



Part Number: 1278R

RGB Video, Mini Hi-Res, #25-4 Coax Solid TC, CMR

Product Description

RGB Video Coax, Riser-CMR, 4-25 AWG solid tinned copper conductors, foam polyethylene insulation, Duofoil® + 95% tinned copper interlocked serve shield, inner PVC jackets, PVC jacket

Technical Specifications

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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Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	Solid	TC - Tinned Copper	0.018 in	4

Total Number of Conductors:	4
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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
4	Yellow

Innershield:

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

Innerjacket:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.114 in

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.351 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

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 μ H/ft

Voltage:

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

Use

Max Recommended Pulling Tension:	110 lbs
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Safety

UL Flammability:	UL1666 Vertical Shaft
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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):	3.5 in

Part Number

Plenum (Y/N):	No
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
1278R	BLACK, MATTE	Reel	1000 ft
1278R	MATTE BLACK	Reel	305 m
1278R B591000	BLACK, MATTE	Reel	1000 ft
1278R	BLACK, MATTE	Reel	500 ft
1278R	MATTE BLACK	Reel	152 m
1278R B59500	BLACK, MATTE	Reel	500 ft
1278R			

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