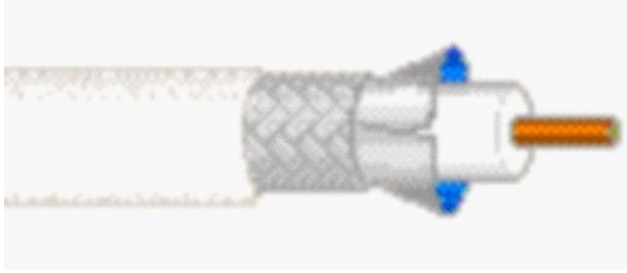


**Part Number:** 82248

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



## Product Description

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

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	1
Total Number of Conductors:			1	

#### Insulation:

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.17 in

#### Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape-Aluminum Foil	Duofoil®	100 %
Braid	2	TC - Tinned Copper		65 %

#### Outerjacket 1:

Material	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.222 in

## Electrical Characteristics

#### Conductor DCR:

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

**Capacitance:**

Nom. Capacitance Conductor to Shield
16.5 pF/ft

<b>Sweep Testing:</b>	100% sweep tested. 5 MHz to 450 MHz.
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**Impedance:**

Nominal Characteristic Impedance
75 Ohm

**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 %

**High Freq:**

Min. RL (Return Loss) [dB]
23 dB

**Inductance:**

Nominal Inductance
0.09 $\mu$ H/ft

**Voltage:**

Non-UL Voltage Rating	UL Voltage Rating
300V RMS	300V RMS V

## Use

Suitability - Indoor:	Yes
Max Recommended Pulling Tension:	45 lbs

## Safety

UL Flammability:	NFPA 262
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## Temperature Range

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

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.25 in
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## Part Number

Plenum (Y/N):	Yes
Non-Plenum Number:	9248

## Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CMP
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CMP
RG Type:	6/U
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No

## Product Variants

Part Number	Color	Put-Up Type	Length
82248	NATURAL	Reel	1000 ft
82248	NATURAL	Reel	305 m
82248 8771000	NATURAL	Reel	1000 ft
82248	NATURAL	UnReel	1000 ft
82248	NATURAL	UnReel	305 m
82248 877U1000	NATURAL	UnReel	1000 ft
82248			

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