

4812 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cable



For more Information
please call

1-800-Belden1

**General Description:**

CAT6+ (600MHz), 4-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, X Spline, Ripcord, 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
PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.255

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

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 31 lbs/1000 ft.

Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius/Minor Axis: 1 in.

Min. Bend/Installation: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

4812 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cable

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR
EU Directive 2011/65/EU (ROHS II):	Yes
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):	01/01/2004
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:	UL1666 Vertical Riser
C(UL) Flame Test:	FT4
CSA Flame Test:	FT4

Suitability

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

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	4813

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15.500

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Velocity of Propagation:

VP (%)
68.000

Maximum Delay:

Delay (ns/100 m)
538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)
25.000

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
6.600

Max. Operating Voltage - UL:

Voltage
300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
3

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)

4812 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cable

0.772	1.700	83	82	81.3	80.3	
1	1.900	81.3	80.3	79.4	78.4	20.000
4	3.500	72.3	71.3	68.8	67.8	23.000
8	4.900	67.8	66.8	62.8	61.8	24.500
10	5.500	66.3	65.3	60.8	59.8	25.000
16	7.000	63.2	62.2	56.3	55.3	25.000
20	7.800	61.8	60.8	54.0	53.0	25.000
25	8.700	60.3	59.3	51.6	50.6	25.000
31.25	9.800	58.9	57.9	49.1	48.1	24.300
62.5	14.100	54.4	53.4	40.3	39.3	22.200
100	18.000	51.3	50.3	33.3	32.3	20.800
155	22.700	48.4	47.4	24.8	23.8	19.500
200	26.200	46.8	45.8	20.6	19.6	18.700
250	29.600	45.3	44.3	15.8	14.8	18.000
300	32.700	44.1	43.1	11.4	10.4	17.500
350	35.600	43.1	42.1	7.5	6.5	17.000
400	38.400	42.3	41.3	3.9	2.9	16.600
450	41.000	41.5	40.5	0.5	-0.5	16.200
500	43.600	40.8	39.8	-2.8	-3.8	15.900
550	46.000	40.2	39.2	-5.8	-6.8	12.900
600	48.400	39.6	38.6	-8.7	-9.7	12.700

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
0.772		102 ± 15	77.0	75.0
1	100 ± 15	100 ± 15	74.8	72.8
4	100 ± 15	100 ± 15	62.8	60.8
8	100 ± 15	100 ± 15	56.7	54.7
10	100 ± 15	100 ± 15	54.8	52.8
16	100 ± 15	100 ± 15	50.7	48.7
20	100 ± 15	100 ± 15	48.8	46.8
25	100 ± 15	100 ± 15	46.8	44.8
31.25	100 ± 15	100 ± 15	44.9	42.9
62.5	100 ± 15	100 ± 15	38.9	36.9
100	100 ± 15	100 ± 15	34.8	32.8
155	100 ± 22	100 ± 15	31.0	29.0
200	100 ± 22	100 ± 15	28.8	26.8
250	100 ± 32	100 ± 15	26.8	24.8
300	100 ± 32	100 ± 15	25.3	23.3
350	100 ± 32	100 ± 15	23.9	21.9
400	100 ± 32	100 ± 15	22.8	20.8
450	100 ± 32	100 ± 15	21.7	19.7
500	100 ± 32	100 ± 15	20.8	18.8
550	100 ± 32	100 ± 15	20.0	18.0
600	100 ± 32	100 ± 15	19.2	17.2

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
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: Belden IBDN. Jacket sequentially marked at 2 ft./1m intervals. Values above 600 MHz are for Engineering Information Only. Third party verified to ANSI/TIA-568-C.2, Category 6.

Reference (Overall)

4812 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cable

Previous Part Number:

 24586685, 24586685+US, 24586785, 24586785+US, 25086885, 25086885+US, 24586985,
 24586985+US, 24586956, 24586956+US, 24586915, 24586915+US, 24586185, 24586385,
 24586385+US, 24586315, 24586315+US, 24586451+US
Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
4812 0021000	1,000 FT	31.000 LB	RED		CAT6E+ 4PR U/UTP CMR REEL
4812 0041000	1,000 FT	31.000 LB	YELLOW		CAT6E+ 4PR U/UTP CMR REEL
4812 0051000	1,000 FT	31.000 LB	GREEN, DARK		CAT6E+ 4PR U/UTP CMR REEL
4812 006A1000	1,000 FT	31.000 LB	BLUE, LIGHT		CAT6E+ 4PR U/UTP CMR RIB
4812 0061000	1,000 FT	31.000 LB	BLUE, LIGHT		CAT6E+ 4PR U/UTP CMR REEL
4812 0062500	2,500 FT	82.500 LB	BLUE, LIGHT		CAT6E+ 4PR U/UTP CMR REEL
4812 0081000	1,000 FT	31.000 LB	GRAY		CAT6E+ 4PR U/UTP CMR REEL
4812 009A1000	1,000 FT	31.000 LB	WHITE		CAT6E+ 4PR U/UTP CMR RIB
4812 0091000	1,000 FT	31.000 LB	WHITE		CAT6E+ 4PR U/UTP CMR REEL
4812 0103000	3,000 FT	102.000 LB	BLACK		CAT6E+ 4PR U/UTP CMR REEL

Revision Number: 13 Revision Date: 02-27-2014

 © 2014 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9