



Product: [8233](#)

Video Triax, RG11, #14 Solid

Product Description

14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, bare copper double shields (95% and 80% coverage), polyethylene jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
14	Solid	BC - Bare Copper	0.064 in	1
Conductor Count:				1

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.285 in
Table Notes:	
Gas Injected	

Inner Shield		
Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

Inner Jacket	
Material	Nominal Diameter
PE - Polyethylene	0.365 in

Outer Shield		
Type	Material	Coverage [%]
Braid	Bare Copper (BC)	80%

Outer Jacket	
Material	Nominal Diameter
PE - Polyethylene	0.475 in

Electrical Characteristics

Conductor DCR			
Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Nominal Outer Shield DCR
2.6 Ohm/1000ft	2.6 Ohm/1000ft	1.7 Ohm/1000ft	1.5 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Shield	
16.1 pF/ft	

Inductance	
Nominal Inductance	
0.097 µH/ft	

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-850 MHz	21 dB
850-4500 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.14 dB/100ft
3.6 MHz	0.3 dB/100ft
10 MHz	0.4 dB/100ft
71.5 MHz	1.1 dB/100ft
135 MHz	1.6 dB/100ft
270 MHz	2.3 dB/100ft
360 MHz	2.6 dB/100ft
540 MHz	3.3 dB/100ft
720 MHz	3.8 dB/100ft
750 MHz	4 dB/100ft
1000 MHz	4.6 dB/100ft
1500 MHz	5.9 dB/100ft
2250 MHz	7.4 dB/100ft
3000 MHz	9 dB/100ft
4500 MHz	12.5 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	84%

Voltage

Non-UL Voltage Rating
300 V RMS

Temperature Range

Non-UL Temp Rating:	80°C
Operating Temperature Range:	-55°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	112 lbs/1000ft
Max. Pull Tension:	170 lbs
Min. Bend Radius/Minor Axis:	5 in

Standards

RG Type:	11
----------	----

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	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:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Indoor:	Yes

Suitability - Outdoor:	Yes
------------------------	-----

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	8233P

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
8233 010500	Black	Reel	500 ft	612825358053
8233 0101000	Black	Reel	1,000 ft	612825355656
8233 0102000	Black	Reel	2,000 ft	612825434153
8233 0104000	Black	Reel	4,000 ft	612825355700

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

History

Update and Revision:	Revision Number: 0.338 Revision Date: 04-29-2024
----------------------	--

© 2024 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.