

Product: [735C1](#) 

DS-3 and DS-4, 735C* Series, #25H-1 SPC Coax, CMR/CMG



Product Description

25H AWG solid .017" silver-plated copper conductors, foam HDPE insulation, Duobond® (100% coverage) plus a tinned copper braid shield (95% coverage), inner PVC jackets, overall PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Central Office wiring for DS3 transmissions
------------------------	---

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	Solid	SCCS - Silvered Copper Covered Steel	0.017 in	1

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

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.077 in

Inner Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duobond®	100%
Braid	2	Tinned Copper (TC)		95%

Inner Shield Table Notes:	Tape bonded to dielectric
---------------------------	---------------------------

Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.134 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
40 Ohm/1000ft	40 Ohm/1000ft		5.3 Ohm/1000ft	5.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
17.7 pF/ft

Inductance

Nominal Inductance
0.19 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss

Frequency [MHz]	Minimum Return (RL)
5-150 MHz	32 dB

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.29 ns/ft	79%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	1.1 dB/100ft
10 MHz	1.5 dB/100ft
22.5 MHz	2.3 dB/100ft
50 MHz	3.4 dB/100ft
100 MHz	4.99 dB/100ft
150 MHz	6 dB/100ft

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temperature Range:	-40°C To +75°C
------------------------------	----------------

Mechanical Characteristics

Bulk Cable Weight:	13 lbs/1000ft
Maximum Recommended Pulling Tension:	36 lbs
Min Bend Radius (Overall):	1.5 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	Mini 59

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)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
--------	-------	-------------	--------	-----

735C1 0081000	Gray	Reel	1,000 ft	612825184881
735C1 0083000	Gray	Reel	3,000 ft	612825184898
735C1 0085000	Gray	Reel	5,000 ft	612825184911

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

History

Update and Revision:	Revision Number: 0.332 Revision Date: 02-20-2026
----------------------	--

© 2026 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.