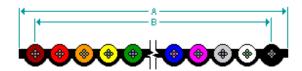
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8R28060 Flat - Rainbow 8R280XX Series





For more Information please call

1-800-Belden1





Description:

Belden's .050" pitch, color-coded FEP flat cable allows for quick identification and circuit tracing, along with easy breakouts for circuit routing, and is designed for mass-termination with standard IDC connectors.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
60	28	7x36	SPC - Silver Plated Copper

Conductor Spacing Center to Center: .050 +/- .005

Conductor Spacing Outside Center to Outside 2.95 +/- .015

Center:

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.010

Substrate Thickness and Material: .010" Clear FEP

Insulation Resistance: >100, 000 Mega Ohms

Insulation Color Code Chart:

Number	Color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Gray
9	White
10	Black
Over 10 conductors	Repeat as required

Outer Shield

Outer Shield Material:

Outer Shield Material Unshielded

Overall Cable

Overall Nominal Thickness: .042 +/- .003

Overall Nominal Width: 3.00

Detailed Specifications & Technical Data





8R28060 Flat - Rainbow 8R280XX Series

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +150°C

Applicable Specifications and Agency Compliance (Overall)

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Applicable Standards & Environmental Programs			
UL AWM Style:	20468		
UL Rating:	150°C, 150 V, VW-1		
EU CE Mark:	Yes		
EU Directive 2000/53/EC (ELV):	Yes		
EU Directive 2002/95/EC (RoHS):	Yes		
EU RoHS Compliance Date (mm/dd/yyyy):	07/01/2005		
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		
Flame Test			
UL Flame Test:	VW-1		
IEEE Flame Test:	383 (70, 000 BTU)		
Plenum/Non-Plenum			

No

Plenum (Y/N): **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Description	Impedance (Ohm)
(GS)	170
(GSG)	120

Nom. Inductance:

Description	Inductance (µH/ft)		
, ,	.26		
@ 1 MHz (GSG)	.18		

Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/ft)
@ 1 kHz (GS)	7.5
@ 1 kHz (GSG)	10.5
@ 1 MHz (GS)	7.5
@ 1 MHz (GSG)	10.5

Nominal Velocity of Propagation:

Description	VP	(%)
	78	

Nominal Delay:

Delay (ns/ft) 1.30 NS/FT. (GSG)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 68.2 OHMS/1000 FT. MAX.

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
10	1.7
20	2.7
30	3.6

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40	4.4	
50	5.1	
60	5.8	
70	6.5	
80	7.2	
90	8	
100	8.5	

Max. Operating Voltage - UL:

Voltage 150 V RMS

Max. Recommended Current:

Current 1 Amp per conductor @ 20°C

2.000 V RMS Dielectric Withstand Voltage:

Typical Unbalanced Crosstalk:

Description	Pulse Rise Time (NS) (MHz)	Near End % (MHz)	Far End % (MHz)
10 ft. sample length	3	3.8	4.3
10 ft. sample length	5	3.2	2.4
10 ft. sample length	7	3.2	1.4

Notes (Overall)

Notes: GS=Ground-Signal Mode; GSG=Ground-Signal-Ground Mode

Related Documents:

No related documents are available for this product

Put Ups and Colors:

item # Futup Ship Weight Color Notes item Desc	Item #	Putup	Ship Weight	Color	Notes	Item Desc
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Revision Number: 1 Revision Date: 12-11-2008

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