

Central Office Products

735A COAXIAL CABLE

Application

- Intended for interconnection of transmission and switching systems equipment. Also suitable for general purpose studio wiring and patchcord use, due to its small diameter and high degree of flexibility.

Features

- UL listed as Type CMR and CSA certified as Type CMR.
- Suitable for DS3 (44.73 Mb/s) transmission rates with maximum reach of 225 ft. (70 m).
- Suitable for indoor use up to 75°C.
- Available in singles and bundles of 3, 6, 8, 9, 12, 14 and 24 (Other configurations available on request).



Construction Details

Conductor

- 26 AWG solid silver plated copper with nominal diameter of 0.0159 in (0.404 mm).

Insulation

- High Density foam polyolefin insulation. Nom diameter over insulation of 0.077 in (1.96 mm).

Jacket

- Overall gray polyvinyl-chloride jacket.
- Nominal cable outside diameter of 0.129 in.

Shield

- Aluminum/polyester tape longitudinally applied over the insulation. The aluminum side faces outward and is in contact with the overall braid shield.
- Overall braid shield comprised of 38 AWG tinned annealed copper applied with minimum coverage of 90%.

Electrical Characteristics

- Nominal electrical characteristics are shown in Table 1.

Packaging

- Standard shipping information is as shown in Table 2.

Table 1 - Electrical Characteristics

Max D.C. Con'dr Resistance	45 ohms/1000 ft at 20°C
Min Insulation Resistance	6 Gohms/1000 ft at 20°C
Nom Coaxial Capacitance	17.5 pF/ft at 1000 Hz
Dielectric Strength (con'dr to shield)	2.5 kV DC for 5 seconds
Nom Characteristic Impedance	75 ohms
Minimum SRL	30 dB between 15 and 95 MHz
Velocity of Propagation	75%

*Belcore technical audit
available on request*

735A COAXIAL CABLE

Table 1a – Nominal Attenuation

Frequency in MHz	Standard (Signal)	Attenuation (dB/100 ft) 735A
1.000		0.490
1.024	CEPT-1 (2.048 Mb/s)	0.520
4.224	CEPT-2 (8.448 Mb/s)	1.010
5.000		1.100
10.000		1.530
17.184	CEPT-3 (34.368 Mb/s)	2.020
22.368	DS-3 (44.730 Mb/s)	2.310
25.920	STS-1 (51.84 Mb/s)	2.490
44.736		3.280
50.000		3.470
69.632	CEPT (139.264 Mb/s)	4.110
77.760	STS-3 (155.52 Mb/s)	4.350
100.000		4.950
137.088	DS-4 (274.176 Mb/s)	5.820
200.000		7.080

Table 2 – Ordering Information

Type	Bundle Size	Product Code	Shield Type	Overall Diameter	Packaging	Product Weight
735A	1	BES 1288-1	Non-Bonded	.0129 inch 3.28 mm	1000 ft Spool	10.7 lb/kft
735A	3	BES 1288-3	Non-Bonded	0.335 inch 8.51 mm	Bulk	47.5 lb/kft
735A	6	BES 1288-6	Non-Bonded	0.465 inch 11.8 mm	Bulk	93.5 lb/kft
735A	8	BES 1288-8	Non-Bonded	0.500 inch 2. mm	Bulk	117 lb/kft
735A	9	BES 1288-9	Non-Bonded	0.557 inch 14.1 mm	Bulk	133 lb/kft
735A	12	BES 1288-12	Non-Bonded	0.600 inch 15.2 mm	Bulk	167 lb/kft
735A	16	BES 1288-16	Non-Bonded	0.645 inch 16.4 mm	Bulk	190 lb/kft
735A	17	BES 1288-17	Non-Bonded	0.715inch 18.2 mm	Bulk	263 lb/kft
735A	24	BES 1288-24	Non-Bonded	0.715 inch 18.2 mm	Bulk	310 lb/kft

Table 3 – Connector Cross-Reference

Manufacturer	BNC Part No.	Crimp Tool	Die Part No.	Die Size	Center Pin Tool	Center Pin Die Size
ADC	BNC-735	WT-1	WD-2	XXX	XXX	XXX
Amphenol	31-70013-1002	CTL-6	227-1221-9	XXX	XXX	XXX
AT & T	406133371	407060235	407060284	XXX	XXX	XXX
Gilbert	NS-5722-5	G-CRT-792	XXX	XXX	XXX	0.058 x 2213
Trompeter	UPL-220-026	CT-3	CD3-1	0.178 X 0.480	010-0055	XXX