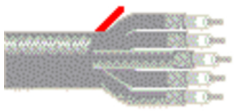
BELDEN
SENDING ALL THE RIGHT SIGNALS



Product: 735C8

DS3 8 Coax 25H AWG SPC, Duobond® + Braid, Riser

Product Description

DS3 8 Coax 25H AWG solid silver-plated copper, foam HDPE insulation, Duobond® tape, tinned copper braid shield (95% coverage), inner PVC jackets, Riser, overall PVC jacket with ripcord.

Technical Specifications

Product Overview

Suitable Applications:	Central Office wiring for DS3 transmissions

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
25H	Solid	SCCS - Silvered Copper Covered Steel	0.017 in	8

Conductor Count:	8

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.077 in

Inner Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Duobond®	100 %
Braid	2	TC - Tinned Copper		95 %

InnerShield, Table Note:	Tape bonded to dielectric

Inner Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.134 in

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.482 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
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 (RL)

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

Delay

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

High Freq

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 Temp Range:	-40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	134 lbs/1000ft
Max Recommended Pulling Tension:	288 lbs
Min Bend Radius (Overall):	5 in
Min Bend Radius (Each Coax):	1.5 in

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
RG Type:	Mini 59/U Type
Other Specification:	Telcordia Specification GR-139-Core; SBC ENTERPRISE - SBC-002-316-019, ISSUE 4

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Riser
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):	2007-04-09
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

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
735C8 0081000	Gray	Reel	1,000 ft	612825185031
735C8 0082000	Gray	Reel	2,000 ft	612825185048

Footnote:	C - CRATE REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.157 Revision Date: 04-28-2020

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