

**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
-----------	-------

#### 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)
-----------------------------------	--

#### Temperature Range

UL Temp Rating:	80°C
Operating Temp 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:	UL Style 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, LSOH, Toxicity Testing

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

UL voltage rating:	300 V RMS
--------------------	-----------

### Plenum/Non-Plenum

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

### Part Number

#### 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.
-----------	------------------------

### History

Update and Revision:	Revision Number: 0.340 Revision Date: 12-15-2021
----------------------	--

© 2022 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.