Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

6284UE Composite - CCTV and PTZ Applications

For more Information
please call

1-800-Belden1

Description:

"23 AWG solid BC conductors, FEP insulation, plus 2 power conductors, 16 AWG stranded (19x29) tinned copper conductors, FEP insulation, unshielded, overall Flamarrest® jacket"

Usage (Overall)

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

Twisted Pair

Physical Characteristics

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
2	23	Solid	BC - Bare Copper	0.023

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FEP - Fluorinated Ethylene Propylene	0.041

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

Inner Jacket

Inner Jacket Color Code Chart:

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

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
15.000

Maximum Capacitance Unbalance:

Capacitance (pF/ft)
330.000

Nominal Velocity of Propagation:

VP (%)
70.000

Maximum Delay:

Delay (ns/ft)
45.000

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. (in.)
2	16	19x29	TC - Tinned Copper	0.059

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FEP - Fluorinated Ethylene Propylene	0.077

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 Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:	0.187 in.

Mechanical Characteristics (Overall)

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

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	01/01/2005
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:	NFPA 262

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	5284UE

Electrical Characteristics (Overall)

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Notes (Overall)

Notes: Overall jacket sequentially marked.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6284UE 0091000	1,000 FT	38.000 LB	WHITE	C	2 PR #23 + 2 #16 FEP FLRST
6284UE 009500	500 FT	19.500 LB	WHITE	C	2 PR #23 + 2 #16 FEP FLRST
6284UE 0101000	1,000 FT	38.000 LB	BLACK	C	2 PR #23 + 2 #16 FEP FLRST
6284UE 010500	500 FT	19.500 LB	BLACK	C	2 PR #23 + 2 #16 FEP FLRST

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-23-2010