

AV5EUR Multi-Conductor - Enhanced Category 5E Nonbonded-Pair Cable

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For more Information
please call

1-800-Belden1



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.)
0.206

Outer Jacket Ripcord

Yes

Overall Cable:

Overall Nominal Diameter:

0.206 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

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Bulk Cable Weight:	21 lbs/1000 ft.
Max. Recommended Pulling Tension:	35 lbs.
Min. Bend/Installation:	2.250 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 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	AV5EUP

Electrical Characteristics (Overall):

Nom. Mutual Capacitance

Capacitance (pF/ft)
15.000

Maximum Capacitance Unbalance (pF/100 m)	330
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Nominal Velocity of Propagation

VP (%)
70.000

Maximum Delay

Delay (ns/100 m)
510.000

Max. Delay Skew

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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 (%)

3.000

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	70.300	69.300	68.300	67.300	20.000
4	4.000	61.300	60.300	57.300	56.300	23.000
8	5.700	56.800	55.800	51.100	50.100	24.500
10	6.400	55.300	54.300	48.900	47.900	25.000
16	8.100	52.200	51.200	44.100	43.100	25.000
20	9.100	50.800	49.800	41.700	40.700	25.000
25	10.200	49.300	48.300	39.100	38.100	24.300
31.250	11.400	47.900	46.900	36.400	35.400	23.600
62.500	16.400	43.400	42.400	27.000	26.000	21.500
100	21.000	40.300	39.300	19.300	18.300	20.100
155	26.600	37.400	36.400	10.900	9.900	18.800
200	30.500	35.800	34.800	5.300	4.300	18.000
250	34.400	34.300	33.300	-0.100	-1.100	17.300
300	38.000	33.100	32.100			14.400
350	41.400	32.100	31.100			13.800
400	44.600	31.300	30.300			13.300
450	47.700	30.500	29.500			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	67.800	65.800
4	100 ± 15	100 ± 15	55.800	53.800
8	100 ± 15	100 ± 15	49.700	47.700
10	100 ± 15	100 ± 15	47.800	45.800
16	100 ± 15	100 ± 15	43.700	41.700
20	100 ± 15	100 ± 15	41.800	39.800
25	100 ± 15	100 ± 15	39.800	37.800
31.250	100 ± 15	100 ± 15	37.900	35.900
62.500	100 ± 15	100 ± 15	31.900	29.900
100	100 ± 15	100 ± 15	27.800	25.800
155	100 ± 22	100 ± 15	24.000	22.000
200	100 ± 22	100 ± 15	21.800	19.800
250	100 ± 32	100 ± 15	19.800	17.800
300	100 ± 32	100 ± 15	18.300	16.300
350	100 ± 32	100 ± 15	16.900	14.900
400	100 ± 32	100 ± 15	15.800	13.800
450	100 ± 32	100 ± 15	14.700	12.700

Notes (Overall):

Notes Jacket sequentially marked at 2 ft intervals. Third party verified to ANSI/TIA-568-C.2, Category 5e. Values above 350 MHz are for Engineering Information Only.

Reference (Overall):

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Previous Part Number

24570179, 24596505, 24570464, 24570464+HU, 24596805, 24570469, 24570161,
24570161+HU, 24570186, 24570186+HU, 24570460, 24570166, 24570166+HU,
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