

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. (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

Bulk Cable Weight: 35.717 Kg/Km

Max. Recommended Pulling Tension: 155.687 N

Min. Bend Radius/Minor Axis: 19.050 mm

Min. Bend/Installation: 50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC(UL) Specification:

CMP

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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/m)

49.215

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

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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.

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