


Product: [734D12](#) 



DS-3 and DS-4, 734D Series, 12 Coax 20 AWG SPCCS, CMR/CMG

Product Description

734D Series, 12 Coax 20 AWG solid .032" (.81mm) silver-plated copper covered steel conductor(s), gas-injected FHDPE insulation, Beldfoil® + tinned copper braid shield (85% coverage), CMR rated, individual and overall PVC jackets with ripcord.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	SCCS - Silvered Copper Covered Steel	0.032 in	12
Conductor Count:			12	

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.148 in
Table Notes:	
Gas Injected	

Inner Shield				
Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%
Braid	2	Tinned Copper (TC)		85%

Inner Jacket	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.235 in

Outer Jacket		
Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	1.026 in	Yes

Electrical Characteristics

Conductor DCR		
Nominal Conductor DCR	Nominal Inner Shield DCR	Outer Conductor DCR
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
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#### Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
15 - 95 MHz	30 dB

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.25 ns/ft	81%

#### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1.024 MHz	0.28 dB/100ft
4.224 MHz	0.55 dB/100ft
17.184 MHz	1.08 dB/100ft
22.368 MHz	1.23 dB/100ft
25.920 MHz	1.33 dB/100ft
69.632 MHz	2.19 dB/100ft
77.760 MHz	2.31 dB/100ft
137.088 MHz	3.10 dB/100ft

#### Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination
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### Temperature Range

Operating Temp Range:	-20°C To +75°C
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### Mechanical Characteristics

Bulk Cable Weight:	467 lbs/1000ft
Max. Pull Tension:	485 lbs
Min Bend Radius (Overall):	10 in
Min Bend Radius (Each Coax):	2.4 in

### Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	59
Other Specification:	Telcordia Specification GR-139-CORE

### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Riser
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
MII Order #39 (China RoHS):	Yes

### Suitability

Suitability - Indoor:	Yes
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### Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

### Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
734D12 008500	Gray	Reel	500 ft	612825184409
734D12 0081000	Gray	Reel	1,000 ft	612825184454

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Rip cord under overall jacket
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History

Update and Revision:	Revision Number: 0.251 Revision Date: 12-15-2021
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