95%

Outer Jacket

 Material
 Nominal Diameter

 PVC - Polyvinyl Chloride
 0.290 x 0.561 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
15.0 Ohm/1000ft	15 Ohm/1000ft	2.6 Ohm/1000ft	2.6 Ohm/1000ft
	11 Ohm/1000ft		

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
51 pF/ft	17.3 pF/ft

Inductance

Nominal Inductance

0.00 μ.

Impedance

Nominal Characteristic Impedance		
75 Ohm		
35 Ohm		

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
5 MHz	0.7 dB/100ft
10 MHz	1 dB/100ft
50 MHz	2.1 dB/100ft
100 MHz	3 dB/100ft
400 MHz	7.4 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	78%
	58%

Voltage

UL Voltage Rating 30 V RMS

00 1 1 110

Temperature Range

Non-UL Temp Rating:	60°C
Operating Temperature Range:	-30°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	85 lbs/1000ft
Max. Pull Tension:	147 lbs
Min. Bend Radius/Minor Axis:	3 in

Standards

NEC/(UL) Compliance:	CL2X
UL AWM Style Compliance:	AWM 20006
RG Type:	59

Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Aerial
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire	
Suitability - Burial:	No	
Suitability - Hazardous Locations:	No	
Suitability - Indoor:	Yes	
Suitability - Outdoor:	Yes - Black only	

Flammability, LS0H, Toxicity Testing

UL voltage rating:				30 V RMS		
Plenum/Noi	n-Pler	num				
Plenum (Y/N):		No				
Related Par	Related Part Numbers					
Variants						
ltem #	Color	Put-Up Type	Length	UPC		
9165 010500	Black	Reel	500 ft	612825225058		
9165 0101000	Black	Reel	1,000 ft	612825225041		
Footnote: C - CRATE REEL PUT-UP.						
Product No	tes					
Notes:				Siamese T	ype Construction. Coax jacket diameter: .240 in. Pairs jacket diameter: .290 in.	

History

Update and Revision:

Revision Number: 0.276 Revision Date: 04-08-2022

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