



Product: [9248](#)

Analog Video, RG6, #18 Solid BC, Foil + 60% TC Braid, PVC Jacket, CM



Product Description

75Ohm RG-6 18 AWG solid .040" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (60% coverage), PVC 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
PE - Polyethylene (Foam)	0.18 in
Table Notes:	
Gas Injected	

Outer Shield				
Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		60%

Outer Jacket	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.27 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		5.6 Ohm/1000ft	5.6 Ohm/1000ft

Capacitance
Nom. Capacitance Conductor to Shield
16.2 pF/ft

Inductance
Nominal Inductance
0.106 µH/ft

Impedance
Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)	
Frequency [MHz]	Minimum Return (RL)

5-450 MHz	23 dB
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High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
5 MHz	0.54 dB/100ft
10 MHz	0.7 dB/100ft
50 MHz	1.5 dB/100ft
100 MHz	2 dB/100ft
200 MHz	2.8 dB/100ft
400 MHz	4 dB/100ft
700 MHz	5.3 dB/100ft
900 MHz	6.1 dB/100ft
1000 MHz	6.5 dB/100ft
1500 MHz	8.3 dB/100ft

Delay

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

Voltage

UL Voltage Rating	Voltage Rating [V]
300 V RMS	30 V RMS

Electrical Characteristics Notes:	30 V RMS (UL AWM Style 1354); 300 V RMS (CM)
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Temperature Range

UL Temp Rating:	80°C
Operating Temperature Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	35 lbs/1000ft
Max. Pull Tension:	44 lbs
Min. Bend Radius/Minor Axis:	2.75 in

Standards

NEC/(UL) Compliance:	CM
CEC/C(UL) Compliance:	CM
UL AWM Style Compliance:	AWM 1354 (30 V 80°C)
CPR Euroclass:	Eca
RG Type:	6
Series Type:	6

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
IEC Flammability:	IEC 60332-1-2

UL voltage rating:	300 V RMS
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Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	89248 and 82248

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC/EAN
9248.00152	Black	Reel	152 m	8719605020321
9248.00U152	Black	UnReel	152 m	8719605020352
9248.00305	Black	Reel	305 m	8719605020338
9248 010500	Black	Reel	500 ft	612825357858
9248 010U500	Black	UnReel	500 ft	612825225768
9248.00500	Black	Reel	500 m	8719605020345
9248 0101000	Black	Reel	1,000 ft	612825357681
9248 010U1000	Black	UnReel	1,000 ft	612825358794
9248.001000	Black	Reel	1,000 m	8719605020314
9248 0101640	Black	Reel	1,640 ft	612825357674
9248 0103280	Black	Reel	3,280 ft	612825358800

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.425 Revision Date: 04-29-2024
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