

## 3633 Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



For more Information  
please call

1-800-Belden1



### Description:

23 AWG Solid Bare Copper Bonded-Pair Conductors, FEP Insulation, X-Spline Center Member, Rip Cord, Flamarrrest® PVC jacket.

### Usage (Overall)

**Suitable Applications:** Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
4	23	Solid	BC - Bare Copper

**Total Number of Conductors:** 8

#### Insulation

##### Insulation Material:

Insulation Material
FEP - Fluorinated Ethylene Propylene

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Flamarrrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.018

##### Outer Jacket Diameter:

Nom. Dia. (in.)
0.235

**Outer Jacket Ripcord:** Yes

#### Overall Cable

**Overall Cabling Separator Material:** Patented X-Spline Center Member

#### Pair

##### Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

### Mechanical Characteristics (Overall)

**Storage Temperature Range:** -20°C To +75°C

**Installation Temperature Range:** +5°C To +50°C

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Operating Temperature Range:	0°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	32 lbs/1000 ft.
Max. Recommended Pulling Tension:	50 lbs.
Min. Bend Radius/Minor Axis:	1 in.
Min. Bend/Installation:	2.400 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 ed 2.1 (2008) Class E
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/03/2009
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
Telecommunications Standards:	Category 6 - TIA 568.C.2
Other Specification:	UL Verified to Category 6

#### Applicable Patents:

Country	Patent
US	5606151
US	5734126
US	6074503
US	7663061
US	7977575

#### Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

#### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No
Suitability - Burial:	No
Sunlight Resistance:	No

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	3632

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/ft)
15.5

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Maximum Capacitance Unbalance (pF/100 m): 90

Nominal Velocity of Propagation:

<b>VP (%)</b>
72.000

Maximum Delay:

<b>Freq. (MHz)</b>	<b>Delay (ns/100 m)</b>
100.000	537.600

Typical Delay Skew:

<b>Delay Skew (ns/ft)</b>
30.000

Maximum Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/100 m)</b>
7.700

Max. Operating Voltage - UL:

<b>Voltage</b>
300 V RMS

Maximum DCR Unbalanced:

<b>DCR Unbalance @ 20°C (%)</b>
3.000

### Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
0.772	1.800	81.00	79.00	79.2	77.2		
1	2.000	79.31	77.31	77.3	75.3	20.000	27.0
4	3.700	70.28	68.28	66.6	64.6	23.000	27.0
8	5.200	65.77	63.77	60.6	58.6	24.500	27.0
10	5.800	64.31	62.31	58.5	56.5	25.000	27.0
16	7.400	61.25	59.25	53.9	51.9	25.000	27.0
20	8.300	59.8	57.80	51.5	49.5	25.000	27.0
25	9.300	58.35	56.35	49.1	47.1	25.000	26.0
31.25	10.400	56.89	54.89	46.5	44.5	25.000	25.1
62.5	15.000	52.38	50.38	37.4	35.4	25.000	22.1
100	19.300	49.31	47.31	30.0	28.0	25.000	20.0
155	24.600	46.46	44.46	21.9	19.9	22.800	18.1
200	28.300	44.80	42.80	16.5	14.5	21.600	17.0
250	32.100	43.35	41.35	11.2	9.2	20.500	16.2
300	35.600	42.16	40.16	6.5	4.5	20.100	15.2
350	38.900	41.15	39.15	2.3	0.3	19.800	14.6
400	42.000	40.28	38.28			19.500	14.0
450	45.000	39.52	37.52			18.900	13.5
500	47.900	38.83	36.83			18.400	13.0
550	50.600	38.21	36.21			18.000	12.6
600	53.300	37.64	35.64			17.500	12.2
650	55.900	37.12	35.12			17.200	11.9

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
.772			75.0	72.0
1	100 ± 12	100 ± 12	72.8	69.8
4	100 ± 12	100 ± 10.4	60.8	57.8
8	100 ± 12	100 ± 8	54.7	51.7
10	100 ± 12	100 ± 7.3	52.8	49.8
16	100 ± 12	100 ± 5.7	48.7	45.7
20	100 ± 12	100 ± 5	46.8	43.8
25	100 ± 15	100 ± 5	44.8	41.8
31.25	100 ± 15	100 ± 5	42.9	39.9
62.5	100 ± 15	100 ± 5	36.9	33.9

