

DS-3/4 Interconnect and Cross Connect 75 Ohm Coaxial Cable Catalog # 735xxB Series NEC/CEC: CMR (UL) c(UL)

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 **ISO 9001
REGISTERED**

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Note: the outer diameter of this product is larger than the standard CommScope 73501 product. The use of Kings connector (2025-96-7), Trompeter connector (UPL220-026), Milestek connector (10-03001-205), ITT connector (W58-124-9019910) or similar is recommended for proper connector fit.

CONSTRUCTION for 73501B and Sub-Units:

CENTER CONDUCTOR:

26 AWG Silver Plated Solid Copper

DIELECTRIC:

Foamed Polyethylene (FPE)

Diameter Over Dielectric: 0.077" Nom.

Wall Thickness: 0.030" Nom.

SHIELD:

Foil: Aluminum Bonded/Poly Tape

100% Coverage

Diameter over foil: 0.082" Nom.

Braid: 36 AWG Tinned Copper

95% Coverage Minimum

Diameter Over Braid: 0.108" Nom.

JACKET:

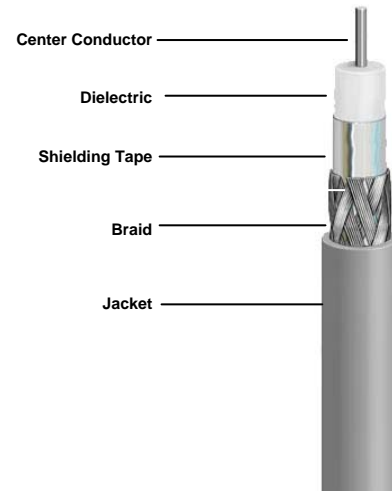
Gray Polyvinylchloride (PVC)*

Diameter Over Cable: 0.134" +/- 0.003"

Coax Jacket Thickness: 0.015" Nom.

Coax Min. Wall Thickness: 0.013"

73501B and Sub-Units



CONSTRUCTION for Multiple Sub-Unit or Tracer Cables:

SUB-UNIT:

Diameter Over Jacket: 0.134" Nom.

INNER BINDER (over bunched sub-unit core): (Optional)
Polyester

OUTER BINDER:

Polyester

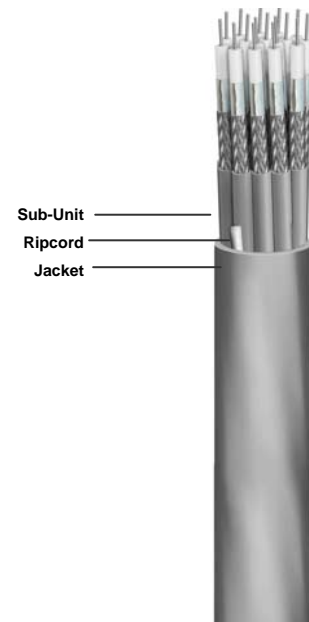
RIPCORDER: (for multiples 3-16 only)

Polyester

JACKET:

Gray PVC*

Example Multiple Construction



*Jacket also available in Gray Flame-Retardant Polyethylene for Non-Halogen applications with CMR, CMR-LS OR CMG-LS NEC/CEC ratings. Jacket wall thickness may differ from PVC overall jackets.



*Meets or exceeds GR-139-CORE

Drawings not to Scale
Specifications subject to change
Revision: 06/14/07

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

Catalog # 735xxB Series

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



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CABLE CONSTRUCTION CHART:

Part Number	# Conductors	Jkt Wall thk inches Nom.	Cable Nom. OD (in.)
73501B	1	.015	.134
73503B	3	.022	.326
73506B	6	.022	.444
73508B	8	.022	.514
73509B	9	.022	.534
73512B	12	.022	.604
73516B	16	.022	.725

ELECTRICAL PROPERTIES:

SPARKER TEST: 2000 VAC (73501B) & 6000 VAC (73503B-73516B)
DIELECTRIC STRENGTH: Conductor to Shield: 3 Sec. @ 2500 VDC
 Shield to Shield: 1200 VDC
CAPACITANCE: 17.5 pF/ft. Nom.
IMPEDANCE: 75.0 +/- 3.0 Ohms
VELOCITY OF PROPAGATION: 78% Nom.
DCR:
 Conductor: 42.2 Ohms/1000 ft.
SRL: 30 dB Min. (15 - 90 MHz) 100% Swept Tested

MECHANICAL PROPERTIES:

MINIMUM BEND RADIUS:
INSTALLATION (Loaded): 20 times cable OD
FIXED (Unloaded): 10 times cable OD

ENVIRONMENTAL PROPERTIES
JACKET TEMPERATURE RATING: 75°C

ATTENUATION:

dB/100 Ft. (Nom.)	@ Frequency MHz
.50 dB	1 MHz
1.08 dB	5 MHz
1.49 dB	10 MHz
3.35 dB	50 MHz
4.75 dB	100 MHz
6.79 dB	200 MHz



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