



**Product:** [1279P](#) 



RGB Video, Mini Hi-Res, 5 Coax 25 AWG TC, Plenum

## Product Description

RGB Video Coax, 5 Coax 25 AWG solid tinned copper conductors, foam FEP insulation, Duobond® foil + 95% tinned copper interlocked serve shield, inner PVC jackets, Plenum, 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	5

Conductor Count:	5
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#### Insulation

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.074 in

#### Inner Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	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	0.111 in

#### Outer Shield

Material
Tri-Laminate (Alum+Poly+Alum)

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.33 in

### Electrical Characteristics

#### Conductor DCR

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

#### Capacitance

Nom. Capacitance Conductor to Shield
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16.8 pF/ft
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Inductance

Nominal Inductance
0.087 μH/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	0.5 dB/100ft
5 MHz	1.2 dB/100ft
50 MHz	3.8 dB/100ft
100 MHz	5.2 dB/100ft
200 MHz	7.1 dB/100ft
400 MHz	10 dB/100ft
750 MHz	14.3 dB/100ft
1000 MHz	16.9 dB/100ft
2250 MHz	25.5 dB/100ft
3000 MHz	33.9 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.26 ns/ft	81%

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temperature Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	60 lbs/1000ft
Max. Pull Tension:	83 lbs
Min Bend Radius (Overall):	3.25 in
Min Bend Radius (Each Coax):	1.1 in

Standards

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

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 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
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Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Related Part Numbers

Non-Plenum Number:	1279R
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Variants

Item #	Color	Put-Up Type	Length	UPC
1279P 010250	Black	Reel	250 ft	612825110279
1279P 010500	Black	Reel	500 ft	612825110286
1279P 0101000	Black	Reel	1,000 ft	612825110262
1279P 008250	Gray	Reel	250 ft	612825110248
1279P 008500	Gray	Reel	500 ft	612825110255
1279P 0081000	Gray	Reel	1,000 ft	612825110231

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.391 Revision Date: 03-27-2024
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