



DS-3/4 Interconnect Cables

Approved for AT&T

Catalog # 734xxS Non-Plenum Series

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

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

CONSTRUCTION for 73401S and Sub-Units:

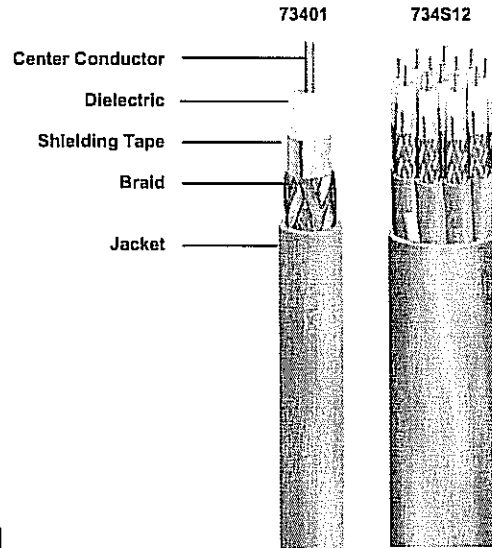
CENTER CONDUCTOR: 20 AWG Silver Plated Solid Copper
 Conductor Diameter: 0.0313" +/- .0002" (.795" +/- .005 mm)

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)
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: 4000 VAC
DIELECTRIC STRENGTH: Conductor to Shield: 3 Sec. @ 3500 VDC
 Shield to Shield: 1200 VDC
CAPACITANCE: 17.7 +0.20 -0.10 pF/ft. (58.1 +/- .3pF/m)
IMPEDANCE: 75.0 +/- 2.0 Ohms (5 - 150 MHz)
VELOCITY OF PROPAGATION: 80% Nom.
DCR:
 Conductor: 11.0 Ohms/1000 ft. (36.1 Ohms/ km) Max
 SRL: 73401S 35 dB Min. (5 - 150 MHz) 100% Swept Tested
 73403S - 73415S 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
MIN INSTALLATION TEMP: 0°C

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



*Meets or exceeds GR-139-CORE

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

DS-3/4 Interconnect and Cross Connect 75 Ohm Coaxial Cable Catalog # 734C1P Plenum NEC/CEC: CMP (UL) c(UL)



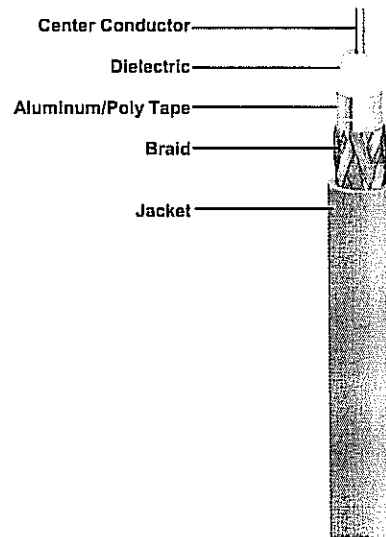
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CONSTRUCTION:

- CENTER CONDUCTOR:**
20 AWG Solid Copper
- DIELECTRIC:**
Foamed Fluorinated Ethylene Propylene (FFEP)
Dia. Over Dielectric: 0.150" Nom.
- SHIELD:**
Foil: Aluminum/Poly Tape
Braid: 34 AWG Tinned Copper
80% Coverage
Dia. Over Braid: 0.184" Nom.
- JACKET:**
Kynar (PVDF)
Dia. Over Jacket: 0.215" +/- 0.004"
Jkt. Thickness: 0.015" Nom.
Min. Spot: 0.013"



ELECTRICAL PROPERTIES:

- SPARKER TEST:** 2500 VAC
- DIELECTRIC STRENGTH:** Conductor to Shield: 5 Sec. @ 3500 VDC
Shield to Shield: 1200 VDC
- CAPACITANCE:** 17.0 pF/ft. Nom.
- IMPEDANCE:** 75.0 +/- 3.0 Ohms
- VELOCITY OF PROPAGATION:** 80% Nom.
- DCR:**
- Conductor: 11.0 Ohms/1000 ft.
- SRL:** 30 dB Min. (15 – 95 MHz) 100% Swept Tested

MECHANICAL PROPERTIES:

- MINIMUM BEND TEST:**
- Loaded: 20 times cable OD
- Unloaded: 10 times cable OD
- JACKET TEMP. RATING:**
- Temp: 125°C

ATTENUATION:

dB/100 Ft. (Nom.)	@ Frequency MHz
.25 dB	1 MHz
.27 dB	1.024 MHz (CEPT-1)
.49 dB	4.224 MHz (CEPT-2)
.54 dB	5 MHz
.76 dB	10 MHz
.99 dB	17.184 MHz (CEPT-3)
1.15 dB	22.368 MHz (DS-3)
1.25 dB	25.920 MHz (STS-1)
1.69 dB	44.736 MHz
1.75 dB	50 MHz
2.09 dB	69.632 MHz (CEPT-4)
2.22 dB	77.760 MHz (STS-3)
2.53 dB	100 MHz
3.03 dB	137.088 MHz (DS-4)
3.79 dB	200 MHz

Drawings not to Scale
Specifications subject to change
Revision: 07/28/04