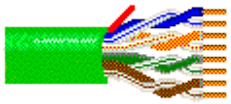
Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

7988R Multi-Conductor - 4-Pair UTP Cable for RGB Video



For more Information
please call

1-800-Belden1

Description:

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

Usage (Overall)

Suitable Applications:	Category 5e, UPT Based Video Applications, and KVM

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

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 Ripcord:	Yes

Overall Cabling

Overall Nominal Diameter:	5.182 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)

Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	43.158 Kg/Km
Max. Recommended Pulling Tension:	177.928 N
Min. Bend Radius (Install)/Minor Axis:	6.350 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
Other Standards:	11801 Category 5
EU CE Mark:	No
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:	ANSI/TIA/EIA-568-B.2 Category 5e
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e

Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

Nominal Velocity of Propagation:

VP (%)
70

Maximum Capacitance Unbalance (pF/100 m):	66

Maximum Delay:

Delay (ns/100 m)
0.027

Typical Delay Skew:

Delay Skew (ns/m)
9

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9

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	2.0	65.3	65.3	60.3	60.3	20.0
4	4.1	56.3	53.3	49.2	49.2	23.0

8	5.8	51.8	48.8	43.0	43.0	24.5
10	6.5	50.3	47.3	40.8	40.8	25.0
16	8.2	47.3	44.3	36.0	36.0	25.0
20	9.3	45.8	42.8	33.5	33.5	25.0
25	10.4	44.3	41.3	30.9	30.9	24.3
31.25	11.7	42.9	39.9	28.2	28.2	23.6
62.5	17.0	38.4	35.4	18.4	18.4	21.5
100	22.0	35.3	32.3	10.3	10.3	20.1
155	28.1	32.5	29.5	2.0	2.0	15.8
200	32.4	30.8	27.8	1.0	1.0	15.0

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.8
100	100 ± 15	100 ± 15	23.8	20.8
155	100 ± 25	100 ± 15	19.9	16.9
200	100 ± 25	100 ± 15	17.7	14.7

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. US Patent #'s 5, 606, 151; 5, 734, 126. Third party verified to TIA/EIA-568-B.2, Category 5e.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7988R N3UU1000	305 MT	9.979 KG	GREEN, MIL		4 PR #24 PP PVC

Revision Number: 3 Revision Date: 03-16-2009