BT Cables

Multi-way Coaxial Cable CX3002

75 Ohm Multi Core Coaxial Interconnection Cable Internal Cable (Complies with BT Specification CW1383/1407)

Application

This cable is a multi-way flexible cable made up of miniature coaxial cables and is suitable for the interconnection of telecommunication transmission equipment.

Product Description & Construction

The cable consists of 8 or 16 miniature 75 Ohm coaxial cables. Each individual miniature coaxial cable consists of a plain annealed copper inner conductor coated with a solid polyethylene dielectric Type 03 to BS6234, surrounded by two layers of braided copper wires and sheathed with polyvinyl chloride, Type TM1 to BS7655. The miniature coaxial cables are stranded around a PVC dummy center the cable is sheathed overall with polyvinyl chloride, Type TM1 to BS7655. Low Smoke Zero Halogen option is also available.

Dimensions of Multi-way Coaxial Cable

Number of Coaxial Elements in Cable	Diameter of PVC Dummy Center (mm)	Minimum Sheath Thickness (mm)	Maximum Overall Diameter (mm)	Minimum Bending Diameter (mm)
8	6.25	1.1	16.5	82.5
16	2.20	1.1	21.5	107.5

Dimensions of Single Miniature Coaxial Cable

Inner Conductor Diameter (mm)		Screen Layer 1 (mm)	Coverage (%)	Screen Layer 2 (mm)	Coverage (%)	Nominal Overall Diameter (mm)
0.31	1.95	2.40	91	2.85	90	3.55

Electrical Characteristics - General

Impedance	Resistance of Inner Conductor	Nominal Capacitance	Attenuation	Dielectric Withstand	Insulation Resistance
Ω @ 5MHz	Ω per 100 m	pF/m @ 1kHz	dB/100m maximum @ 5MHz	kV for 1 minute	$M\Omega/km$ Minimum after 1 minute
75.0 ± 4.0	23.6	67	4.8	3.5 (RMS) or 5.3 (DC)	20,000

Electrical Characteristics – Far-End Signal to Crosstalk Ratio

Frequency (MHz)	FESXTR Minimum
0.01	55
0.30	80
1.00	110
2.00	115
17.00	115

