Product: 735A12

DS3/DS4 Central Office Coax, 12 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, 12 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	0.581 in (14.8 mm)

Overall Cable Diameter (Nominal):	0.581 in (14.8 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.
5.8 in (150 mm)

Max. Pull Tension:	300 lbs (140 kg)
Bulk Cable Weight:	171 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.456 Revision Date: 04-13-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
735A12 008500	Gray	Reel	500 ft	612825184744	C
735A12 0081000	Gray	Reel	1,000 ft	612825184737	C

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