

Part Number: 6284UE

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



Product Description

PTZ (Control + Power) Cable, Plenum-CMP, 2-23 AWG solid bare copper pairs with FEP insulation, 2-16 AWG stranded bare copper conductors with FEP insulation, Flamarrest® jacket

Technical Specifications

Product Overview

Suitable Applications:	UTP-CCTV, CCTV Video/Control, Surveillance, Video Over Twisted Pairs, Closed Circuit Television, Pan/Tilt/Zoom Cameras, PTZ, CCTV on UTP, CCTV
------------------------	--

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

Insulation

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.041 in
FEP - Fluorinated Ethylene Propylene	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

Color Chart 3

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

Inner Shield Material

Material
Unshielded

Outer Shield Material

Material
Unshielded

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.187 in	0.0145 in

Electrical Characteristics

Conductor DCR

Element	Max. Conductor DCR	Max. DCR Unbalance	Nominal Conductor DCR
Data	9 Ohm/100m	5 %	90 Ohm/km
Power	1.47 Ohm/100m		14.7 Ohm/km

Capacitance

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

Shielding:	Unshielded
------------	------------

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:	-10°C To +75°C
-----------------------	----------------

Mechanical Characteristics

Bulk Cable Weight:	35 lbs/1000ft
Max Recommended Pulling Tension:	105 lbs
Min Bend Radius/Minor Axis:	1.875 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	2005-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
-----------------------	-----

Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT6
UL Flammability:	NFPA 262

Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

Part Number

Non-Plenum Number:	5284UE
--------------------	--------

Variants

Item #	Color	Footnote
6284UE 0101000	BLACK	C
6284UE 010500	BLACK	C
6284UE 0091000	WHITE	C
6284UE 009500	WHITE	C

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2018 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.