

XDSL Connecting Cables



Technical data

- Temperature rating: 70 °C
- Minimum bending radius
10 x cable diameter
- Maximum conductor resistance at 20 °C
96 Ohm/km
- Impedance at 0.3 – 1 MHz (Ohm): 100±20
- Impedance at 1 – 40 MHz (Ohm): 100±15
- Maximum Resistance Unbalance(%): 2
- Average mutual capacitance (nF/km): 52
- Maximum Capacitance Unbalance
at 1kHz pair-to-pair (pF/500m): 45
- Maximum Capacitance Unbalance
at 1kHz pair-to-ground (pF/500m): 400

Cable structure

- Conductors: Solid annealed bare copper sized 0.5 mm
- Insulation: PE
- Screen: Al-PET and tinned copper drain wire
- Nylon ripcord
- Sheath: PE

Application

The cables are designed for XDSL transmission system. It ensures data speeds up to 40 MHz.

No. of Pairs/Quads	Conductor Diameter mm	Sheath Thickness mm	Outer Diameter mm	Cable Weight kg/km
26	0.5	0.9	18.5	265
51	0.5	1.0	24.2	460
101	0.5	1.1	31.5	790
202	0.5	1.2	41.5	1415

Maximum Average Attenuation

at 0.1 MHz	dB/km	0.81
at 0.3 MHz	dB/km	1.15
at 0.6 MHz	dB/km	1.65
at 1.0 MHz	dB/km	2.10
at 4.0 MHz	dB/km	4.3
at 10 MHz	dB/km	6.6
at 16 MHz	dB/km	8.2
at 20 MHz	dB/km	9.2
at 31.25 MHz	dB/km	11.8
at 40 MHz	dB/km	13.9

Minimum ELFEXT pair-to-pair

at 0.16 MHz	dB	69
at 1 MHz	dB	55
at 20 MHz	dB	29
at 40 MHz	dB	23

Minimum NEXT pair-to-pair

at 0.16 MHz	dB	68
at 1 MHz	dB	59
at 20 MHz	dB	39
at 40 MHz	dB	35

Minimum Return Loss

at 1-20 MHz	dB/100m	23
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