


Product: [734D1T](#) 



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

Product Description

734D Series, 20 AWG solid .032" (.81mm) silver-plated copper covered steel conductor, gas-injected FHDPE insulation, Beldfoil® + tinned copper braid shield (85% coverage), CMR rated, overall PVC jacket. PVC insulated tracer wire in Siamese (Figure 8) configuration.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	SCCS - Silvered Copper Covered Steel	0.032 in	1
Conductor Count:			2	

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

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

Outer Jacket	
Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.235 x 0.309 in

Electrical Characteristics

Conductor DCR		
Nominal Conductor DCR	Nominal Outer 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	

Return Loss (RL)	
Frequency [MHz]	Minimum Return (RL)

15 - 95 MHz	30 dB
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Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.27 ns/ft	80%

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

UL Temp Rating:	60°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	33 lbs/1000ft
Max. Pull Tension:	47 lbs
Min. Bend Radius/Minor Axis:	2.4 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	58
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, 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	Put-Up Type	Length	UPC
734D1T 008500	Gray	Reel	500 ft	612825184461
734D1T 0081000	Gray	Reel	1,000 ft	612825184430

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.161 Revision Date: 12-15-2021
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