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1-800-Belden1



General Description:

PTZ (Control+Power) Cable, Riser-CMR, 2-23 AWG solid bare copper pairs with polyolefin insulation, 2-16 AWG stranded bare copper conductors with polyolefin insulation, PVC jacket

Usage (Overall)

Suitable Applications: UTP-CCTV, CCTV Video/Control, Surveillance, Video Over Twisted Pairs, Closed Circuit Television

Twisted Pair

Physical Characteristics

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
2	23	Solid	BC - Bare Copper	0.584

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PO - Polyolefin	1.016

Twisted Pair Color Code Chart:

Number	Color
1	Blue and White/Blue
2	Orange and White/Orange

Inner Shield

Inner Shield Material:

Inner Shield Material
Unshielded

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
49.215

Maximum Capacitance Unbalance:

Capacitance (pF/m)
1082.730

Nominal Velocity of Propagation:

VP (%)
70.000

Maximum Delay:

Delay (ns/m)
147.645

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9.000

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
5.000

Premise Cable Electricals:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Fitted Imp. (Ohms)
1.0	2.000	62	100 ± 15%
4.0	4.100	53	100 ± 15%
8.0	5.800	48	100 ± 15%
10.0	6.500	47	100 ± 15%
16.0	8.200	44	100 ± 15%
20.0	9.300	42	100 ± 15%
25.0	10.400	41	100 ± 15%

31.25	11.700	39	100 ± 15%
62.5	17.000	35	100 ± 15%
100	22.000	32	100 ± 15%

Premise Cable Electrical Table 1:

Freq. (MHz)	Min. PSACR (dB)	Min RL (dB)
1	60	20.000
4	49	23.000
8	43	24.500
10	41	25.000
16	36	25.000
20	34	25.000
25	31	24.300
31.25	28	23.600
62.5	19	21.500
100	11	20.100

Premise Cable Electrical Table 2:

Freq. (MHz)	Min. PSELFEXT (dB)
1	61
4	49
8	43
10	41
16	37
20	35
25	33
31.25	31
62.5	24
100	21

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	16	19x29	TC - Tinned Copper	1.499

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PP - Polypropylene	1.956

Insulation Color Code Chart:

Number	Color
1	Red
2	Black

Individual Shield

Electrical Characteristics

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
1.470

Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
F-R PVC - Flame Retardant Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 5.918 mm

Mechanical Characteristics (Overall)

Bulk Cable Weight: 47.622 Kg/Km

Max. Recommended Pulling Tension: 467.061 N

Min. Bend Radius/Minor Axis:	50.800 mm
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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
Other Standards:	ISO/IEC 11801, Category 5e for data pair
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

Flame Test

UL Flame Test:	UL1666 Riser
C(UL) Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	6284UE

Electrical Characteristics (Overall)

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Notes (Overall)

Notes: Overall jacket sequentially marked.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5284UE 0091000	1,000 FT	44.000 LB	WHITE	C	2P23 UTP + 2C16 CMR
5284UE 009500	500 FT	22.500 LB	WHITE	C	2P23 UTP + 2C16 CMR
5284UE 0101000	1,000 FT	44.000 LB	BLACK	C	2P23 UTP + 2C16 CMR

Notes:

C = CRATE REEL PUT-UP.

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