

2412 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables



For more Information
please call

1-800-Belden1

**General Description:**

CAT6+ (350MHz), 4-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Tape Separator, Ripcord, PVC Jacket

Usage (Overall)

Suitable Applications: Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM

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. (mm)
5.588

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Separator Material: Patented Dielectric Tape

Overall Nominal Diameter: 5.588 mm

Pair**Pair Color Code Chart:**

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

Mechanical Characteristics (Overall)

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

2412 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables

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

Operating Temperature Range:	0°C To +75°C
------------------------------	--------------

Bulk Cable Weight:	35.717 Kg/Km
--------------------	--------------

Max. Recommended Pulling Tension:	177.928 N
-----------------------------------	-----------

Min. Bend Radius/Minor Axis:	19.050 mm
------------------------------	-----------

Min. Bend/Installation:	57.150 mm
-------------------------	-----------

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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
-----------------------------------	-----

MII Order #39 (China RoHS):	Yes
-----------------------------	-----

Telecommunications Standards:	Category 6 - TIA 568.C.2
-------------------------------	--------------------------

Other Specification:	Third party verified to Category 6
----------------------	------------------------------------

Applicable Patents:

Country	Patent
US	6570095
US	6998537
US	7179999
US	7977575

Flame Test

UL Flame Test:	UL1666 Vertical Riser
----------------	-----------------------

C(UL) Flame Test:	FT4
-------------------	-----

CSA Flame Test:	FT4
-----------------	-----

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Plenum Number:	2413
----------------	------

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)
55.777

Maximum Capacitance Unbalance (pF/100 m):	330
---	-----

Nominal Velocity of Propagation:

VP (%)
70

Maximum Delay:

Delay (ns/100 m)

2412 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables

537 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)
35.000

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
7.800

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)
1	2.000	75.3	75.3	73.3	73.3	20.000
4	3.700	66.3	66.3	62.6	62.6	23.000
8	5.200	61.8	61.8	56.6	56.6	24.500
10	5.800	60.3	60.3	54.5	54.5	25.000
16	7.400	57.2	57.2	49.9	49.9	25.000
20	8.300	55.8	55.8	47.5	47.5	25.000
25	9.300	54.3	54.3	45.1	45.1	24.300
31.25	10.400	52.9	52.9	42.5	42.5	23.600
62.5	15.000	48.4	48.4	33.4	33.4	21.500
100	19.300	45.3	45.3	26.0	26.0	20.800
155	24.600	42.4	42.4	17.9	17.9	19.500
200	28.300	40.8	40.8	12.5	12.5	18.700
250	32.100	39.3	39.3	7.2	7.2	18.000
300	35.600	38.1	36.1	0.5	0.5	17.500
350	38.900	37.1	35.1	-1.7	-3.7	17.000
400	42.000	36.3	34.3	-5.7	-7.7	16.600
450	45.000	35.5	33.5	-9.5	-11.5	16.200
500	47.900	34.8	32.8	-13.0	-15.0	15.900
550	50.600	34.2	32.2	-16.4	-18.4	15.600

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
1	100 ± 15	102 ± 15	70.8	67.8
4	100 ± 15	100 ± 15	58.8	55.8
8	100 ± 15	100 ± 15	52.7	49.7
10	100 ± 15	100 ± 15	50.8	47.8
16	100 ± 15	100 ± 15	46.7	43.7
20	100 ± 15	100 ± 15	44.8	41.8
25	100 ± 15	100 ± 15	42.8	39.8
31.25	100 ± 15	100 ± 15	40.9	37.9
62.5	100 ± 15	100 ± 15	34.9	31.9
100	100 ± 15	100 ± 15	30.8	27.8
155	100 ± 22	100 ± 15	27.0	24.0
200	100 ± 22	100 ± 15	24.8	21.8
250	100 ± 32	100 ± 15	22.8	19.8
300	100 ± 32	100 ± 15	21.3	18.3
350	100 ± 32	100 ± 15	19.9	16.9
400	100 ± 32	100 ± 15	18.8	15.8
450	100 ± 32	100 ± 15	17.7	14.7
500	100 ± 32	100 ± 15	16.8	13.8
550	100 ± 32	100 ± 15	16.0	13.0

2412 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft./1m intervals. Third party verified to ANSI/TIA-568-C.2, Category 6. Values above 350 MHz are for Engineering Information Only. In addition to the colors below, Pink is also available as a special, p/n 2412 012 U1000, or 2412 012 A1000.

