



Product Description

RG-174 type, 25 AWG solid .018" bare copper conductor, solid polyethylene insulation, Beldfoil®; tinned copper braid shield (90% coverage), PVC jacket.

Technical Specifications

Product Overview

Enviro	onmenta	I Space:		Indoor (Not Ris	er or Plenum)		
hys		haracte	ristics (C	overall)			
Condu	ictor						
AWG	Stran	ding I	Material	Nominal Diameter	No. of Coax		
25	Solid	BC -	Bare Coppe	r 0.018 in	1		
Condu	uctor Co	ount:		1			
nsulat	tion						
	/aterial	Nom	inal Diamet	er			
PE - F	Polyethy	lene 0.061	l in				
		Material		Material Trade Name	0		
Type Tape			Polyester		Coverage [%]		
Braid		TC - Tinne			90 %		
Outer .		Material					
	Mater		Nominal D	liameter			
PVC -	- Polyvin	yl Chloride	0.11 in				
Elect		Characte	eristics				
	ictor DC						
		ductor DC	_	Conductor DCR Con	ductor Resistanc		Outer Conductor DCF
32 Oh	1000 nm	ft	32 Ohm/	1000ft		9.1 Ohm/1000ft	9.1 Ohm/1000ft
	itance						
Capaci							
	Capaci	tance Con	ductor to SI	nield			

Inductance

Nominal Inductance 0.077 µH/ft

Impedance

Nominal Characteristic Impedance	
50 Ohm	

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.5 dB/100ft
10 MHz	2.2 dB/100ft
30 MHz	3.8 dB/100ft
50 MHz	4.9 dB/100ft
150 MHz	8.6 dB/100ft
220 MHz	10.4 dB/100ft
450 MHz	15.2 dB/100ft
900 MHz	22 dB/100ft
1500 MHz	28.7 dB/100ft
1800 MHz	31.7 dB/100ft
2000 MHz	33.4 dB/100ft
2500 MHz	37.8 dB/100ft
3000 MHz	42 dB/100ft
3500 MHz	45.4 dB/100ft
4500 MHz	52.3 dB/100ft
5800 MHz	60.9 dB/100ft
6000 MHz	62 dB/100ft

Delay

 Nominal Delay
 Nominal Velocity of Propagation (VP) [%]

 1.54 ns/ft
 66 %

Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
30 MHz	216 W	216 W
50 MHz	154 W	154 W
150 MHz	74 W	74 W
220 MHz	48 W	57 W
450 MHz	34 W	34 W
900 MHz	21 W	21 W
1,500 MHz	14 W	14 W
2,000 MHz	12 W	13 W
2,500 MHz	10 W	12 W
3,500 MHz	8 W	10 W
4,500 MHz	7 W	9 W
6,000 MHz	5 W	8 W
4,500 MHz		7 W
5,800 MHz		5 W
6,000 MHz		5 W

Voltage

Non-UL Voltage Rating

VSWR

RG Type:

Frequency [MHz]	Max. VSWR
5-6000 MHz	1.25:1

Temperature Range

Non-UL Temp Rating:	0°08
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	9 lbs/1000ft
Max Recommended Pulling Tension:	16 lbs
Min Bend Radius/Minor Axis:	1.25 in
Standards	

174/U Type

Applicable Environmental and Other Programs

Yes
Yes
Yes
Yes
Yes
EU Directive 2003/11/EC (BFR)
No
2004-01-01
Yes
Yes

Suitability

Suitability - Indoor:

Plenum/Non-Plenum

Plenum (Y/N):

Part Number

Variants

Item #	Color	UPC	Length	Footnote
7805 010100	Black	612825189527	100 ft	E
7805 0101000	Black	612825189534	1,000 ft	
7805 010500	Black	612825189541	500 ft	
Footnote:			E - N	IAY CONTA
History				
Update and Re	vision:		Revis	sion Numbe

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Yes

No

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