



**Product:** [VSD2001](#)

Serial Digital Coax, RG6, 18 AWG Solid BC, Foil + Braid, CMR

## Product Description

Gepco a Belden Brand, SDI Coax, RG-6, 18 AWG solid bare copper conductor, gas-injected foam PE dielectric, aluminum foil shield plus 95% TC braid, CMR rated PVC jacket.

## Technical Specifications

### Product Overview

Suitable Applications:	Broadcast Mobil Trucks, Digital Video, Precision Video, Telecommunications
------------------------	--

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BC - Bare Copper	0.04 in	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)		95%

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.274 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Outer Conductor DCR
6.4 Ohm/1000ft	2.8 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 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.24 dB/100ft
3.58 MHz	0.44 dB/100ft
5 MHz	0.52 dB/100ft
6 MHz	0.57 dB/100ft
7 MHz	0.61 dB/100ft
10 MHz	0.71 dB/100ft
12 MHz	0.78 dB/100ft
25 MHz	1.08 dB/100ft
67.5 MHz	1.65 dB/100ft
71.5 MHz	1.69 dB/100ft
88.5 MHz	1.86 dB/100ft
100 MHz	1.95 dB/100ft
135 MHz	2.24 dB/100ft
143 MHz	2.3 dB/100ft
180 MHz	2.57 dB/100ft
270 MHz	3.17 dB/100ft
360 MHz	3.69 dB/100ft
540 MHz	4.5 dB/100ft
720 MHz	5.3 dB/100ft
750 MHz	5.4 dB/100ft
1000 MHz	6.3 dB/100ft
1500 MHz	7.8 dB/100ft
2000 MHz	9.2 dB/100ft
2250 MHz	9.8 dB/100ft
3000 MHz	11.5 dB/100ft
4500 MHz	14.5 dB/100ft
6000 MHz	17.7 dB/100ft

Delay

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

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination
-----------------------------------	---

Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-30°C To +75°C

Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	41 lbs/1000ft
Max. Pull Tension:	69 lbs
Min. Bend Radius/Minor Axis:	2.75 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	6

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 Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

### Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4
IEC Flammability:	IEC 60332-1-2

### Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

### Related Part Numbers

#### Variants

Item #	Color	Put-Up Type	Length	UPC
VSD2001-0.99	Black	Reel		612825393092
VSD2001-0.38	Black	Reel	500 ft	612825390176
VSD2001-0.41	Black	Reel	1,000 ft	612825390183
VSD2001-0.46	Black	Reel	5,000 ft	
VSD2001-6.99	Blue	Reel		612825393214
VSD2001-6.38	Blue	Reel	500 ft	612825390275
VSD2001-6.41	Blue	Reel	1,000 ft	612825390282
VSD2001-1.99	Brown	Reel		612825393160
VSD2001-1.38	Brown	Reel	500 ft	612825390190
VSD2001-1.41	Brown	Reel	1,000 ft	612825390152
VSD2001-8.99	Gray	Reel		612825393238
VSD2001-8.38	Gray	Reel	500 ft	612825390299
VSD2001-8.41	Gray	Reel	1,000 ft	612825390329
VSD2001-5.99	Green	Reel		612825393207
VSD2001-5.38	Green	Reel	500 ft	612825390251
VSD2001-5.41	Green	Reel	1,000 ft	612825390268
VSD2001-3.99	Orange	Reel		612825393184
VSD2001-3.38	Orange	Reel	500 ft	612825390213
VSD2001-3.41	Orange	Reel	1,000 ft	612825390220
VSD2001-2.99	Red	Reel		612825393177
VSD2001-2.38	Red	Reel	500 ft	612825390206
VSD2001-2.41	Red	Reel	1,000 ft	612825390169
VSD2001-7.99	Violet	Reel		612825393221
VSD2001-7.38	Violet	Reel	500 ft	612825390305
VSD2001-7.41	Violet	Reel	1,000 ft	612825390312
VSD2001-9.99	White	Reel		612825389262
VSD2001-9.38	White	Reel	500 ft	612825390336
VSD2001-9.41	White	Reel	1,000 ft	612825390343
VSD2001-4.99	Yellow	Reel		612825393191
VSD2001-4.38	Yellow	Reel	500 ft	612825390244
VSD2001-4.41	Yellow	Reel	1,000 ft	612825390237

### History

Update and Revision:	Revision Number: 0.57 Revision Date: 01-10-2024
----------------------	---

© 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.