


**Product:** [1280R](#) 



RGB Video, Mini Hi-Res, #25-6 Coax Solid TC, CMR

## Product Description

RGB Video Coax, Riser-CMR, 6-25 AWG tinned copper conductors, foam HDPE insulation, Duobond® foil + 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	6

Conductor Count:	6
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#### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.074 in

Table Notes:	Gas Injected
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#### Color Chart

Number	Color
1	Red
2	Green
3	Blue
4	Yellow
5	Black
6	White

#### Inner Shield

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

Table Notes:	Tape lightly bonded to dielectric
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#### Inner Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.114 in

#### Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.423 in	Yes

### 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
0.087 $\mu$ H/ft

## 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 Temp Range:	-40°C To +75°C

## Mechanical Characteristics

Bulk Cable Weight:	78 lbs/1000ft
Max. Pull Tension:	135 lbs
Min Bend Radius (Overall):	4.25 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):	Yes