

Product: [734D12](#) 



DS-3 and DS-4, 734D Series, 12 Coax 20 AWG SPCCS, CMR/CMG

Product Description

734D Series, 12 Coax 20 AWG solid .032" (.81mm) silver-plated copper covered steel conductor(s), gas-injected FHDPE insulation, Beldfoil® + tinned copper braid shield (85% coverage), CMR rated, individual and overall PVC jackets with ripcord.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	SCCS - Silvered Copper Covered Steel	0.032 in	12
Conductor Count:			12	

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.148 in
Table Notes:	
Gas Injected	

Inner Shield				
Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%
Braid	2	Tinned Copper (TC)		85%

Inner Jacket	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.235 in

Outer Jacket		
Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	1.026 in	Yes

Electrical Characteristics

Conductor DCR		
Nominal Conductor DCR	Nominal Inner Shield DCR	Outer Conductor DCR
10 Ohm/1000ft	2.4 Ohm/1000ft	2.4 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Shield	
16.8 pF/ft	

Inductance	
Nominal Inductance	
0.097 µH/ft	

Impedance	
Nominal Characteristic Impedance	

75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
15 - 95 MHz	30 dB

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.25 ns/ft	81%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1.024 MHz	0.28 dB/100ft
4.224 MHz	0.55 dB/100ft
17.184 MHz	1.08 dB/100ft
22.368 MHz	1.23 dB/100ft
25.920 MHz	1.33 dB/100ft
69.632 MHz	2.19 dB/100ft
77.760 MHz	2.31 dB/100ft
137.088 MHz	3.10 dB/100ft

Voltage

UL Voltage Rating
300 V RMS

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

Temperature Range

Operating Temp Range:	-20°C To +75°C
-----------------------	----------------

Mechanical Characteristics

Bulk Cable Weight:	467 lbs/1000ft
Max. Pull Tension:	485 lbs
Min Bend Radius (Overall):	10 in
Min Bend Radius (Each Coax):	2.4 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	59
Other Specification:	Telcordia Specification GR-139-CORE

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Riser
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/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)
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
-----------------------	-----

Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
734D12 008500	Gray	Reel	500 ft	612825184409
734D12 0081000	Gray	Reel	1,000 ft	612825184454

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

Product Notes

Notes:	Rip cord under overall jacket
--------	-------------------------------

History

Update and Revision:	Revision Number: 0.250 Revision Date: 09-10-2021
----------------------	--

© 2021 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.