



Part Number: 2505PTZ

PTZ, RG-59 #20, #18-1pr, #16-2c, Shielded, CM, Siamese

Product Description

PTZ (CCTV + Control + Power) Cable, Rated-CM, 1-RG59 20 AWG solid bare copper with foam polyolefin, 95% bare copper braid, 1-18 AWG stranded bare copper pair with PVC insulation and Beldfoil® shield, 2-16 AWG stranded bare copper conductors with PVC insulation, Siamese with PVC jacket, Aluminum interlocking armor

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs	No. of Coax
Coax	20	Solid	BC - Bare Copper	0.032 in	1		1
Shielded Pair	18	7x26	BC - Bare Copper			1	
Power conductors	16	19x29	BC - Bare Copper		2		

Conductor Count:	5
Conductor Size:	20 AWG

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
Gas-injected FHDPE - Foam High Density Polyethylene	0.145 in	
PP - Polypropylene		0.008 in
PP - Polypropylene		0.008 in

Color Chart

Number	Color
Coax core	Natural
Shielded pair	Red and Black
Power conductors	Red and Black
Coax jacket	Black
Shielded ppair jacket	Blue
Power jacket	White

Color Chart 4

Number	Color
1	Black
1	Gray
1	White

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Braid	BC - Bare Copper		93.0 %	24	7x32
Tape	Aluminum Foil-Polyester Tape	Beldfoil® with shorting fold	100.0 %		
Unshielded					

Outer Shield Material

Drainwire Construction n x D
7x28 mm

Note:	Polyester
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Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.165 in
PVC - Polyvinyl Chloride	0.496 in
Unjacketed	

Construction and Dimensions

Armor

Type of Armor	Material	Diameter over Armoring
Interlocked	Aluminum	0.633 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR
Coax	10 Ohm/1000ft	10 Ohm/1000ft	3.5 Ohm/1000ft
Shielded pair	6.5 Ohm/1000ft	4.2 Ohm/1000ft	
Power Conductors	4.2 Ohm/1000ft		

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield	Nom. Capacitance Conductor to Shield
		16.3 pF/ft
53 pF/ft	95.5 pF/ft	
Shielding:		Multiple or Specialty

Inductance

Nominal Inductance
0.097 μ H/ft
0.145 μ H/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
5 MHz	0.65 dB/100ft
10 MHz	0.9 dB/100ft
50 MHz	1.9 dB/100ft
100 MHz	2.6 dB/100ft
200 MHz	3.6 dB/100ft
400 MHz	5 dB/100ft
700 MHz	7 dB/100ft
900 MHz	8 dB/100ft
1000 MHz	8.5 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
83 ns/100m	1.22 ns/ft	83 %

Current

Max. Recommended Current [A]
5 Amps per conductor @ 25°C
Per conductor @ 25°C: 5 A

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temp Range:	-10°C To +75°C
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Separation Temp Range:	0°C To +75°C
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Mechanical Characteristics

Bulk Cable Weight:	142 lbs/1000ft
Max Recommended Pulling Tension:	210 lbs
Min Bend Radius/Minor Axis:	9.5 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
RG Type:	59/U Type
RG / Series Type:	59/U Type
Other Standards:	Coax: RG 59/U

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2007-06-08
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Footnote
2505PTZ 0001000	Black	C

Footnote:	C - CRATE REEL PUT-UP.
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