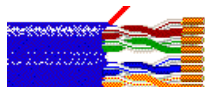


## 7989P Multi-Conductor - 4-Pair UTP Cable for RGB Video



For more Information  
please call

1-800-Belden1



### General Description:

Category 6, 23 AWG bonded pairs solid bare copper conductors, plenum, FEP Teflon® insulation, skew 10.0ns/100m nominal, rip cord, Flamarrest® jacket.

### Usage (Overall)

Suitable Applications:

Category 6, UTP Based Video Applications, and KVM

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	23	Solid	BC - Bare Copper

Total Number of Conductors:

8

#### Insulation

Insulation Material:

Insulation Material
FEP - Fluorinated Ethylene Propylene

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Outer Jacket Ripcord:

Yes

### Overall Cable

Overall Nominal Diameter:

9.322 x 4.242 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:

49.111 Kg/Km

Max. Recommended Pulling Tension:

200.169 N

Min. Bend Radius/Minor Axis:

88.900 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:

CMP

CEC/C(UL) Specification:

CMP

EU Directive 2011/65/EU (RoHS II):

Yes

EU CE Mark:

No

EU Directive 2000/53/EC (ELV):

Yes

EU Directive 2002/95/EC (RoHS):

Yes

## METRIC MEASUREMENT VERSION

## 7989P Multi-Conductor - 4-Pair UTP Cable for RGB Video

EU RoHS Compliance Date (mm/dd/yyyy):	07/01/2006
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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## Applicable Patents:

Country

www.belden.com/p

## Flame Test

UL Flame Test:	NFPA 262
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CSA Flame Test:	FT6
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## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Non-Plenum Number:	7989R
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## Electrical Characteristics (Overall)

## Nom. Mutual Capacitance:

Capacitance (pF/m)

49.215

Maximum Capacitance Unbalance (pF/100 m):	49.2
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## Nominal Velocity of Propagation:

VP (%)

72

## Typical Delay Skew:

Delay Skew (ns/m)

0.100

## 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. PSACR (dB)	Min RL (dB)
1	2.0	74.3	72.3	70.3	20.0
4	3.8	65.3	63.3	59.5	23.0
8	5.3	60.8	58.8	53.4	24.5
10	6.0	59.3	57.3	51.3	25.0
16	7.6	56.3	54.3	46.7	25.0
20	8.5	54.8	52.8	44.3	25.0
25	9.5	53.4	51.4	41.8	24.3
31.25	10.7	51.9	49.9	39.2	23.6
62.5	15.4	47.4	45.4	30.0	21.5
100	19.8	44.3	42.3	22.5	20.1
155	25.2	41.5	39.5	14.3	18.8
200	29.0	39.8	37.8	8.8	18.0
250	32.8	38.3	36.3	3.5	17.3

## Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	67.8	64.8
4	100 ± 15	55.7	52.7
8	100 ± 15	49.7	46.7
10	100 ± 15	47.8	44.8
16	100 ± 15	43.7	40.7
20	100 ± 15	41.7	38.7
25	100 ± 15	39.8	36.8

## METRIC MEASUREMENT VERSION

### 7989P Multi-Conductor - 4-Pair UTP Cable for RGB Video

31.25	100 ± 15	37.9	34.9
62.5	100 ± 15	31.8	28.8
100	100 ± 15	27.8	24.8
155	100 ± 22	23.9	20.9
200	100 ± 22	21.8	18.7
250	100 ± 32	19.8	16.8

#### Notes (Overall)

**Notes:** Electricals are preliminary, final data is pending.

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7989P 0131000	305 MT	16.329 KG	BLUE, DARK	C	4 PR #23 FEP FLRST

**Notes:**

C = CRATE REEL PUT-UP.

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