# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



# 1277R Coax - Mini Hi-Res Component Video Cable



1-800-Belden1



# **Description:**

25 AWG solid .018" tinned copper conductors, Gas-injected FHDPE insulation, Duobond® (100% coverage) plus a tinned copper interlocked serve shield (95% coverage), inner PVC jacket, overall PVC jacket.

## **Usage (Overall)**

Suitable Applications: RGB Projectors, LCD Projectors, Video Distribution, Component Video,

Graphic Displays, Special Effects Editing, Animation, Video Post Production, Home Theater, Offices, Boardrooms, Auditoriums, Teleconferencing, Theaters

## **Physical Characteristics (Overall)**

### Conductor

AWG:

# Coax	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
3	25	Solid	TC - Tinned Copper	.018

#### Insulation

### **Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.074

### **Inner Shield**

### Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Aluminum Foil-Polyester Tape Lightly bonded to dielectric	100
2		Braid	TC - Tinned Copper	95

### **Inner Jacket**

# Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	.114

### **Inner Jacket Color Code Chart:**

Number	Color
1	Red
2	Green
3	Blue

### **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

## **Overall Cable**

Overall Nominal Diameter: 0.320 in.

Me	Mechanical Characteristics (Overall)		
	Operating Temperature Range:	-40°C To +75°C	
	UL Temperature Rating:	60°C	
	Non-UL Temperature Rating:	75°C	

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Bulk Cable Weight:	44 lbs/1000 ft.
Max. Recommended Pulling Tension:	90 lbs.
Min. Bend Radius (Each Coax):	1.100 in.
Min. Bend Radius (Overall):	2.500 in.

# **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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):	01/01/2004
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: UL1666 Vertical Shaft

**Suitability** 

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:



Nom. Capacitance Conductor to Shield:



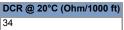
Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nom. Inner Shield DC Resistance:

DCR @ 20°C	(Ohm/1000 ft)
5.4	

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.52
5	1.17
50	3.7
100	4.9
200	6.7

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400	9.5
750	13.4
900	15.0
1000	15.8
3000	31.2

### Max. Operating Voltage - UL:

Voltage 300 V RMS

### Max. Operating Voltage - Non-UL:

Voltage 300 V RMS

### Minimum Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5	850	20

#### **Sweep Test**

Sweep Testing: 5 - 850 MHz

### Misc. Information (Overall)

### **Related Documents:**

No related documents are available for this product

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1277R B591000	1,000 FT	48.000 LB	BLACK, MATTE	С	3#25LDPE/GIFHDLDPE SH FRPVCPVC
1277R B59500	500 FT	25.500 LB	BLACK, MATTE	С	3#25LDPE/GIFHDLDPE SH FRPVCPVC

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 04-11-2008

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