


Product: [7733A](#) 

Low Loss 50 Ohm, RG8, 10 AWG CL2P/CMP



Product Description

RG-8/U type, 10 AWG solid .108" bare copper conductor, plenum, foam FEP insulation, Duofoil®; tinned copper braid shield (90% coverage), fluorocopolymer jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor - Plenum
----------------------	-----------------

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
10	Solid	BC - Bare Copper	0.108 in	1

Conductor Count:	1
------------------	---

Insulation

Material	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	0.28 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		90 %

Outer Jacket Material

Material	Nominal Diameter
PVDF - Fluorocopolymer	0.355 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
0.9 Ohm/1000ft	1.8 Ohm/1000ft	1.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
24.2 pF/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.1 dB/100ft
10 MHz	0.4 dB/100ft

50 MHz	1.1 dB/100ft
100 MHz	1.5 dB/100ft
200 MHz	2.1 dB/100ft
400 MHz	3.2 dB/100ft
700 MHz	4.5 dB/100ft
900 MHz	5.7 dB/100ft
1000 MHz	5.9 dB/100ft
4000 MHz	14.1 dB/100ft

#### Delay

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

### Temperature Range

UL Temp Rating:	125°C
Operating Temp Range:	-20°C To +150°C

### Mechanical Characteristics

Bulk Cable Weight:	100 lbs/1000ft
Max Recommended Pulling Tension:	174 lbs
Min Bend Radius/Minor Axis:	3.75 in

### Standards

NEC/(UL) Specification:	CL2P, CMP
CEC/C(UL) Specification:	CMP
RG Type:	8/U Type
Other Specification:	CEC/C(UL): CMP

### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

### Part Number

#### Variants

Item #	Color	UPC	Length	Footnote
7733A 0101000	Black	612825188926	1,000 ft	C
7733A 010500	Black	612825357971	500 ft	C

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

### History

--

© 2020 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.