

## 1212 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, Riser-CMR, Premise Horizontal Cable, 24 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Ripcord, 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. (in.)
0.210

**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:** 21 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 35 lbs.

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

Min. Bend Radius/Minor Axis: 0.900 in.

Min. Bend/Installation: 2.100 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

NEC Articles: 800

CEC/C(UL) Specification: CMR

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): 01/01/2004

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/ft)

15

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

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

**Maximum Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/100 m)</b>
8.900

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Maximum DCR Unbalanced:**

<b>DCR Unbalance @ 20°C (%)</b>
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

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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1212 003U1000	1,000 FT	21.000 LB	ORANGE		CAT5E+ 4PR U/UTP CMR BOX
1212 004U1000	1,000 FT	21.000 LB	YELLOW		CAT5E+ 4PR U/UTP CMR BOX
1212 0041000	1,000 FT	23.000 LB	YELLOW	C	CAT5E+ 4PR U/UTP CMR REEL
1212 005U1000	1,000 FT	21.000 LB	GREEN, DARK		CAT5E+ 4PR U/UTP CMR BOX
1212 006U1000	1,000 FT	21.000 LB	BLUE, LIGHT		CAT5E+ 4PR U/UTP CMR BOX
1212 0061000	1,000 FT	23.000 LB	BLUE, LIGHT	C	CAT5E+ 4PR U/UTP CMR REEL
1212 0062500	2,500 FT	52.500 LB	BLUE, LIGHT		CAT5E+ 4PR U/UTP CMR REEL
1212 008U1000	1,000 FT	21.000 LB	GRAY		CAT5E+ 4PR U/UTP CMR BOX
1212 009U1000	1,000 FT	21.000 LB	WHITE		CAT5E+ 4PR U/UTP CMR BOX
1212 0091000	1,000 FT	23.000 LB	WHITE		CAT5E+ 4PR U/UTP CMR REEL
1212 010U1000	1,000 FT	21.000 LB	BLACK		CAT5E+ 4PR U/UTP CMR BOX

**Notes:**

C = CRATE REEL PUT-UP.

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