DS-3/4 Interconnect Cables

Approved for AT&T
Catalog # 734xxS Non-Plenum Series
NEC/CEC: CMR (ETL) c(ETL)

CommScope®
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ISO9001 REGISTERED
www.commscope.com

Connector and Tooling information can be found on page 2 of this specification.

CONSTRUCTION for 73401S and Sub-Units:

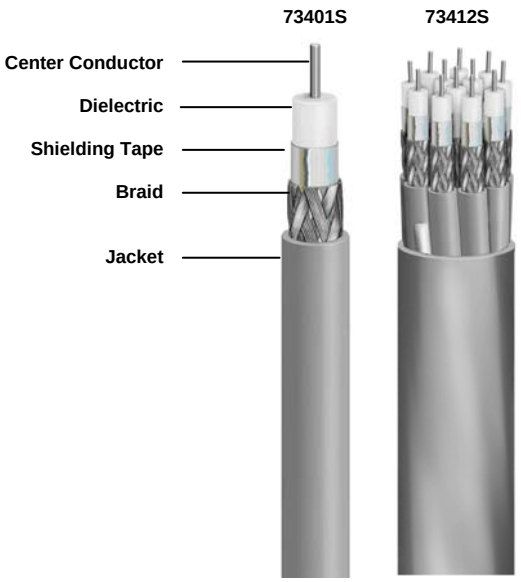
CENTER CONDUCTOR: 20 AWG Silver Plated Solid Copper
Conductor Diameter: 0.0313" +/- .0002" (.795" +/- .005 mm)

DIELECTRIC: Foamed Polyethylene (FPE)
Diameter Over Dielectric: 0.148" (3.76 mm) Nom.
Wall Thickness: 0.058" (1.5 mm) Nom.

SHIELD: Foil: Aluminum/Poly Tape (Bonded)
100% Coverage
Diameter Over Foil: 0.163" +/- 0.003" (4.14 +/- .08 mm)
Braid: 34 AWG Tinned Copper
85% Coverage Minimum
Diameter Over Braid: 0.185" +/- 0.003" (4.70 +/- .08 mm)

JACKET: Gray Polyvinylchloride (PVC)
Diameter Over Cable: 0.235" +/ - 0.005" (5.97 +/- .08 mm)
Coax Jacket Thickness: 0.026" (.55 mm) Nom.

OVERALL JACKET: Gray Polyvinylchloride (PVC)
Jacket Thickness: 0.030" (.76 mm) Nom.



Part Number	# Conductors	Jkt Wall thk Nom in. (mm)	Cable Nom OD in. (mm)
73401S	1	.026 (.55)	.235 (5.97)
73402S	2	.030 (.76)	.298 (7.57) x .528 (13.4)
73403S	3	.030 (.76)	.568 (14.4)
73406S	6	.030 (.76)	.780 (19.8)
73408S	8	.030 (.76)	.845 (21.5)
73409S	9	.030 (.76)	.880 (22.4)
73412S	12	.030 (.76)	1.00 (25.4)
73415S	15	.030 (.76)	1.22 (31.0)

***Sequential Footage Marks are printed on the outer jacket every two feet.**
For Multi-unit cables, each coaxial cable is sequentially numbered (i.e. 1 ONE 1 ONE)

Example Multiple Construction

ELECTRICAL PROPERTIES:

SPARKER TEST:	
DIELECTRIC STRENGTH:	**4000 VAC**
	Conductor to Shield: 3 Sec. @ 3500 VDC
CAPACITANCE:	**Shield to Shield: 1200 VDC**
IMPEDANCE:	**17.7 +0.20 –0.10 pF/ft. (58.1 +/.7 -.3pF/m)**
VELOCITY OF PROPAGATION:	**75.0 +/- 2.0 Ohms (5 - 150 MHz)**
DCR:	**80% Nom.**
Conductor:	
SRL: 73401S	**11.0 Ohms/1000 ft. (36.1 Ohms/ km) Max**
73402S – 73415S	**35 dB Min. (5 - 150 MHz) 100% Swept Tested**
	32 dB Min. (5 - 150 MHz) 100% Swept Tested

ATTENUATION:

dB/100 Ft. (Max)	@ Frequency MHz
0.28 dB	1 MHz
0.59 dB	5 MHz
0.80 dB	10 MHz
1.18 dB	22.5 MHz
1.82 dB	50 MHz
2.60 dB	100 MHz
3.22 dB	150 MHz

MECHANICAL PROPERTIES:
RECOMMENDED MINIMUM BEND RADIUS:
Installation (Under Load): 20 times cable OD
Fixed (Unloaded): 10 times cable OD

ENVIRONMENTAL PROPERTIES:
Jacket Temperature Rating: 75ºC
Min Installation Temp: 0ºC

RoHS COMPLIANT

*Meets or exceeds GR-139-CORE

Drawings not to Scale
Specifications subject to change
Revision: 03/20/09

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Connector and Tooling Information:

SBC SSI Number	Supplier P/N	Cable Type	Part Description	Supplier	Contact Phone #
300-025-939	2025-95-7	734	BNC Connector – Straight	Kings Electronics	803-909-5000
300-025-921	2026-28-7	734	BNC Connector – 45 Degree		
300-025-913	2026-27-7	734	BNC Connector – 90 Degree		
	7410-12	734	440 Patch Plug		
	NEW-100125		Deluxe Tool Kit	Newhall Pacific	888-639-4255
	NEW-100126		Broadcast Tool Kit		
300-026-143	NEW-100110		Basic Tool Kit		
300-026-036	NEW-100102		734/735 Die Set w/.255 & .178 Hex Cavities		
300-026-044	NEW-100101		Crimper Frame w/o Dies		
300-026-051	NEW-100103		Center Pin Indenter, 12 Dimple Crimp		
300-026-093	NEW-100104		Go/No-Go Gage .004 - .020 Height Gage		
300-026-077	NEW-100105		Go/No-Go Gage .178 - .182 Hex Gage for 735		
300-026-069	NEW-100106		Go/No-Go Gage .255 - .259 Hex Gage for 734		
300-026-085	NEW-100107		Go/No-Go Gage .025 - .027 Center Pin Gage		
300-026-101	NEW-100111		Cutter Head for Power Stripper – 734 Cable		
300-026-119	NEW-100112		Cutter Head for Power Stripper – 735 Cable		
300-032-992	NEW-100114		Portable Continuity Tester for BNC's		
300-026-150	NEW-100108		Case (Only) for Basic Tool Kit		
	NEW-100120		Case (Only) for Deluxe Tool Kit		
300-026-127	NEW-100113		Power Stripper-Hand Driver with AC Power Supply and Case	Newhall Pacific	888-639-4255

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