Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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.)
0.205

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)

Operating Temperature Range:	-20°C To +80°C
Bulk Cable Weight:	21 lbs/1000 ft.
Max. Recommended Pulling Tension:	35 lbs.
Min. Bend Radius/Minor Axis:	0.750 in.
Min. Bend/Installation:	2 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

Applicable Patents:

Country
www.belden.com/p

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

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	16.400	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 ± 32	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: 24570179, 24596505, 24570464, 24570464+HU, 24596805, 24570469, 24570161, 24570161+HU, 24570186, 24570186+HU, 24570460, 24570166, 24570166+HU, 24570181

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.

Revision Number: 8 Revision Date: 02-27-2014

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