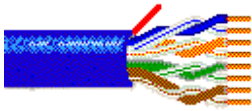


## 1213 Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable



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, Flammarrest® 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
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
Flammarrest®	LS PVC - Low Smoke Polyvinyl Chloride

**Outer Jacket Diameter:**

Nom. Dia. (mm)
5.207

**Outer Jacket Ripcord:** Yes

#### Overall Cable

**Overall Nominal Diameter:** 5.207 mm

#### 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)

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

**Operating Temperature Range:** -20°C To +75°C

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

<b>Bulk Cable Weight:</b>	35.717 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	155.687 N
<b>Min. Bend Radius/Minor Axis:</b>	19.050 mm
<b>Min. Bend/Installation:</b>	50.800 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMP
<b>NEC Articles:</b>	800
<b>CEC/C(UL) Specification:</b>	CMP
<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>	01/01/2005
<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 5e - TIA 568.C.2
<b>Other Specification:</b>	NEMA WC-63.1 Category 5e

#### Applicable Patents:

Country	Patent
US	5563377
CANADA	2144694

#### Flame Test

<b>UL Flame Test:</b>	NFPA 262 Plenum Flame Test (UL910)(FT6)
<b>C(UL) Flame Test:</b>	FT6
<b>CSA Flame Test:</b>	FT6

#### Suitability

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	No
<b>Suitability - Aerial:</b>	No
<b>Suitability - Burial:</b>	No
<b>Sunlight Resistance:</b>	No
<b>Oil Resistance:</b>	No
<b>Non-halogenated:</b>	No

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

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

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

### 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

## METRIC MEASUREMENT VERSION

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

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	305 MT	11.793 KG	BLUE	C	CAT5E+ 4PR U/UTP CMP RIB
1213 D15U1000	305 MT	10.433 KG	BLUE		CAT5E+ 4PR U/UTP CMP BOX
1213 D151000	305 MT	11.340 KG	BLUE		CAT5E+ 4PR U/UTP CMP REEL
1213 D152500	762 MT	26.082 KG	BLUE		CAT5E+ 4PR U/UTP CMP REEL
1213 003U1000	305 MT	10.433 KG	ORANGE		CAT5E+ 4PR U/UTP CMP BOX
1213 004U1000	305 MT	10.433 KG	YELLOW		CAT5E+ 4PR U/UTP CMP BOX
1213 005U1000	305 MT	10.433 KG	GREEN, DARK		CAT5E+ 4PR U/UTP CMP BOX
1213 007U1000	305 MT	10.433 KG	VIOLET		CAT5E+ 4PR U/UTP CMP BOX
1213 008U1000	305 MT	10.433 KG	GRAY		CAT5E+ 4PR U/UTP CMP BOX
1213 009A1000	305 MT	11.793 KG	WHITE	C	CAT5E+ 4PR U/UTP CMP RIB
1213 009U1000	305 MT	10.433 KG	WHITE		CAT5E+ 4PR U/UTP CMP BOX
1213 0091000	305 MT	11.340 KG	WHITE	C	CAT5E+ 4PR U/UTP CMP REEL
1213 010U1000	305 MT	10.433 KG	BLACK		CAT5E+ 4PR U/UTP CMP BOX
1213 012U1000	305 MT	10.433 KG	PINK		CAT5E+ 4PR U/UTP CMP BOX

## Notes:

C = CRATE REEL PUT-UP.

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