
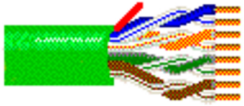


**Product:** [7988R](#) 



Low Skew, Category 5e, 4-24 AWG pairs, CMR

## Product Description

Category 5e, 24 AWG bonded pairs solid bare copper conductors, non-plenum, polyolefin insulation, skew 9.0ns/100m nominal, rip cord, PVC jacket.

## Technical Specifications

### Product Overview

Suitable Applications:	Category 5e, UTP Based Video Applications, and KVM
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
24	Solid	BC - Bare Copper	4

Conductor Count:	8
Total Number of Pairs:	4

#### Insulation

Material
Polyolefin

Bonded-Pair:	N/A
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#### Color Chart

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

#### Outer Shield Material

Material
No Shield

#### Outer Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.204 in	Yes

### Electrical Characteristics

#### Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance
90 Ohm/km	3 %

#### Capacitance

Max. Capacitance Unbalance	Nom. Mutual Capacitance
66	15 pF/ft

#### Delay

Max. Delay	Nominal Velocity of Propagation (VP) [%]	Typical Delay Skew
0.027 ns/ft	70 %	0.027 ns/100m

#### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2 dB/100m	65.3 dB	65.3 dB	60.3 dB	60.3 dB	63.8 dB	60.8 dB	20 dB	100 ± 15	100 ± 15
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	49.2 dB	49.2 dB	51.7 dB	48.7 dB	23 dB	100 ± 15	100 ± 15
8 MHz	5.8 dB/100m	51.8 dB	48.8 dB	43 dB	43 dB	45.7 dB	42.7 dB	24.5 dB	100 ± 15	100 ± 15
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	40.8 dB	40.8 dB	43.8 dB	40.8 dB	25 dB	100 ± 15	100 ± 15
16 MHz	8.2 dB/100m	47.3 dB	44.3 dB	36 dB	36 dB	39.7 dB	36.7 dB	25 dB	100 ± 15	100 ± 15
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	33.5 dB	33.5 dB	37.7 dB	34.7 dB	25 dB	100 ± 15	100 ± 15
25 MHz	10.4 dB/100m	44.3 dB	41.3 dB	30.9 dB	30.9 dB	35.8 dB	32.8 dB	24.3 dB	100 ± 15	100 ± 15
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	28.2 dB	28.2 dB	33.9 dB	30.9 dB	23.6 dB	100 ± 15	100 ± 15
62.5 MHz	17 dB/100m	38.4 dB	35.4 dB	18.4 dB	18.4 dB	27.8 dB	24.8 dB	21.5 dB	100 ± 15	100 ± 15
100 MHz	22 dB/100m	35.3 dB	32.3 dB	10.3 dB	10.3 dB	23.8 dB	20.8 dB	20.1 dB	100 ± 15	100 ± 15
155 MHz	28.1 dB/100m	32.5 dB	29.5 dB	2 dB	2 dB	19.9 dB	16.9 dB	15.8 dB	100 ± 25	100 ± 15
200 MHz	32.4 dB/100m	30.8 dB	27.8 dB	1 dB	1 dB	17.7 dB	14.7 dB	15 dB	100 ± 25	100 ± 15

#### Voltage

UL Voltage Rating
300 V RMS

#### Temperature Range

Operating Temp Range:	-20°C To +75°C
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#### Mechanical Characteristics

Bulk Cable Weight:	20 lbs/1000ft
Max Recommended Pulling Tension:	40 lbs
Min Bend Radius/Minor Axis:	0.25 in

#### Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
ISO/IEC Compliance:	11801 Category 5
Telecommunications Standards:	ANSI/TIA/EIA-568-B.2 Category 5e
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Riser
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Indoor:	Yes
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#### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1666 Riser
CSA Flammability:	FT4
UL voltage rating:	300 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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Plenum Number: 7988P

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
7988R N3UU1000	Green, Mil	UnReel	1,000 ft	612825192558

Patent: <https://www.belden.com/resources/patents>

### Product Notes

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e.

### History

Update and Revision: Revision Number: 0.284 Revision Date: 04-28-2020

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