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100	100 ± 15	100 ± 5	32.8	29.8
155	100 ± 15	100 ± 5	28.9	25.9
200	100 ± 15	100 ± 5	26.8	23.8
250	100 ± 20	100 ± 5	24.8	21.8
300	100 ± 20	100 ± 5	23.3	20.3
350	100 ± 22	100 ± 5	21.9	18.9
400	100 ± 22	100 ± 5	20.8	17.8
450	100 ± 22	100 ± 5	19.7	16.7
500	100 ± 22	100 ± 5	18.8	15.8
550	100 ± 22	100 ± 5	18.0	15.0
600	100 ± 22	100 ± 5	17.2	14.2
650	100 ± 22	100 ± 5	16.5	13.5

Premise Cable Electrical Table 4:

Frequency (MHz)	Min. TCL (dB)	Min. ELTCTL (dB)
0.772	42.000	37.200
1.000	42.000	35.000
4.000	42.000	23.000
8.000	42.000	16.900
10.000	42.000	15.000
16.000	40.000	10.900
20.000	39.000	9.000
25.000	38.000	7.000
31.250	37.100	
62.500	34.000	
100.000	32.000	
155.000	30.100	
200.000	29.000	
250.000	28.000	

### Notes (Overall)

**Notes:** Jacket sequentially marked at 2 ft./1m intervals. Third party verified to ANSI/TIA-568-C.2 Category 6. Values above 350MHz are for engineering information only.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3633 D15A1000	1,000 FT	35.000 LB	BLUE	C	CAT6E 4PRB U/UTP CMP RIB
3633 D15U1000	1,000 FT	32.000 FT	BLUE		CAT6E 4PRB U/UTP CMP BOX
3633 D15I1000	1,000 FT	33.000 LB	BLUE	C	CAT6E 4PRB U/UTP CMP REEL
3633 002A1000	1,000 FT	35.000 LB	RED	C	CAT6E 4PRB U/UTP CMP RIB
3633 002I1000	1,000 FT	33.000 LB	RED	C	CAT6E 4PRB U/UTP CMP REEL
3633 003A1000	1,000 FT	35.000 LB	ORANGE	C	CAT6E 4PRB U/UTP CMP RIB
3633 003I1000	1,000 FT	33.000 LB	ORANGE	C	CAT6E 4PRB U/UTP CMP REEL
3633 004A1000	1,000 FT	35.000 LB	YELLOW	C	CAT6E 4PRB U/UTP CMP RIB
3633 004I1000	1,000 FT	33.000 LB	YELLOW	C	CAT6E 4PRB U/UTP CMP REEL
3633 005A1000	1,000 FT	35.000 LB	GREEN, DARK	C	CAT6E 4PRB U/UTP CMP RIB
3633 005I1000	1,000 FT	33.000 LB	GREEN, DARK	C	CAT6E 4PRB U/UTP CMP REEL
3633 008A1000	1,000 FT	35.000 LB	GRAY	C	CAT6E 4PRB U/UTP CMP RIB
3633 008U1000	1,000 FT	32.000 FT	GRAY		CAT6E 4PRB U/UTP CMP BOX
3633 008I1000	1,000 FT	33.000 LB	GRAY	C	CAT6E 4PRB U/UTP CMP REEL
3633 009A1000	1,000 FT	35.000 LB	WHITE	C	CAT6E 4PRB U/UTP CMP RIB
3633 009U1000	1,000 FT	32.000 FT	WHITE		CAT6E 4PRB U/UTP CMP BOX
3633 009I1000	1,000 FT	33.000 LB	WHITE	C	CAT6E 4PRB U/UTP CMP REEL
3633 010A1000	1,000 FT	35.000 LB	BLACK	C	CAT6E 4PRB U/UTP CMP RIB
3633 010I1000	1,000 FT	33.000 LB	BLACK	C	CAT6E 4PRB U/UTP CMP REEL

**Notes:**  
C = CRATE REEL PUT-UP.

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