


**Product:** [1277P](#) 

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



### Product Description

RGB Video Coax, Plenum-CMP, 3-25 AWG solid tinned copper conductors, FPFA insulation, Duofoil® + 95% tinned copper interlocked serve shield, inner PVDF 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

Conductor Count:	3
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##### Insulation

Material	Nominal Diameter
PFA - Perfluoroalkoxy (Foam)	0.074 in

##### Color Chart

Number	Color
1	Red
2	Green
3	Blue

##### Inner Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly	Duofoil®	100%
French Braid	2	TC - Tinned Copper		95%

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

Material	Nominal Diameter
PVDF - Polyvinylidene Fluoride	0.111 in

##### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.276 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
16.8 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	0.5 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

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:	-20°C To +75°C

## Mechanical Characteristics

Bulk Cable Weight:	38 lbs/1000ft
Max. Pull Tension:	50 lbs
Min Bend Radius (Overall):	2.75 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 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Flammability, LSOH, Toxicity Testing

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

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## Part Number

Non-Plenum Number:	1277R
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## Variants

Item #	Color	Putup Type	Length	UPC
1277P 008500	Gray	Reel	500 ft	612825110187
1277P 0081000	Gray	Reel	1,000 ft	612825110170

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.322 Revision Date: 06-24-2020
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