



Part Number: 734C8

DS-3 and DS-4, 734C Series, #20-8 SPC Coax, CMR/CMG

Product Description

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond®; tinned copper braid shield (85% coverage), inner PVC Jacket, overall PVC jacket with ripcord.

Technical Specifications

Product Overview

Environmental Space:	Indoor - Riser
Suitable Applications:	Central Office wiring for DS3 transmissions

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	SPCCS - Silver Plated Copper Covered Steel	0.032 in	8

Conductor Count:	8
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Insulation

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.148 in

Inner Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	Duobond®	100 %
Braid	2	TC - Tinned Copper		85 %

Inner Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.235 in

Outer Shield Material

Material
Unshielded

Outer Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.86 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
10 Ohm/1000ft	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)

5-150 MHz 32 dB

Delay

Nominal Delay Nominal Velocity of Propagation (VP) [%]

1.27 ns/ft 80 %

High Freq

Frequency [MHz] Max. Insertion Loss (Attenuation)

1 MHz 0.28 dB/100ft

5 MHz 0.59 dB/100ft

10 MHz 0.8 dB/100ft

22.5 MHz 1.18 dB/100ft

50 MHz 1.82 dB/100ft

100 MHz 2.6 dB/100ft

150 MHz 3.22 dB/100ft

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Operating Temp Range: -40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight: 30 lbs/1000ft

Max Recommended Pulling Tension: 483 lbs

Min Bend Radius (Overall): 8.5 in

Min Bend Radius (Each Coax): 2.5 in

Standards

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

RG Type: 59/U Type

Other Specification: Telcordia Specification GR-139-CORE; SBC ENTERPRISE - SBC-002-316-019, ISSUE 4

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/11/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

CA Prop 65 (CJ for Wire & Cable): 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
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Part Number

Variants

Item #	Color	UPC	Length	Footnote
734C8 0081000	Gray	612825184379	1,000 ft	C
734C8 0082000	Gray	612825184386	2,000 ft	C

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.240 Revision Date: 08-22-2019
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