Reference (Overall)

Previous Part Number:

24566415, 25066515T, 24566745, 24566745T, 24566745T+HU, 24566736T, 24566715, 24566715T, 25066885, 25066885T, 25066815T, 24566945, 24566945T, 24566945T+HU, 24566931, 24566931T, 24566931T+HU, 24566936T, 24566915, 24566915T, 24566915T+HU, 24566015, 24566015T, 24566P15, 24566P15T, 24566185, 24566185T, 24566185T+HU, 24566115T, 24566345, 24566345T, 24566345T+HU, 24566336T, 24566315, 24566315T, 24566315T+HU, 24566485, 24566485T, 24566415T, 24566415T

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2412 002A1000	305 MT	12.247 KG	RED	C	CAT6+ 4PR U/UTP CMR RIB
2412 003A1000	305 MT	12.247 KG	ORANGE		CAT6+ 4PR U/UTP CMR RIB
2412 003U1000	305 MT	10.886 KG	ORANGE		CAT6+ 4PR U/UTP CMR BOX
2412 004A1000	305 MT	12.247 KG	YELLOW		CAT6+ 4PR U/UTP CMR RIB
2412 004U1000	305 MT	10.886 KG	YELLOW		CAT6+ 4PR U/UTP CMR BOX
2412 004I1000	305 MT	11.340 KG	YELLOW		CAT6+ 4PR U/UTP CMR REEL
2412 0042500	762 MT	28.350 KG	YELLOW		CAT6+ 4PR U/UTP CMR REEL
2412 005A1000	305 MT	12.247 KG	GREEN, DARK		CAT6+ 4PR U/UTP CMR RIB
2412 005U1000	305 MT	10.886 KG	GREEN, DARK		CAT6+ 4PR U/UTP CMR BOX
2412 005I1000	305 MT	11.340 KG	GREEN, DARK		CAT6+ 4PR U/UTP CMR REEL
2412 006A1000	305 MT	12.247 KG	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR RIB
2412 006U1000	305 MT	10.886 KG	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR BOX
2412 006I1000	305 MT	11.340 KG	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR REEL
2412 0061400	427 MT	15.876 KG	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR REEL
2412 0062500	762 MT	28.350 KG	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR REEL
2412 0065000	1,524 MT	56.699 KG	BLUE, LIGHT	C	CAT6+ 4PR U/UTP CMR REEL
2412 007A1000	305 MT	12.247 KG	VIOLET		CAT6+ 4PR U/UTP CMR RIB
2412 007U1000	305 MT	10.886 KG	VIOLET		CAT6+ 4PR U/UTP CMR BOX
2412 008A1000	305 MT	12.247 KG	GRAY		CAT6+ 4PR U/UTP CMR RIB
2412 008U1000	305 MT	10.886 KG	GRAY		CAT6+ 4PR U/UTP CMR BOX
2412 008I1000	305 MT	11.340 KG	GRAY		CAT6+ 4PR U/UTP CMR REEL
2412 009A1000	305 MT	12.247 KG	WHITE		CAT6+ 4PR U/UTP CMR RIB
2412 009U1000	305 MT	10.886 KG	WHITE		CAT6+ 4PR U/UTP CMR BOX
2412 009I1000	305 MT	11.340 KG	WHITE		CAT6+ 4PR U/UTP CMR REEL
2412 0092500	762 MT	28.350 KG	WHITE		CAT6+ 4PR U/UTP CMR REEL
2412 0095000	1,524 MT	56.699 KG	WHITE	C	CAT6+ 4PR U/UTP CMR REEL
2412 010A1000	305 MT	12.247 KG	BLACK		CAT6+ 4PR U/UTP CMR RIB
2412 010U1000	305 MT	10.886 KG	BLACK		CAT6+ 4PR U/UTP CMR BOX
2412 010I1000	305 MT	11.340 KG	BLACK		CAT6+ 4PR U/UTP CMR REEL

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 01-07-2014

© 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.

2412 Multi-Conductor - Enhanced Category 6 Nonbonded-Pair Cables

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