Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

500PTZ Composite - For PTZ Cameras: CCTV + Control + Power

For more Information
please call

1-800-Belden1

Description:

Coax:20 AWG solid BC cond., gas-injected foam HDPE insul., 95% BC braid shield, PVC jacket, cabled with(1) pair - 23 AWG solid BC conductor, PO insulation, PVC Jacket, and cabled with (2) conductors, 18 AWG (7x26) BC conductors, PP insulation,PVC jacket

Coax

Physical Characteristics

Conductor

AWG:

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

Insulation

Insulation Material:

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

Outer Shield

Outer Shield Material:

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

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)

75

Nom. Inductance:

Inductance (µH/m)
0.318

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.480

Nominal Velocity of Propagation:

VP (%)
83.000

Nominal Delay:

Delay (ns/m)
4.003

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
32.810

Nominal Outer 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	23	Solid	BC - Bare Copper	0.584

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PO - Polyolefin	1.041

Twisted Pair Color Code Chart:

Number	Color
1	Blue and White/Blue

Outer Shield

Outer Shield Material:

Type	Dia. (mm)
PVC - Polyvinyl Chloride	2.997

Outer Jacket

Outer Jacket Color Code Chart:

Number	Color

1	Blue

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)
49.215

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
65.620

Max. Operating Voltage - Other:

Voltage
300 V RMS

Max. Recommended Current:

Current
2.4 Amps per conductor @ 25°C

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	18	7x26	BC - Bare Copper	1.194

Insulation

Insulation Material:

Insulation Material
PP - Polypropylene

Insulation Color Code Chart:

Number	Color
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

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
Unjacketed

Overall Cable

Overall Nominal Diameter:	10.439 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:	511.543 N
Min. Bend Radius/Minor Axis:	104.140 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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
Plenum Number:	600PTZ

Notes (Overall)

Notes: RG59 CCTV + 1PR23 UTP + 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

500PTZ Composite - For PTZ Cameras: CCTV + Control + Power

500PTZ 0001000	305 MT	26.308 KG	NONE	C	1 RG59 + 1 UTP 23 + 2C18

Notes:
C = CRATE REEL PUT-UP.

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