



Product: [82248](#)



Analog Video, RG6 #18 Solid BC, Foil + 65% TC Braid, Flammarrest® Jacket, CMP

Product Description

18 AWG solid .040" bare copper conductor, plenum, foam FEP insulation, Duofoil®; tinned copper braid shield (65% coverage), Flammarrest® jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	1
Conductor Count:			1	

Insulation	
Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.17 in

Outer Shield				
Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		65%

Outer Jacket		
Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Flammarrest®	0.222 in

Electrical Characteristics

Conductor DCR			
Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
6.4 Ohm/1000ft	6.4 Ohm/1000ft	5.1 Ohm/1000ft	5.1 Ohm/1000ft

Capacitance
Nom. Capacitance Conductor to Shield
16.5 pF/ft

Inductance
Nominal Inductance
0.09 µH/ft

Impedance
Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)	
Frequency [MHz]	Minimum Return (RL)
5-450 MHz	23 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
10 MHz	0.7 dB/100ft
50 MHz	1.6 dB/100ft
100 MHz	2.2 dB/100ft
200 MHz	3 dB/100ft
400 MHz	4.6 dB/100ft
700 MHz	6.6 dB/100ft
900 MHz	7.7 dB/100ft
1000 MHz	8.2 dB/100ft
1500 MHz	10.7 dB/100ft
1600 MHz	11 dB/100ft
2000 MHz	12.9 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.24 ns/ft	82%

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:	75°C
Operating Temperature Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	28 lbs/1000ft
Max. Pull Tension:	45 lbs
Min. Bend Radius/Minor Axis:	2.25 in

Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
RG Type:	6

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
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, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Related Part Numbers

Non-Plenum Number:	9248
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Variants

Item #	Color	Put-Up Type	Length	UPC
82248 8771000	Natural	Reel	1,000 ft	612825196488

82248 877U1000	Natural	UnReel	1,000 ft	612825196518
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Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.355 Revision Date: 04-29-2024
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