

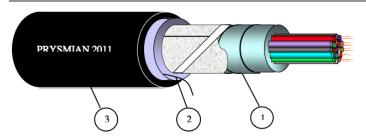
xDSL cables



Multi twisted pair 26 AWG cable

Aluminium shielded, for outdoor VDSL systems (OSP), TE 24x2x0.4 GH /H5E

Cable design



SCHEMATIC DRAWING - 24 PAIRS CABLE (without braid)

- 1 Screened 24 pair bundles
- 2 Non metallic rip cord
- 3 Outer HDPE sheath with Polylam moisture barrier under it

Cable construction

Conductor Annealed solid copper wire

Diameter 0.40 ± 0.01 (26AWG)

Insulation Polyethlylene compound

Minimum thickness 0.13 mm, nominal diameter 0.70 mm

Cabling element Pairs with lay length ≤ 40mm

Colour code According to IEC Publication 189/2, Appendix A and IEC Publication 304

Cable core The cable core is formed by 3 subunits of 8 pairs

Identification subunits Coloured tapes (blue-orange-green)

Wrapping tape PET tape 0.036 mm thickness helically applied

Screen (electrostatic) Grounding wire (tinned copper wire with diameter 0.4mm) and AL/PET tape with

thickness 50/25 µm, longitudinally applied

Non metallic rip cord

Moisure barrier
Outer sheath

Aluminium covered with copolymer on both sides

High density polyethylene (HDPE) black

Minimum thickness 1.4mm

Nominal diameter Sheath marking: 12mm ± 0.5mm PRYSMIAN (S) - aaaa

aaaa = production year (es. 2011) Interval 300 mm, color white

Note: Different printing legend available upon customer requirement

Mechnical and environmental properties

Minimum bending radius $\geq 10 \text{ x overall cable diameter (static)}$

≥ 15 x overall cable diameter (dynamic)

Temperature range Installation $-5^{\circ}C / +50^{\circ}C$

Operation (fixed installation) $-20^{\circ}\text{C} / +70^{\circ}\text{C}$ Storage and transportation $-30^{\circ}\text{C} / +50^{\circ}\text{C}$





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Electrical properties at 20°C

Loop resistance	Ohm/km	≤ 150
Insulation resistance	Mohmxkm	≥ 5000
Test voltage		1000 V_{AC} or 1500 V_{DC} 1 minute
Maximum mutual capacitance	nF/km	≤ 55
Capacitance unbalance at 800 Hz		
- Pair to pair	pF/500m	250
- Pair to ground	pF/500m	750
Characteristic impedance from 1 to 30 MHz	Ohm	100 ± 15
Attenuation		
1 MHz	dB/100m	3.0
4 MHz	dB/100m	5.5
10 MHz	dB/100m	9.0
16 MHz	dB/100m	11.5
20 MHz	dB/100m	12.5
30 MHz	dB/100m	15.5
Near end crosstalk		
1 MHz	dB	60
4 MHz	dB	51
10 MHz	dB	45
16 MHz	dB	42
20 MHz	dB	40.5
30 MHz	dB	37
Far end crosstalk		
1 MHz	dB/100m	60
4 MHz	dB/100m	51
10 MHz	dB/100m	45
16 MHz	dB/100m	42
20 MHz	dB/100m	40.5
30 MHz	dB/100m	37

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