METRIC MEASUREMENT VERSION





501PTZ Composite - For PTZ Cameras: CCTV + Control + Power

For more Information please call

1-800-Belden1



Description:

(1) Coax - 20 AWG solid BC cond., gas-injected foam HDPE insul., 95% BC braid shield, PVC jkt, cabled with (1) pair - 22 AWG stranded (7x30) BC cond., PO insul., Beldfoil® shield, PVC jkt, cabled with (2) cond., 18 AWG (7x26) BC cond., PP insul., PVC Jkt

Coax

Physical Characteristics

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid	BC - Bare Copper	0.813

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.683

Inner Shield

Inner Shield Material:

Type	Inner Shield Material	% Coverage (%)
Braid	BC - Bare Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (mm) 5.766

Outer Jacket Color Code Chart:

Number Color Video Black

Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU CE Mark:	Yes
RG Type:	59/U
Flame Test	
UL Flame Test:	UL1666 Vertical Shaft
Suitability	
Suitability - Indoor:	Yes

Electrical Characteristics

Nom. Characteristic Impedance:

Impedance (Ohm)

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75
Nom. Inductance:
Inductance (µH/m)

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 53.480

Nominal Velocity of Propagation:

VP (%) 83.000

0.318

Nominal Delay:

Delay (ns/m) 4.003

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 32.810

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km) 11.484

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.984
5.000	2.133
10.000	2.953
50.000	6.234
100.000	8.531
200.000	11.812
400.000	16.405
700.000	22.967
900.000	26.248
1000.000	27.889

Max. Operating Voltage - UL:

300 V RMS

Twisted Pair

Physical Characteristics

Conductor

AWG:

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

Insulation

Insulation Material:

| Insulation Material Dia. (mm) | PO - Polyolefin | 1.575

Twisted Pair Color Code Chart:

Number Color

1 Blue and White/Blue

Individual Shield

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000

Outer Shield Drain Wire AWG:

AWG Stranding Drain Wire Conductor Material

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501PTZ Composite - For PTZ Cameras: CCTV + Control + Power

	22 7x30	TC	- Tinned Co	opper		
Oute	er Jacket					
	iter Jacket Ma	ateria	al:			
	Outer Jacket M					
	PVC - Polyvinyl					
	iter Jacket Dia	_	er:			
	Nom. Dia. (mm 4.496	1)				
	ıter Jacket Co	_ Nor C	Code Chai	rt·		
	Number Color		ouo onu			
	1 Blue					
Applic	able Specifi	icatio	ons and	Agency Comp	liance	
				ironmental Pro		
NE 	C/(UL) Specif	fication	on:		CMR	
CE	C/C(UL) Spec	ifica	tion:		CMG	
Flan	ne Test					
UL	Flame Test:				UL1666	6 Vertical Shaft
Suit	ability					
Sui	itability - Indo	or:			Yes	
	ical Charact					
	. Capacitance		nductor to	Shield:		
	apacitance (pF/r i4.207	m)				
	. Capacitance	 Con	nductor to	Conductor:		
	apacitance (pF/r		.auotoi to	, -0114401011.		
	5.744					
Nom	. Conductor E	OC R	esistance):		
	CR @ 20°C (Ohr	n/km)				
52	.496		_			
	inal Outer Sh		_	tance:		
	CR @ 20°C (Ohr 0.372	n/km)				
		- lác -				
	Operating Vo	oitage	e - Otner:			
	0 V RMS					
	Recommend	ed C	urrent:			
	urrent					
2.9	9 Amps per cond	luctor	@ 25°C			
NAI4: C	Namalustan					
	Conductor	ricti	00			
-	cal Characte ductor	ıısı	US			
	VG:					
				Conductor Materi		
	2	18	7x26	BC - Bare Copper	1.194	

Insulation

Insulation Material:

Insulation Material
PP - Polypropylene

Insulation Color Code Chart:

Number Color

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METRIC MEASUREMENT VERSION



501PTZ Composite - For PTZ Cameras: CCTV + Control + Power

1	Red
2	Black

Individual Shield

Outer Jacket

Outer Jacket Diameter:

Nom. Dia. (mm) 4.013

Outer Jacket Color Code Chart:

Number Color

1 White

Applicable Specifications and Agency Compliance

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR
CEC/C(UL) Specification: CMG

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 70.542

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 21.327

Max. Operating Voltage - Other:

Voltage 300 V RMS

Max. Recommended Current:

Current
5 Amps per conductor @ 25°C

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material Unjacketed

Overall Cable

Overall Nominal Diameter: 10.643 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -10°C To +75°C

Separation Temperature Range: 0°C To +75°C

Bulk Cable Weight: 89.292 Kg/Km

Max. Recommended Pulling Tension: 533.784 N

Min. Bend Radius/Minor Axis: 106.680 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2000/53/EC (ELV): Yes

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501PTZ Composite - For PTZ Cameras: CCTV + Control + Power

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		
Plenum Number:	601PTZ		

Notes (Overall)

Notes: RG59 CCTV + 1 STP22 AWG Control Grade + 2C 18 AWG CMR. Individually jacketed and color coded components, cabled around and each fused to a central binding spline. Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation. Banana Peel® US PATENT 7049523.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
501PTZ 0001000	305 MT	32.205 KG	NONE	С	1 RG59 + 1 STP 22 + 2C18

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 07-15-2008

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