

## 3624 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1

**General Description:**

CAT6+ (400MHz), 4-Pair, U/UTP-Unshielded, Zero Halogen, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, X-Spline, Ripcord, LSZH 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
Polyolefin

**Outer Shield**

Outer Shield Material:

Outer Shield Material
Unshielded

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
LSZH	0.025

Outer Jacket Diameter:

Nom. Dia. (in.)
0.250

Outer Jacket Ripcord:

Yes

**Overall Cable**

Overall Cabling Separator Material:

Patented X-Spline Center Member

Overall Nominal Diameter:

0.250 in.

**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: -30°C To +75°C

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

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius/Minor Axis: 0.750 in.

Min. Bend/Installation: 2.250 in.

## 3624 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cable

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM-LS
EU Directive 2011/65/EU (ROHS II):	Yes
Other Standards:	754-2 Acid Gas Evolution
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):	02/08/2012
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
Telecommunications Standards:	Category 6 - TIA 568.C.2
Other Specification:	UL Verified to Category 6

## Applicable Patents:

## Country

www.belden.com/p

## Flame Test

UL Flame Test:	UL1581 Vertical Tray
C(UL) Flame Test:	Limited Smoke
CSA Flame Test:	Limited Smoke
IEC Flame Test:	60332-1

## Suitability

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

## Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	3613
Non-Plenum Number:	3612

## Electrical Characteristics (Overall)

## Nom. Mutual Capacitance:

## Capacitance (pF/ft)

15.5

Maximum Capacitance Unbalance (pF/100 m):	330
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## Nominal Velocity of Propagation:

## VP (%)

70.000

## Maximum Delay:

## Freq. (MHz) Delay (ns/100 m)

100.000 537.600

## Typical Delay Skew:

## Delay Skew (ns/ft)

35.000

## Maximum Conductor DC Resistance:

## DCR @ 20°C (Ohm/100 m)

7.700

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Max. Operating Voltage - UL:

**Voltage**  
300 V RMS

Maximum DCR Unbalanced:

**DCR Unbalance @ 20°C (%)**  
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)
0.772	1.800	81.00	81.00	79.2	79.2	
1	2.000	79.3	79.3	77.3	77.3	20.000
4	3.700	70.3	70.3	66.6	66.6	23.000
8	5.200	65.8	65.8	60.6	60.6	24.500
10	5.800	64.3	64.3	58.5	58.5	25.000
16	7.400	61.2	61.2	53.9	53.9	25.000
20	8.300	59.8	59.8	51.5	51.5	25.000
25	9.300	58.4	58.4	49.1	49.1	24.300
31.25	10.400	56.9	56.9	46.5	46.5	23.600
62.5	15.000	52.4	52.4	37.4	37.4	21.500
100	19.300	49.3	49.3	30.0	30.0	20.800
155	24.600	46.5	46.5	21.8	21.8	19.500
200	28.300	44.8	44.8	16.5	16.5	18.700
250	32.100	43.3	43.3	11.2	11.2	18.000
300	35.600	42.1	42.1	6.5	6.5	17.500
350	38.900	41.1	41.1	2.3	2.3	17.000
400	42.000	38.3	38.3	-3.7	-3.7	16.600
450	45.000	37.5	37.5			16.200
500	47.900	36.8	36.8			15.900
550	50.600	36.2	36.2			15.600
600	53.300	35.6	35.6			15.400
650	55.900	35.1	35.1			15.100

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Min. ACRF (dB)	Min. PSACRF (dB)
.772		75.0	73.0
1	100 ± 15	72.8	70.8
4	100 ± 15	60.8	58.8
8	100 ± 15	54.7	52.7
10	100 ± 15	52.8	50.8
16	100 ± 15	48.7	46.7
20	100 ± 15	46.8	44.8
25	100 ± 15	44.8	42.8
31.25	100 ± 15	42.9	40.9
62.5	100 ± 15	36.9	34.9
100	100 ± 15	32.8	30.8
155	100 ± 22	28.9	26.9
200	100 ± 22	26.8	24.8
250	100 ± 32	24.8	22.8
300	100 ± 32	23.3	21.3
350	100 ± 32	21.9	19.9
400	100 ± 32	20.8	18.8
450	100 ± 32	19.7	17.7
500	100 ± 32	18.8	16.8
550	100 ± 32	18.0	16.0
600	100 ± 32	17.2	15.2
650	100 ± 32	16.5	14.5

Premise Cable Electrical Table 4:

Frequency (MHz)	Min. TCL (dB)	Min. ELTCTL (dB)
0.772	40.000	37.200
1.000	40.000	35.000
4.000	40.000	23.000
8.000	40.000	16.900
10.000	40.000	15.000
16.000	38.000	10.900
20.000	37.000	9.000
25.000	36.000	7.000

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31.250	35.100	
62.500	32.000	
100.000	30.000	
155.000	28.100	
200.000	27.000	
250.000	26.000	

**Notes (Overall)**

**Notes:** Jacket sequentially marked at 2 ft/1m. intervals. Third party verified to ANSI/TIA-568-C.2 Category 6. Values above 400 MHz are for engineering information only.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3624 006A1000	1,000 FT	33.000 LB	BLUE, LIGHT		CAT6E 4PR U/UTP LSZH RIB
3624 007A1000	1,000 FT	33.000 LB	VIOLET		CAT6E 4PR U/UTP LSZH RIB
3624 009A1000	1,000 FT	33.000 LB	WHITE		CAT6E 4PR U/UTP LSZH RIB

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