ISDN CABLES: DIGITAL MULTI-PAIR BALANCED SCREENED STATION CABLE

For Integrated Services Digital Network (I.S.D.N.) Applications

Cable description:

Cable consists of a number of plain annealed copper conductors insulated with a dual extrusion comprising an inner layer of cellular polyethylene and an outer solid skin of non-halogenated, self-extinguishing compound, twisted pairs, individual and/or overall screened, laid up in concentric layers (except 32 pairs which consists of 8 pair cross-stranded units) and sheathed (except Jumper Wire) with low smoke and fume, halogen free thermoplastic

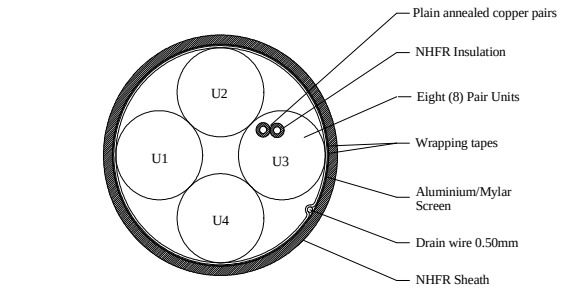
Construction details

Conductor: Plain annealed copper-0.5mm (24 AWG)
Insulation : Foam skin (PE/NHFR)
Pair identification:

Pair 1 White – Blue	Pair 9 Black – Blue
Pair 2 White – Orange	Pair 10 Black – Orange
Pair 3 White – Green	Pair 11 Black – Green
Pair 4 White – Brown	Pair 12 Black – Brown
Pair 5 Red – Blue	Pair 13 Yellow - Blue
Pair 6 Red – Orange	Pair 14 Yellow – Orange
Pair 7 Red – Green	Pair 15 Yellow – Green
Pair 8 Red – Brown	Pair 16 Yellow – Brown

Screen: Aluminium/ Polyethylene terephthalate
Drain wire: Tinned annealed copper – 0.50mm
Tape : Polyethylene terephthalate
Sheath: NHFR (Off white)

Cross sectional drawing



32 pair cable shown

Cable formation:

Up to 16 Pair : Pairs 1 to 16 (Concentric)
20 Pair : Pairs 1 to 8 (Twice) + Pairs 9 to 12 (Concentric)
32 Pair : Pairs 1 to 8 + Pairs 9 to 16 (Unitised)

Dimensions and mechanical performance

Number of Pairs	Individual Screen	Overall Screen	Nominal Outer Diameter (mm)	Nominal Weight (kg/km)	Minimum Bend Diameter (mm)	Maximum Tensile Strength (N)
1	Jumper Wire		2.2	5	50	40
1		X	4.5	24	70	40
2		X	4.9	31	75	75
2	X	X	7.3	51	110	75
4		X	7.2	53	110	150
4	X	X	8.9	79	135	150
8		X	8.9	82	135	300
10		X	9.4	94	140	375
16		X	12.2	142	185	600
20		X	13.4	169	200	750
32		X	16.3	238	245	1200
48		X	19.3	330	290	1800

Electrical characteristics

Maximum conductor resistance (Ω/100m)	9.5
Characteristic impedance (Ω) @ 1.024 MHz	120 ± 15
Maximum attenuation (dB/100m) @ 1.024 MHz	2
Minimum Pr-Pr FEXT (dB) (corrected to 250m length) @ 1.024 MHz	65
Mutual capacitance - maximum average (nF/100m)	5.0
Max. capacitance unbalance (corrected to 250m length) - Pair to earth (pF)	500

Specifications: AS/CA S008, AS1125 and AS1049

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