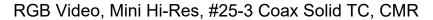


Product: <u>1277R</u> ☑





## **Product Description**

RGB Video Coax, Riser-CMR, 3-25 AWG solid tinned copper conductors, FPFA insulation, Duofoil® + 95% tinned copper interlocked serve shield, inner PVC jackets, PVC jacket

## **Technical Specifications**

## **Product Overview**

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
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## **Physical Characteristics (Overall)**

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	Solid	TC - Tinned Copper	0.018 in	3
Condu	uctor Count:		3	

#### Insulation

#### **Color Chart**

Number	Color
1	Red
2	Green
3	Blue

#### Inner Shield

	Type	Layer	Material	Material Trade Name	Coverage [%]
	Tape	1	Bi-Laminate (Alum+Poly)	Duofoil®	100%
	Braid	2	Tinned Copper (TC)		95%
1					

Table Notes: Tape lightly bonded to dielectric

#### Inner Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.114 in

## Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.32 in

## **Electrical Characteristics**

## Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
34 Ohm/1000ft	34 Ohm/1000ft	5.4 Ohm/1000ft	5.4 Ohm/1000ft

## Capacitance

Nom. Capacitance Conductor to Shield

17 pF/ft

#### Inductance

Nominal Inductance

#### Impedance

Nominal Characteristic Impedance
75 Ohm

## Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-850 MHz	20 dB

## High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.52 dB/100ft
5 MHz	1.17 dB/100ft
50 MHz	3.7 dB/100ft
100 MHz	4.9 dB/100ft
200 MHz	6.7 dB/100ft
400 MHz	9.5 dB/100ft
750 MHz	13.4 dB/100ft
900 MHz	15 dB/100ft
1000 MHz	15.8 dB/100ft
3000 MHz	31.2 dB/100ft

## Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	80%

## Voltage

Non-UL Voltage Rating
UL Voltage Rating
300 V RMS
300 V RMS

## **Temperature Range**

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temperature Range:	-40°C To +75°C

#### **Mechanical Characteristics**

Bulk Cable Weight:	44 lbs/1000ft
Max. Pull Tension:	90 lbs
Min Bend Radius (Overall):	2.5 in
Min Bend Radius (Each Coax):	1.1 in

## **Standards**

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	Sub-miniature 59

## **Applicable Environmental and Other Programs**

Environmental Space:	Indoor - Riser	
EU Directive 2000/53/EC (ELV):	Yes	
EU Directive 2011/65/EU (RoHS 2):	S 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

#### Suitability

Suitability - Indoor:	Yes		

### Flammability, LS0H, Toxicity Testing

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

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1277P

#### **Related Part Numbers**

#### Variants

Item #	Color	Put-Up Type	Length	UPC
1277R B59500	Black, Matte	Reel	500 ft	612825110200
1277R B591000	Black, Matte	Reel	1,000 ft	612825110194

Footnote: C - CRATE REEL PUT-UP.

#### History

Update and Revision:	Revision Number: 0.410 Revision Date: 05-31-2024

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