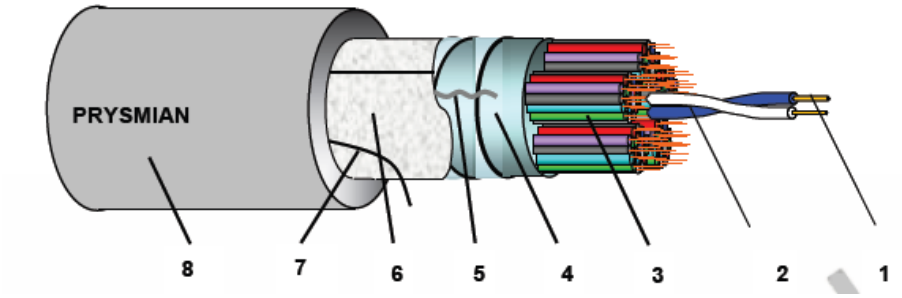
Multi-twisted pair cables for ADSL systems

Polyethylene compound insulated, aluminium shielded and LSOH sheathed

Cable design



1) Copper conductor
2) Polyethylene insulation
3) Subunit
4) Wrapping tape
5) Continuity wire
6) Screening foil
7) Rip cord
8) Outer LSOH sheath

Cable construction

Part number 60009667

Conductor:	Annealed solid copper wire Nominal diameter 0.40 ± 0.01mm
Insulation:	Polyethylene compound Average minimum thickness 0.15 mm
Cabling element:	Pairs with colour scheme as shown in table 1
Stranding of pairs:	The pairs are stranded into 3 subunits or 8 pairs to form a compact and circular cable core.
Subunit Identification:	Coloured tapes or threads as shown in table 2
Wrapping tape:	One or more synthetic tapes'
Continuity wire:	Tinned copper wire Nominal diameter 0.4 mm
Screen:	AL / PET tape (aluminium thickness ≥ 0.05 mm
Rip cord	
Outer sheath:	Low Smoke Halogen Free (LSOH) flame retardant Thermoplastic compound (Grey RAL7001) Thickness as shown in table 1
Overall dimensions:	See table 1

Sheath marking

PRYSMIAN (x) mm/yyyy **TE 24x2x0.4 GH/M LOT** ..... "metric" **M**

x = factory code
mmyy/yy = production month and year (es. 09/2007)
..... = production batch
color = blue or black

Code

TXDS/A4M
Part number: 60009667

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Electrical properties at 20 °C

Maximum D.C. conductor resistance		Ohm/km	≤ 153
Nominal mutual capacitance at 800 Hz		pF/m	50
Maximum capacitance unbalance		pF/500m	≤ 500
D.C. insulation resistance		Mohm x km	≥ 10000
D.C. voltage test: - conductors and screen		V dc x 60 sec	2500
Crosstalk at 1 MHz (NEXT and EL-FEXT)		dB/250m	≥ 55
Impedance	@ 150 kHz	ohm	120 +/- 15
Attenuation	@ 150 kHz	dB/km	≤ 14
	@ 300 kHz	dB/km	≤ 17
	@ 1000 kHz	dB/km	≤ 31
Spark test on outer sheath		kV ca	2

Fire performance

Flammability (single cable) according to CEI EN 60332-1-2

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Figure 1 - Dimensions and mechanical

Cable type	Schematic drawing	Sheath minimum thickness (mm)	Maximum cable diameter (mm)	Minimum bending radius (mm)	Maximum installation load (N)
TE 24x2x0.4 GH/M	Figure 1	0.6	11.0	75	360

Table 2 - Colour scheme

Sub-unit Number	Pairs Number	Colour of insulation		Sub-unit identification (lapping colour)
		a wire	b wire	
1	1	white	blue	Blue
	2	white	orange	
	3	white	green	
	4	white	brown	
	5	red	blue	
	6	red	orange	
	7	red	green	
	8	red	brown	
2	9	white	blue	orange
	10	white	orange	
	11	white	green	
	12	white	brown	
	13	red	blue	
	14	red	orange	
	15	red	green	
	16	red	brown	
3	17	white	blue	green
	18	white	orange	
	19	white	green	
	20	white	brown	
	21	red	blue	
	22	red	orange	
	23	red	green	
	24	red	brown	