



Product: [1322R](#)

CATV Video, RG6, 18 AWG BCCS, Quad Shield, CMR



Product Description

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® IV quad shield (Foil + 60% Braid + Foil + 40% Braid), PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	Direct Broadcast Satellite, CATV
------------------------	----------------------------------

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
18	Solid	BCCS - Bare Copper Covered Steel	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	Aluminum		60%
Tape	3	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	4	Aluminum		40%

Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.298 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
28 Ohm/1000ft	4.8 Ohm/1000ft	4.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.2 pF/ft

Inductance

Nominal Inductance
0.097 μ H/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-1000 MHz	20 dB
1000 - 2250 MHz	15 dB
2250 - 3000 MHz	10 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss	Nom. Structural Return Loss (SRL)
5 MHz	0.5 dB/100ft	30 dB
55 MHz	1.4 dB/100ft	24 dB
211 MHz	2.6 dB/100ft	
500 MHz	4.1 dB/100ft	
750 MHz	5.1 dB/100ft	
862 MHz	5.5 dB/100ft	
1000 MHz	6 dB/100ft	
1450 MHz	7.4 dB/100ft	
1800 MHz	8.3 dB/100ft	
2250 MHz	9.2 dB/100ft	
3000 MHz	10.5 dB/100ft	

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	83%

High Frequency

Max. Insertion Loss (Attenuation)
0.67 dB/100ft
1.6 dB/100ft
2.87 dB/100ft
3.24 dB/100ft
3.43 dB/100ft
3.72 dB/100ft
4 dB/100ft
4.26 dB/100ft
4.71 dB/100ft
5.59 dB/100ft
5.98 dB/100ft
6.54 dB/100ft
8 dB/100ft
8.8 dB/100ft
10 dB/100ft
11 dB/100ft

Screening

Frequency [MHz]	Shield Effectiveness
5 MHz	
50 MHz	110 dB
50 MHz	
1000 MHz	

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Storage Temperature Range:	-40°C To +80 °C
Operating Temperature Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	33 lbs/1000ft
Max. Pull Tension:	162 lbs
Min. Bend Radius/Minor Axis:	3 in

Standards

NEC/(UL) Compliance:	CATVR, CMR
CEC/C(UL) Compliance:	CMG
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 2003/96/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:	UL1666 Vertical Riser, UL1685 FT4 Loading
CSA Flammability:	FT4
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7916AP

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1322R 0101000	Black	Reel	1,000 ft	612825111894
1322R 010U1000	Black	UnReel	1,000 ft	612825111887

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

History

Update and Revision:	Revision Number: 0.438 Revision Date: 04-14-2023
----------------------	--------------------------------------------------

© 2023 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.