

**Detailed Specifications &
Technical Data**



500PTZ Composite - Banana Peel® PTZ Coax Composite

Picture Not Available	<u>See Put-ups and Colors</u>
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Description:

Banana Composite: 1 coax - 20 AWG solid BC cond., gas-injected foam high-density PE insul., 95% BC braid shield; 1 pair - 23 AWG solid BC cond., polyolefin insul., Beldfoil® shield; 2 cond. - 18 AWG (7x26) BC cond., PVC insul.; F-R PVC jackets.

PHYSICAL CHARACTERISTICS:

COAX:

Number of Coax	1
RG Type (Single Coax)	59/U

CONDUCTOR :

Coax AWG	20
Coax Stranding	Solid
Coax Conductor Diameter	.032 in.
Coax Conductor Material	BC - Bare Copper

INSULATION :

Coax Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Coax Insulation Diameter	.145 in.

OUTER SHIELD :

Coax Outer Shield Type	Braid
Coax Outer Shield Material	BC - Bare Copper
Coax Outer Shield % Coverage	95 %

OUTER JACKET :

Coax Outer Jacket Material	PVC - Polyvinyl Chloride
Coax Outer Jacket Diameter	.227 in.

Coax Outer Jacket Color Code Chart :

Number	Color
Video	Black

TWISTED PAIR CABLE(S):

CONDUCTOR :

Number of Pairs	1
Twisted Pair AWG	23
Twisted Pair Stranding	Solid
Twisted Pair Conductor Diameter	.023 in.
Twisted Pair Conductor Material	BC - Bare Copper

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INSULATION :

Twisted Pair Insulation Material PO - Polyolefin

Twisted Pair Insulation Diameter .041 in.

Twisted Pair Color Code Chart :

Number	Color
1	Blue & White/Blue

OUTER JACKET :

Twisted Pair Outer Jacket Material PVC - Polyvinyl Chloride

Twisted Pair Outer Jacket Diameter .118 in.

Twisted Pair Outer Jacket Color Code Chart :

Number	Color
1	Blue

MULTICONDUCTOR CABLE(S):

CONDUCTOR :

Number of Conductors 2

Multi-Conductor AWG 18

Multi-Conductor Stranding 7x26

Multi-Conductor Conductor Diameter .047 in.

Multi-Conductor Conductor Material BC - Bare Copper

INSULATION :

Multi-Conductor Insulation Material PVC - Polyvinyl Chloride

Multi-Conductor Insulation Color Code Chart :

Number	Color	Number	Color
1	Red	2	Black

OUTER JACKET :

Multi-Conductor Outer Jacket Diameter .171 in.

Multi-Conductor Outer Jacket Color Code Chart :

Number	Color
1	White

OVERALL CABLING:

CONDUCTOR :

Total Number of Conductors 5

OUTER JACKET :

Overall Cabling Outer Jacket Material Unjacketed

OVERALL DIAMETER :

Overall Composite Cabling Nominal Diameter .411 in.

MECHANICAL CHARACTERISTICS:

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OVERALL CABLING:

Overall Cabling Operating Temperature Range	-10°C To +75°C
Overall Cabling Separation Temperature Range	0°C To +75°C
Overall Cabling Bulk Cable Weight	60 lbs/1000 ft.
Overall Cabling Max. Recommended Pulling Tension	115 lbs.
Overall Cabling Min. Bend Radius (Install)	4.1 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

COAX:

APPLICABLE STANDARDS :

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

FLAME TEST :

Coax UL Flame Test	UL1666 Vertical Shaft
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SUITABILITY :

Coax Suitability - Indoor	Yes
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TWISTED PAIR CABLE(S):

APPLICABLE STANDARDS :

Twisted Pair NEC/(UL) Specification	CMR
Twisted Pair CEC/C(UL) Specification	CMG

FLAME TEST :

Twisted Pair UL Flame Test	UL1666 Vertical Shaft
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SUITABILITY :

Twisted Pair Suitability - Indoor	Yes
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MULTICONDUCTOR CABLE(S):

APPLICABLE STANDARDS :

Multi-Conductor NEC/(UL) Specification	CMR
Multi-Conductor CEC/C(UL) Specification	CMG

FLAME TEST :

Multi-Conductor UL Flame Test	UL1666 Vertical Shaft
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SUITABILITY :

Multi-Conductor Suitability - Indoor	Yes
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OVERALL CABLING:

PLENUM/NON-PLENUM :

Overall Cabling Plenum (Y/N)	N
Overall Cabling Plenum Number	600PTZ

ELECTRICAL CHARACTERISTICS:

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COAX:

Coax Nom. Characteristic Impedance	75 Ohms
Coax Nom. Inductance	.097 µH/ft
Coax Nom. Capacitance Conductor to Shield	16.3 pF/ft
Coax Nominal Velocity of Propagation	83 %
Coax Nominal Delay	1.22 ns/ft
Coax Nom. Conductor DC Resistance @ 20 Deg. C	10 Ohms/1000 ft
Coax Nom. Outer Shield DC Resistance	3.5 Ohms/1000 ft

Coax Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.30
	5			.65
	10			.90
	50			1.9
	100			2.6
	200			3.6
	400			5.0
	700			7.0
	900			8.0
	1000			8.5

Coax Max. Operating Voltage - UL 300 V RMS

TWISTED PAIR CABLE(S):

Twisted Pair Nom. Cap. Cond. to Cond. @ 1 KHz	15 pF/ft
Twisted Pair Nom. Cond. DC Resistance @ 20 Deg. C	20 Ohms/1000 ft
Twisted Pair Max. Operating Voltage - Other	300 V RMS
Twisted Pair Max. Recommended Current	2.4 Amps per conductor @ 25°C

MULTICONDUCTOR CABLE(S):

Multi-Conductor Nom. Cap. Cond. to Other Cond. & Shld	30 pF/ft
Multi-Conductor Nom. DC Resistance @ 20 Deg. C	6.5 Ohms/1000 ft
Multi-Conductor Max. Operating Voltage - Other	300 V RMS
Multi-Conductor Max. Recommended Current	5 Amps per conductor @ 25°C

NOTES:

OVERALL CABLING:

Overall Cabling Notes	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.
Overall Cabling Notes - cont'd.	Banana Peel® Patent Pending.

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PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
500PTZ 0001000	BONDED FILLER COMPOSITE	1000	71	NONE	C
500PTZ 000500	BONDED FILLER COMPOSITE	500	38.5	NONE	C

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 06-25-2004

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