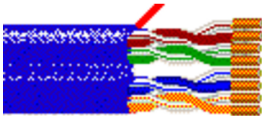




Product: [7989R](#)



Low Skew, Category 6, 4-24 AWG pairs, CMR

Product Description

Category 6, 23 AWG bonded pairs solid bare copper conductors, non-plenum, polyolefin insulation, skew 10.0ns/100m nominal, rip cord, PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Category 6, UTP Based Video Applications, and KVM
------------------------	---

Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4
Conductor Count:			8
Total Number of Pairs:			4

Insulation	
Material	
PO - Polyolefin	
Bonded-Pair:	N/A

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	
No Shield	

Outer Jacket		
Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.365 in	Yes

Electrical Characteristics

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

Capacitance	
Max. Capacitance Unbalance	Nom.Mutual Capacitance
49.2	15 pF/ft

Delay

Nominal Velocity of Propagation (VP) [%]	Typical Delay Skew
70%	0.03 ns/100m

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)
1 MHz	2 dB/100m	74.3 dB	72.3 dB	70.3 dB	67.8 dB	64.8 dB	20 dB	100 ± 15
4 MHz	3.8 dB/100m	65.3 dB	63.3 dB	59.5 dB	55.7 dB	52.7 dB	23 dB	100 ± 15
8 MHz	5.3 dB/100m	60.8 dB	58.8 dB	53.4 dB	49.7 dB	46.7 dB	24.5 dB	100 ± 15
10 MHz	6 dB/100m	59.3 dB	57.3 dB	51.3 dB	47.8 dB	44.8 dB	25 dB	100 ± 15
16 MHz	7.6 dB/100m	56.3 dB	54.3 dB	46.7 dB	43.7 dB	40.7 dB	25 dB	100 ± 15
20 MHz	8.5 dB/100m	54.8 dB	52.8 dB	44.3 dB	41.7 dB	38.7 dB	25 dB	100 ± 15
25 MHz	9.5 dB/100m	53.4 dB	51.4 dB	41.8 dB	39.8 dB	36.8 dB	24.3 dB	100 ± 15
31.25 MHz	10.7 dB/100m	51.9 dB	49.9 dB	39.2 dB	37.9 dB	34.9 dB	23.6 dB	100 ± 15
62.5 MHz	15.4 dB/100m	47.4 dB	45.4 dB	30 dB	31.8 dB	28.8 dB	21.5 dB	100 ± 15
100 MHz	19.8 dB/100m	44.3 dB	42.3 dB	22.5 dB	27.8 dB	24.8 dB	20.1 dB	100 ± 15
155 MHz	25.2 dB/100m	41.5 dB	39.5 dB	14.3 dB	23.9 dB	20.9 dB	18.8 dB	100 ± 22
200 MHz	29 dB/100m	39.8 dB	37.8 dB	8.8 dB	21.8 dB	18.7 dB	18 dB	100 ± 22
250 MHz	32.8 dB/100m	38.3 dB	36.3 dB	3.5 dB	19.8 dB	16.8 dB	17.3 dB	100 ± 32

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temperature Range:	-20°C To +75°C
------------------------------	----------------

Mechanical Characteristics

Bulk Cable Weight:	29 lbs/1000ft
Max. Pull Tension:	50 lbs
Min. Bend Radius/Minor Axis:	1.75 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
CPR Euroclass:	Eca

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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7989P

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
7989R 0131000	Blue, Dark	Reel	1,000 ft	612825192602

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

Product Notes

Notes:	US Patent #'s 5, 606, 151; 5, 734, 126.
--------	---

History

Update and Revision:	Revision Number: 0.412 Revision Date: 04-29-2024
----------------------	--

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[7989R 0131000](#)