

## 1213 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

CAT5e+ (350MHz), 4-Pair, U/UTP-Unshielded, Plenum-CMP, Premise Horizontal Cable, 24 AWG Solid Bare Copper Conductors, Dual FRPO/FEP Insulation, Ripcord, Flamarrest® Jacket

### Usage (Overall)

**Suitable Applications:** Premise Horizontal Cable, Gigabit Ethernet, POE, POE+, 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
FRPO/FEP - Flame Retardant Polyolefin/Fluorinated Ethylene Propylene

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.205

**Outer Jacket Ripcord:** Yes

#### Overall Cable

**Overall Nominal Diameter:** 0.205 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)

<b>Installation Temperature Range:</b>	+5°C To +50°C
<b>Operating Temperature Range:</b>	-20°C To +75°C
<b>Bulk Cable Weight:</b>	24 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	35 lbs.
<b>Min. Bend Radius/Minor Axis:</b>	0.750 in.
<b>Min. Bend/Installation:</b>	2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**NEC(UL) Specification:** CMP

## 1213 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable

NEC Articles:	800
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
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):	01/01/2005
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

Applicable Patents:

Country

www.belden.com/p

### Flame Test

UL Flame Test:	NFPA 262 Plenum Flame Test (UL910)(FT6)
C(UL) Flame Test:	FT6
CSA Flame Test:	FT6

### Suitability

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

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	1212

## Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

15

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Velocity of Propagation:

VP (%)

72.000

Maximum Delay:

Delay (ns/100 m)

510

Max. Delay Skew:

Delay Skew (ns/100 m)

25

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

8.900

Max. Operating Voltage - UL:

Voltage

300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

3

## 1213 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable

### 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	70.3	69.3	68.3	67.3	20.000
4	4.000	61.3	60.3	57.3	56.3	23.000
8	5.700	56.8	55.8	51.1	50.1	24.500
10	6.400	55.3	54.3	48.9	47.9	25.000
16	8.100	52.2	51.2	44.1	43.1	25.000
20	9.100	50.8	49.8	41.7	40.7	25.000
25	10.200	49.3	48.3	39.1	38.1	24.300
31.25	11.400	47.9	46.9	36.4	35.4	23.600
62.5	16.700	43.4	42.4	27.0	26.0	21.500
100	21.000	40.3	39.3	19.3	18.3	20.100
155	26.600	37.4	36.4	10.9	9.9	18.800
200	30.500	35.8	34.8	5.3	4.3	18.000
250	34.400	34.3	33.3	-0.1	-1.1	17.300
300	38.000	33.1	32.1			14.400
350	41.400	32.1	31.1			13.800
400	44.600	31.3	30.3			13.300
450	47.700	30.5	29.5			12.800

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ACRF (dB)	Min. PSACRF (dB)
1	100 ± 15	100 ± 15	67.8	65.8
4	100 ± 15	100 ± 15	55.8	53.8
8	100 ± 15	100 ± 15	49.7	47.7
10	100 ± 15	100 ± 15	47.8	45.8
16	100 ± 15	100 ± 15	43.7	41.7
20	100 ± 15	100 ± 15	41.8	39.8
25	100 ± 15	100 ± 15	39.8	37.8
31.25	100 ± 15	100 ± 15	37.9	35.9
62.5	100 ± 15	100 ± 15	31.9	29.9
100	100 ± 15	100 ± 15	27.8	25.8
155	100 ± 22	100 ± 15	24.0	22.0
200	100 ± 22	100 ± 15	21.8	19.8
250	100 ± 22	100 ± 15	19.8	17.8
300	100 ± 32	100 ± 15	18.3	16.3
350	100 ± 32	100 ± 15	16.9	14.9
400	100 ± 32	100 ± 15	15.8	13.8
450	100 ± 32	100 ± 15	14.7	12.7

### 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:

24570808, 24597505, 24570835, 24597805, 24577005, 24570845, 24570942, 24570810, 24570840, 24570830, 24570812, 24570944, 24570800

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1213 D15A1000	1,000 FT	25.000 LB	BLUE	C	CAT5E+ 4PR U/UTP CMP RIB
1213 D15U1000	1,000 FT	23.000 LB	BLUE		CAT5E+ 4PR U/UTP CMP BOX
1213 D151000	1,000 FT	24.000 LB	BLUE		CAT5E+ 4PR U/UTP CMP REEL
1213 D152500	2,500 FT	57.500 LB	BLUE		CAT5E+ 4PR U/UTP CMP REEL
1213 003U1000	1,000 FT	23.000 LB	ORANGE		CAT5E+ 4PR U/UTP CMP BOX
1213 004U1000	1,000 FT	23.000 LB	YELLOW		CAT5E+ 4PR U/UTP CMP BOX
1213 005U1000	1,000 FT	23.000 LB	GREEN, DARK		CAT5E+ 4PR U/UTP CMP BOX
1213 007U1000	1,000 FT	23.000 LB	VIOLET		CAT5E+ 4PR U/UTP CMP BOX
1213 008U1000	1,000 FT	23.000 LB	GRAY		CAT5E+ 4PR U/UTP CMP BOX
1213 009A1000	1,000 FT	26.000 LB	WHITE	C	CAT5E+ 4PR U/UTP CMP RIB
1213 009U1000	1,000 FT	23.000 LB	WHITE		CAT5E+ 4PR U/UTP CMP BOX
1213 0091000	1,000 FT	24.000 LB	WHITE	C	CAT5E+ 4PR U/UTP CMP REEL
1213 010U1000	1,000 FT	23.000 LB	BLACK		CAT5E+ 4PR U/UTP CMP BOX
1213 012U1000	1,000 FT	23.000 LB	PINK		CAT5E+ 4PR U/UTP CMP BOX

Notes:

C = CRATE REEL PUT-UP.

## 1213 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable

Revision Number: 10    Revision Date: 06-09-2016

© 2017 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 2014/35/EU).