



## Product: [735A8](#)



DS3/DS4 Central Office Coax, 8 x Sub-miniature RG-59, 26 AWG Solid SC, Foil + 95% TC Braids, PVC Inner & Outer Jkts, CMR

### Product Description

DS3/DS4 Central Office Coax, 8 Coaxes, Sub-miniature RG-59, 26 AWG Solid Silvered Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shields, PVC Inner and Outer Jackets, CMR

### Technical Specifications

#### Product Overview

Suitable Applications:	Central office wiring, DS3/DS4 interconnect, 734/735 telecommunications systems, switchboard communications
------------------------	---

#### Construction Details

RG Type:	Sub-miniature 59
----------	------------------

##### Conductor

Size	Stranding	Nom. Diameter	Material
26 AWG	Solid	0.016 in	SC - Silvered Copper

##### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.077 in (2.0 mm)	White

##### Inner Shield

Layer	Shield Type	Material	Material Trade Name	Coverage
1	Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%
2	Braid	Tinned Copper (TC)		95%

##### Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.129 in (3.28 mm)

Table Notes:	Each jacket gray and numbered
--------------	-------------------------------

##### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.447 in (11.4 mm)

Overall Cable Diameter (Nominal): 0.447 in (11.4 mm)

### Electrical Characteristics

#### Return Loss (RL)

Frequency	Min. Return Loss
15 - 95 MHz	30 dB

#### Attenuation

Frequency	Max. Attenuation
1 MHz	0.6 dB/100ft
1.024 MHz	0.61 dB/100ft
4.224 MHz	1.1 dB/100ft
5 MHz	1.2 dB/100ft

10 MHz	1.7 dB/100ft
17.184 MHz	2.2 dB/100ft
22.368 MHz	2.5 dB/100ft
25.92 MHz	2.7 dB/100ft
44.736 MHz	3.6 dB/100ft
50 MHz	3.8 dB/100ft
69.632 MHz	4.5 dB/100ft
77.76 MHz	4.8 dB/100ft
100 MHz	5.5 dB/100ft
137.088 MHz	6.4 dB/100ft
200 MHz	7.8 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
41 Ohm/1000ft	5.3 Ohm/1000ft (17 Ohm/km)	17.7 pF/ft (58.1 pF/m)	75 Ohm	76%

#### Voltage

UL Voltage Rating
300 V (CMR, CMG)

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
75°C	-40°C to +75°C

##### Bend Radius

Installation Min.
4.5 in (110 mm)

Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	118 lbs/1000ft

#### Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	Telcordia Specification GR-139-CORE

#### History

Update and Revision:	Revision Number: 0.462 Revision Date: 04-13-2023
----------------------	--

#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	UPC
735A8 008500	Gray	Reel	500 ft	612825184850
735A8 0081000	Gray	Reel	1,000 ft	612825184843

© 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.