

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

Insulation 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

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
Maximum Recommended Pulling Tension:	170 lbs
Minimum Minor Axis Bend Radius:	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: 0.339 Revision Date: 02-03-2025

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