



DS-3/4 Interconnect Cables

Approved for AT&T

Catalog # 735xxS Non-Plenum Series

NEC/CEC: CMR (UL) c(UL)

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

CONSTRUCTION for 73501S and Sub-Units:

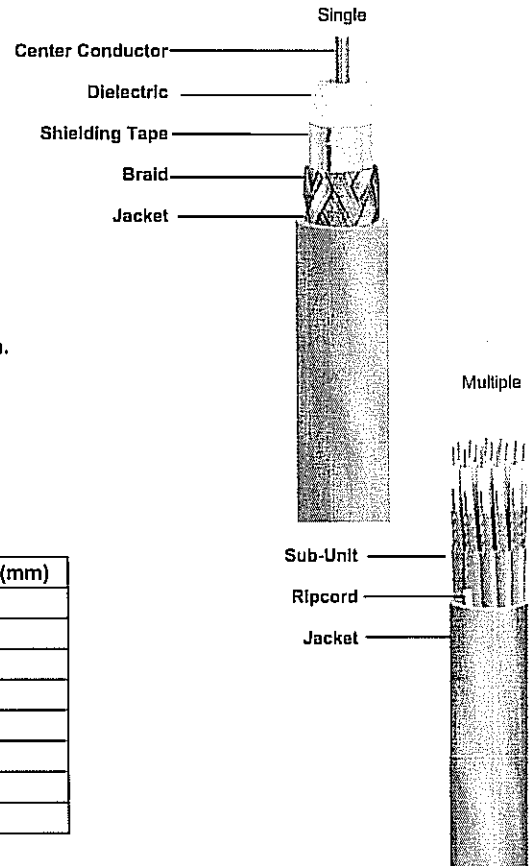
CENTER CONDUCTOR: 26 AWG Silver Plated Solid Copper
 Conductor Diameter: 0.0161" +/- 0.0002" (.409 +/- .005mm)

DIELECTRIC: Foamed Polyethylene (FPE)
 Diameter Over Dielectric: 0.077" (2.0 mm) Nom.
 Wall Thickness: 0.030" (.76 mm) Nom.

SHIELD: Foil: Aluminum/Poly Tape (Bonded)
 100% Coverage
 Diameter Over Foil: 0.082" +/- 0.003" (2.1 +/- .08 mm) Nom.
 Braid: 36 AWG Tinned Copper
 95% Coverage Minimum
 Diameter Over Braid: 0.108" +/- 0.003" (2.74 +/- .08 mm) Nom.

JACKET: Gray Polyvinylchloride (PVC)
 Diameter Over Jacket: 0.134" +/- 0.003" (3.4 +/- .08 mm)
 Coax Jacket Thickness: 0.013" (.33 mm) Nom.

OVERALL JACKET: Gray Polyvinylchloride (PVC)
 Jacket Thickness: 0.022" (.56 mm) Nom.



Part Number	# Conductors	Jkt Wall Thk Nom. in. (mm)	Cable Nom OD in. (mm)
73501S	1	.013 (.33)	.134 (3.4)
73503S	3	.022 (.56)	.326 (8.28)
73506S	6	.022 (.56)	.444 (11.3)
73508S	8	.022 (.56)	.514 (13.1)
73509S	9	.022 (.56)	.534 (13.6)
73512S	12	.022 (.56)	.604 (15.3)
73515S	15	.022 (.56)	.675 (17.2)
73516S	16	.022 (.56)	.725 (18.4)

*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)

ELECTRICAL PROPERTIES:

SPARKER TEST: 2000 VAC (73501S) & 6000 VAC (73503S-73516S)
DIELECTRIC STRENGTH: Conductor to Shield: 3 Sec. @ 2500 VDC
 Shield to Shield: 1200 VDC
CAPACITANCE: 18.0 pF/ft. (59.1 +/- .7 pF/m)
IMPEDANCE: 75.0 +/- 2.0 Ohms (5 - 150 MHz)
VELOCITY OF PROPAGATION: 78% Nom.
DCR:
 Conductor: 40 Ohms/1000 ft. (130 Ohms/ km) Max
 SRL: 73501S 35 dB Min. (5 - 150 MHz) 100% Swept Tested
 73503S - 73516S 32 dB Min. (5 - 150 MHz) 100% Swept Tested

MECHANICAL PROPERTIES:

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

ENVIRONMENTAL PROPERTIES:

JACKET TEMPERATURE RATING: 75°C

ATTENUATION:

dB/100 Ft. (Max)	@ Frequency MHz
0.5 dB	1 MHz
1.1 dB	5 MHz
1.5 dB	10 MHz
2.30 dB	22.5 MHz
3.40 dB	50 MHz
4.99 dB	100 MHz
6.0 dB	150 MHz

Drawings not to Scale
 Specifications subject to change
 Revision: 06/05/07



*Meets or exceeds GR-139-CORE

DS-3/4 Plenum Interconnect and Cross Connect 75 Ohm Coaxial Cable

Catalog # 735xxP Series
NEC/CEC: CMP (ETL) c(ETL)



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CABLE CONSTRUCTION CHART:

Part Number	# Cond./Tracer	Jkt Nom. Wall (in.)	Jkt. Nom OD (in.)
73501P	1/0	.013"	.126
735T1P	1/1	.013"	.125H x .197W
73502P	2/0	.015"	.157H x .284W
735Z2P	2/0	.013"	.127H x .265W
735T2P	2/1	.015"	.158H x .364W
73503P	3/0	.015"	.300
73506P	6/0	.016"	.412

ELECTRICAL PROPERTIES:

SPARKER TEST: 2000 VAC (73501/T1/Z2) & 6000 VAC (73503-73506)
DIELECTRIC STRENGTH: Conductor to Shield: 3 Sec. @ 2500 VDC
 Shield to Shield: 1200 VDC
CAPACITANCE: 17.2 pF/ft. Nom.
IMPEDANCE: 75.0 +/- 3.0 Ohms
VELOCITY OF PROPAGATION: 80% Nom.
DCR:
 Conductor 40.5 Ohms/1000 ft.
SRL: 30 dB Min. (15 - 90 MHz) 100% Swept Tested

MECHANICAL PROPERTIES:

MINIMUM BEND TEST:
 Loaded: 20 times cable OD
 Unloaded: 10 times cable OD
CABLE TEMP. RATING:
 PVDF TEMP: 125°C

ATTENUATION:

dB/100 Ft. (Nom.)	@ Frequency MHz
.52 dB	1 MHz
.52 dB	1.024 MHz (CEPT-1)
.99 dB	4.224 MHz (CEPT-2)
1.06 dB	5 MHz
1.49 dB	10 MHz
1.96 dB	17.184 MHz (CEPT-3)
2.25 dB	22.368 MHz (DS-3)
2.44 dB	25.920 MHz (STS-1)
3.49 dB	50 MHz
4.14 dB	69.632 MHz (CEPT-4)
4.37 dB	77.760 MHz (STS-3)
5.01 dB	100 MHz
5.93 dB	137.088 MHz (DS-4)
7.28 dB	200 MHz



Drawings not to Scale
 Specifications subject to change
 Revision: 08/10/06