



**Product:** [734C12](#)



DS3/DS4 Central Office Coax, 12 x RG-59, 20 AWG Solid SC, Foil + 85% TC Braids, PVC Inner & Outer Jkts, CMR

### Product Description

DS3/DS4 Central Office Coax, 12 Coaxes, RG-59, 20 AWG Solid Silvered Copper Conductor, PE Insulation, Foil + 85% 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
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#### Construction Details

RG Type:	59
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#### Conductor

Size	Stranding	Nom. Diameter	Material
20 AWG	Solid	0.032 in	SC - Silvered Copper

#### Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.148 in (3.76 mm)

#### Inner Shield

Layer	Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
2	Braid	Tinned Copper (TC)		85%

#### Inner Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.235 in (5.97 mm)

Table Notes:	Each jacket gray and numbered
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#### Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	1.07 in (27.2 mm)

#### Electrical Characteristics

##### Return Loss (RL)

Frequency	Min. Return Loss
5 - 150 MHz	32 dB

##### Attenuation

Frequency	Max. 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

## Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
10 Ohm/1000ft (33 Ohm/km)	2.4 Ohm/1000ft (7.9 Ohm/km)	16.8 pF/ft (55.1 pF/m)	75 Ohm	80%

## Voltage

<b>UL Voltage Rating</b>
300 V (CMR, CMG)

## Mechanical Characteristics

### Temperature

<b>Operating</b>
-20°C to +75°C

### Bend Radius

<b>Installation Min.</b>
10.7 in

Max. Pull Tension:	485 lbs (220 kg)
Bulk Cable Weight:	451 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: 0.202 Revision Date: 04-29-2024
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
734C12 0081000	Gray	Reel	1,000 ft	612825184263	C
734C12 0082000	Gray	Reel	2,000 ft	612825184270	C
734C12 0083000	Gray	Reel	3,000 ft	612825184287	

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