

## 1212 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1



### Description:

24 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Twisted Pairs, Rip Cord, 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 Video, RS-422

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	24	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)
5.334

**Outer Jacket Ripcord:** Yes

#### 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)

**Operating Temperature Range:** -20°C To +80°C

**Bulk Cable Weight:** 31.252 Kg/Km

**Max. Recommended Pulling Tension:** 155.687 N

**Min. Bend Radius/Minor Axis:** 22.860 mm

## 1212 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable

Min. Bend/Installation:	53.340 mm
-------------------------	-----------

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
NEC Articles:	800
CEC/C(UL) Specification:	CMR
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 5e - TIA 568.C.2
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e

#### Flame Test

UL Flame Test:	UL1666 Riser, UL1685 FT4/IEEE 1202 Vertical Tray Flame Test
CSA Flame Test:	FT4

#### Suitability

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

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1213

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

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

#### Nominal Velocity of Propagation:

VP (%)
70

#### Maximum Delay:

Delay (ns/100 m)
510.000

#### Max. Delay Skew:

Delay Skew (ns/100 m)
25

#### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
------------------------

METRIC MEASUREMENT VERSION

## 1212 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable

8.900

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)
0.772	1.800	72	70	72.2	68.2	
1	2.000	70.3	68.3	70.3	66.3	20.000
4	4.000	61.3	59.3	59.3	55.3	23.000
8	5.700	56.8	54.8	53.1	49.1	24.500
10	6.400	55.3	53.3	50.9	46.9	25.000
16	8.100	52.2	50.2	46.1	42.1	25.000
20	9.100	50.8	48.8	43.7	39.7	25.000
25	10.200	49.3	47.3	41.1	37.1	24.300
31.25	11.400	47.9	45.9	38.5	34.5	23.600
62.5	16.400	43.4	41.4	29.0	25.0	21.500
100	21.000	40.3	38.3	21.3	17.3	20.100
155	26.600	37.4	35.4	12.8	8.9	18.800
200	30.500	35.8	33.8	7.3	3.3	18.000
250	34.400	34.3	32.3	1.9		17.300
300	38.000	33.1	28.2			14.400
350	41.400	32.1	27.2			13.800
400	44.600	31.3	26.3			13.300

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	67.8	64.8
4	100 ± 15	100 ± 15	55.8	52.8
8	100 ± 15	100 ± 15	49.7	46.7
10	100 ± 15	100 ± 15	47.8	44.8
16	100 ± 15	100 ± 15	43.7	40.7
20	100 ± 15	100 ± 15	41.8	38.8
25	100 ± 15	100 ± 15	39.8	36.8
31.25	100 ± 15	100 ± 15	37.9	34.9
62.5	100 ± 15	100 ± 15	31.9	28.9
100	100 ± 15	100 ± 15	27.8	24.8
155	100 ± 22	100 ± 15	24.0	21.0
200	100 ± 22	100 ± 15	21.8	18.8
250	100 ± 32	100 ± 15	19.8	16.8
300	100 ± 32	100 ± 15	18.2	15.2
350	100 ± 32	100 ± 15	16.9	13.9
400	100 ± 32	100 ± 15		

### Notes (Overall)

**Notes:** Jacket sequentially marked at 2 ft./1m intervals. Third party verified to ANSI/TIA-568-C.2, Category 5e. Values above 350 MHz are for Engineering Information Only. .

### Reference (Overall)

**Previous Part Number:** 24570179, 24596505, 24570464, 24570464+HU, 24596805, 24570469, 24570161, 24570161+HU, 24570186, 24570186+HU, 24570460, 24570166, 24570166+HU, 24570181

### Put Ups and Colors:

## METRIC MEASUREMENT VERSION

## 1212 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1212 003U1000	305 MT	9.525 KG	ORANGE		CAT5E+ 4PR U/UTP CMR BOX
1212 004U1000	305 MT	9.525 KG	YELLOW		CAT5E+ 4PR U/UTP CMR BOX
1212 0041000	305 MT	10.433 KG	YELLOW	C	CAT5E+ 4PR U/UTP CMR REEL
1212 005U1000	305 MT	9.525 KG	GREEN, DARK		CAT5E+ 4PR U/UTP CMR BOX
1212 006U1000	305 MT	9.525 KG	BLUE, LIGHT		CAT5E+ 4PR U/UTP CMR BOX
1212 0061000	305 MT	10.433 KG	BLUE, LIGHT	C	CAT5E+ 4PR U/UTP CMR REEL
1212 0062500	762 MT	23.814 KG	BLUE, LIGHT		CAT5E+ 4PR U/UTP CMR REEL
1212 008U1000	305 MT	9.525 KG	GRAY		CAT5E+ 4PR U/UTP CMR BOX
1212 009U1000	305 MT	9.525 KG	WHITE		CAT5E+ 4PR U/UTP CMR BOX
1212 0091000	305 MT	10.433 KG	WHITE		CAT5E+ 4PR U/UTP CMR REEL
1212 010U1000	305 MT	9.525 KG	BLACK		CAT5E+ 4PR U/UTP CMR BOX

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 7    Revision Date: 11-05-2012

© 2012 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.