

Part Number: 5284UE

PTZ, #23-2pr, #16-2c, CMR



Product 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

Technical Specifications

Product Overview

Suitable Applications:	UTP-CCTV, CCTV Video/Control, Surveillance, Video Over Twisted Pairs, Closed Circuit Television
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs
Data	23	Solid	BC - Bare Copper	0.023 in		2
Power	16	19x29	TC - Tinned Copper	0.059 in	2	

Conductor Count:	2
Total Number of Pairs:	2
Conductor Size:	23 AWG

Insulation

Material	Nominal Diameter
PO - Polyolefin	0.04 in
PP - Polypropylene	0.077 in

Color Chart

Number	Color
Pair 1	Blue and White/Blue
Pair 2	Orange and White/Orange
Conductor 1	Red
Conductor 2	Black

Inner Shield Material

Material
Unshielded

Outer Shield Material

Material
Unshielded

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
F-R PVC - Flame Retardant Polyvinyl Chloride	0.233 in	0.019 in

Electrical Characteristics

Conductor DCR

Element	Max. Conductor DCR	Max. DCR Unbalance	Nominal Conductor DCR
Data	90 Ohm/km	5 %	90 Ohm/km
Power	14.7 Ohm/km		14.7 Ohm/km

Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Conductor
330 pF/ft	15 pF/ft

Shielding:	Unshielded
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High Frequency (Nominal/Typical)

Frequency [MHz]
1 MHz
4 MHz
8 MHz
10 MHz
16 MHz
20 MHz
25 MHz
31.25 MHz
62.5 MHz
100 MHz

Delay

Max. Delay	Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
45 ns/ft	70 ns/100m	45 ns/ft	70 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. PSNEXT [dB]	Min. PSACR [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Fitted Impedance
1 MHz	2 dB/100m	62 dB	60 dB	61 dB	20 dB	100 ± 15%
4 MHz	4.1 dB/100m	53 dB	49 dB	49 dB	23 dB	100 ± 15%
8 MHz	5.8 dB/100m	48 dB	43 dB	43 dB	24.5 dB	100 ± 15%
10 MHz	6.5 dB/100m	47 dB	41 dB	41 dB	25 dB	100 ± 15%
16 MHz	8.2 dB/100m	44 dB	36 dB	37 dB	25 dB	100 ± 15%
20 MHz	9.3 dB/100m	42 dB	34 dB	35 dB	25 dB	100 ± 15%
25 MHz	10.4 dB/100m	41 dB	31 dB	33 dB	24.3 dB	100 ± 15%
31.25 MHz	11.7 dB/100m	39 dB	28 dB	31 dB	23.6 dB	100 ± 15%
62.5 MHz	17 dB/100m	35 dB	19 dB	24 dB	21.5 dB	100 ± 15%
100 MHz	22 dB/100m	32 dB	11 dB	21 dB	20.1 dB	100 ± 15%

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Max. Capacitance Unbalance for Pair: 330 pF/ft
Other Electrical Characteristic 2:	Maximum DCR Unbalance for Pair @ 20°C: 5%

Temperature Range

Operating Temp Range:	-20°C To +75°C
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Mechanical Characteristics

Bulk Cable Weight:	32 lbs/1000ft
Max Recommended Pulling Tension:	105 lbs
Min Bend Radius/Minor Axis:	2 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
ISO/IEC Compliance:	ISO/IEC 11801, Category 5e for data pair
Other Standards:	ISO/IEC 11801, Category 5e

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):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1666 Riser
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Footnote
5284UE 0101000	Black	C
5284UE 0091000	White	C
5284UE 009500	White	C

Footnote:	C - CRATE REEL PUT-UP.
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