



**Part Number:** 1277R

RGB Video, Mini Hi-Res, #25-3 Coax Solid TC, CMR

## Product Description

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

## Technical Specifications

<b>Suitable Applications:</b>	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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## Construction and Dimensions

### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	Solid	TC - Tinned Copper	0.018 in	3
<b>Total Number of Conductors:</b>			3	

### Insulation:

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.074 in

### Color Chart 3:

Number	Color
1	Red
2	Green
3	Blue

### Innershield:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape Lightly bonded to dielectric	Bonded Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

### Innerjacket:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.114 in

### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.32 in

## Electrical Characteristics

### Conductor DCR:

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

### Capacitance:

Nom. Capacitance Conductor to Shield
17 pF/ft

Sweep Testing:	5 - 850 MHz
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### Impedance:

Nominal Characteristic Impedance
75 Ohm

### 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 %

## High Freq:

### Min. RL (Return Loss) [dB]

20 dB

## Inductance:

### Nominal Inductance

0.087  $\mu$ H/ft

## Voltage:

### Non-UL Voltage Rating

300V RMS

### UL Voltage Rating

300V RMS V

## Use

Max Recommended Pulling Tension:

90 lbs

## Safety

UL Flammability:

UL1666 Vertical Shaft

## Temperature Range

Non-UL Temp Rating:

75°C °C

Operating Temp Range:

-40°C To +75°C °C

UL Temp Rating:

60°C °C

## Mechanical Characteristics

Min Bend Radius (Each Coax):

1.1 in

Min Bend Radius (Overall):

2.5 in

## Part Number

Suggested Connectors:

ADC - BNC-16; KINGS - 2065-25-9; TROMPETER - 105-2053-0; BELDEN 1B25A (BNC); BELDEN 1R25A (RCA)

## Standards

CA Prop 65 (CJ for Wire & Cable):

Yes

CEC/C(UL) Specification:

CMG

MII Order #39 (China RoHS):

Yes

NEC/(UL) Specification:

CMR

EU Directive Compliance:

EU Directive 2003/11/EC (BFR)

EU CE Mark:

No

## Product Variants

Part Number	Color	Put-Up Type	Length
1277R	BLACK, MATTE	Reel	1000 ft
1277R	MATTE BLACK	Reel	305 m
1277R B591000	BLACK, MATTE	Reel	1000 ft
1277R	BLACK, MATTE	Reel	500 ft
1277R	MATTE BLACK	Reel	152 m
1277R B59500	BLACK, MATTE	Reel	500 ft
1277R			

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