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**2412**



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

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

**For more Information  
Please call**

**1-800-Belden1**



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**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2412 002A1000	1,000 FT	27.000 LB	RED	C	CAT6+ 4PR U/UTP CMR RIB
2412 003A1000	1,000 FT	27.000 LB	ORANGE		CAT6+ 4PR U/UTP CMR RIB
2412 003U1000	1,000 FT	24.000 LB	ORANGE		CAT6+ 4PR U/UTP CMR BOX
2412 004A1000	1,000 FT	27.000 LB	YELLOW		CAT6+ 4PR U/UTP CMR RIB
2412 004U1000	1,000 FT	24.000 LB	YELLOW		CAT6+ 4PR U/UTP CMR BOX
2412 0041000	1,000 FT	24.000 LB	YELLOW		CAT6+ 4PR U/UTP CMR REEL
2412 0042500	2,500 FT	60.000 LB	YELLOW		CAT6+ 4PR U/UTP CMR REEL
2412 005A1000	1,000 FT	27.000 LB	GREEN, DARK		CAT6+ 4PR U/UTP CMR RIB
2412 005U1000	1,000 FT	24.000 LB	GREEN, DARK		CAT6+ 4PR U/UTP CMR BOX
2412 0051000	1,000 FT	24.000 EA	GREEN, DARK		CAT6+ 4PR U/UTP CMR REEL
2412 006A1000	1,000 FT	27.000 LB	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR RIB
2412 006U1000	1,000 FT	24.000 LB	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR BOX
2412 0061000	1,000 FT	24.000 EA	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR REEL
2412 0061400	1,400 FT	35.000 LB	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR REEL
2412 0062500	2,500 FT	60.000 LB	BLUE, LIGHT		CAT6+ 4PR U/UTP CMR REEL
2412 0065000	5,000 FT	125.000 LB	BLUE, LIGHT	C	CAT6+ 4PR U/UTP CMR REEL
2412 007A1000	1,000 FT	27.000 LB	VIOLET		CAT6+ 4PR U/UTP CMR RIB
2412 007U1000	1,000 FT	24.000 LB	VIOLET		CAT6+ 4PR U/UTP CMR BOX

2412 008A1000	1,000 FT	27.000 LB	GRAY		CAT6+ 4PR U/UTP CMR RIB
2412 008U1000	1,000 FT	24.000 LB	GRAY		CAT6+ 4PR U/UTP CMR BOX
2412 0081000	1,000 FT	24.000 EA	GRAY		CAT6+ 4PR U/UTP CMR REEL
2412 009A1000	1,000 FT	27.000 LB	WHITE		CAT6+ 4PR U/UTP CMR RIB
2412 009U1000	1,000 FT	24.000 LB	WHITE		CAT6+ 4PR U/UTP CMR BOX
2412 0091000	1,000 FT	24.000 EA	WHITE		CAT6+ 4PR U/UTP CMR REEL
2412 0092500	2,500 FT	60.000 LB	WHITE		CAT6+ 4PR U/UTP CMR REEL
2412 0095000	5,000 FT	125.000 LB	WHITE	C	CAT6+ 4PR U/UTP CMR REEL
2412 010A1000	1,000 FT	27.000 LB	BLACK		CAT6+ 4PR U/UTP CMR RIB
2412 010U1000	1,000 FT	24.000 LB	BLACK		CAT6+ 4PR U/UTP CMR BOX
2412 0101000	1,000 FT	24.000 EA	BLACK		CAT6+ 4PR U/UTP CMR REEL

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

## 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. (in.)
0.223

**Outer Jacket Ripcord:**

Yes

## Overall Cable

<b>Overall Cabling Separator Material:</b>	Patented Dielectric Tape
<b>Overall Nominal Diameter:</b>	0.220 in.

## 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)

<b>Storage Temperature Range:</b>	-20°C To +75°C
<b>Installation Temperature Range:</b>	+5°C To +50°C
<b>Operating Temperature Range:</b>	0°C To +75°C
<b>Bulk Cable Weight:</b>	24 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	40 lbs.
<b>Min. Bend Radius/Minor Axis:</b>	0.750 in.
<b>Min. Bend/Installation:</b>	2.250 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMR
<b>CEC/C(UL) Specification:</b>	CMR
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2004
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>Telecommunications Standards:</b>	Category 6 - TIA 568.C.2
<b>ANSI Specification:</b>	ANSI/NEMA WC-66, ANSI/ICEA S-90-661, ANSI/UL 444
<b>Other Specification:</b>	Third party verified to Category 6

### Applicable Patents:

<b>Country</b>
<a href="http://www.belden.com/p">www.belden.com/p</a>

## 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/ft)

17.000

Maximum Capacitance Unbalance (pF/100 m): 330

#### Nominal Velocity of Propagation:

VP (%)

70

#### Maximum Delay:

Delay (ns/100 m)

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	2.5	0.5	17.500
350	38.900	37.1	35.1	-1.8	-3.8	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	-13.1	-15.1	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

### 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 Informaton 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

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