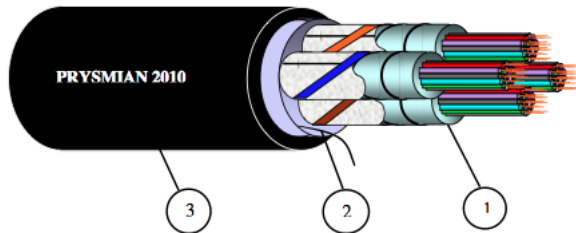


Multi twisted pair 26 AWG cable

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

Cable design



SCHMATIC DRAWING – 96 PAIRS CABLE (without braid)

- 1 Four screened 24 pair bundles
- 2 Non metallic rip cord
- 3 Outer HDPE sheath, with Polyam moisture barrier under it

Cable construction

Conductor	Annealed solid copper wire Diameter 0.40 ± 0.01 (26AWG)
Insulation	Polyethylene compound Minimum thickness 0.13 mm, nominal diameter 0.70 mm
Cabling element	Pairs with lay length ≤ 40 mm
Colour code	According to IEC Publication 189/2, Appendix A and IEC Publication 304
Cable unit	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 μ m, longitudinally applied
Identification units	Colored tapes (blue-orange-green-brown)
Cable core	Stranding of four screened 24 pair bundles
Non metallic rip cord	
Moisure barrier	Aluminium covered with copolymer on both sides
Outer sheath	High density polyethylene (HDPE) black Minimum thickness 1.4mm
Nominal diameter	$21\text{mm} \pm 0.5\text{mm}$
Sheath marking:	PRYSMIAN (S) - aaaa aaaa = production year (es. 2012) Interval 300 mm, color white

Mechanical and environmental properties

Minimum bending radius		≥ 10 x overall cable diameter (static) ≥ 15 x overall cable diameter (dynamic)
Temperature range	Installation	$-5^{\circ}\text{C} / +50^{\circ}\text{C}$
	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	Mohm×km	≥ 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