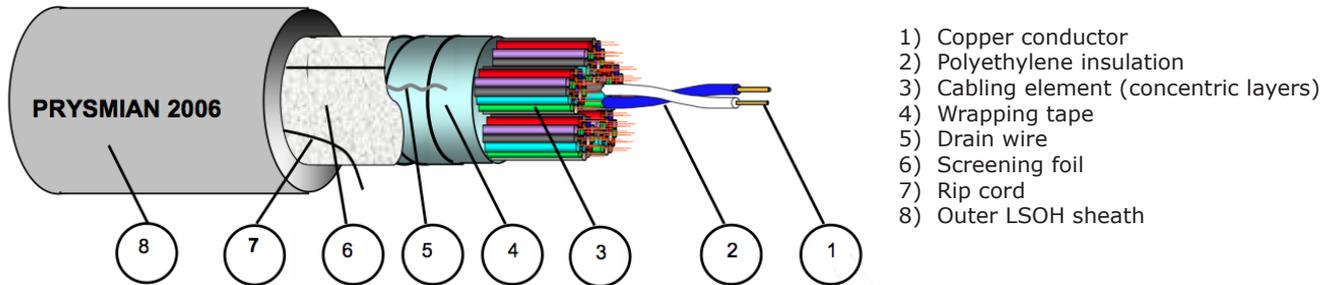


## Equipment cables

24 pairs - TE 24 x 2 x 0.4 HM - without braid

### Cable design

Optimised EMC Alu shielded multi twisted pair 26 AWG cable, for ADSL systems



### Cable construction 24 pairs = TE 24 x 2 x 0.4 HM

<b>Conductor:</b>	Annealed solid copper wire Diameter $0.40 \pm 0.01$ mm (AWG 26)
<b>Insulation:</b>	Halogen free polyethylene compound Minimum thickness: 0.13 mm Nominal diameter: 0.74 mm
<b>Cabling element:</b>	Pairs with lay length $\leq 75$ mm
<b>Colour code:</b>	According to IEC Publication 189/2, Appendix A and IEC Publication 304
<b>Stranding of pairs:</b>	Stranding of 24 pairs in 3 concentric layers to form a compact and circular bundle (Over each layer a binding of tape or threads is applied, as required to aid manufacture)
<b>Wrapping tape:</b>	One or more synthetic tapes; The tape is applied longitudinally with a slow-turn spiral and an overlap $\geq 20\%$
<b>Drain wire:</b>	Tinned copper wire, nominal diameter 0.4 mm
<b>Screen (electrostatic):</b>	ALU/PET/ALU tape with a total aluminium thickness $\geq 24$ $\mu\text{m}$ ; The tape is longitudinally with a slow-turn spiral and an overlap $\geq 40\%$
<b>Wrapping:</b>	Binding tapes (natural)
<b>Rip cord:</b>	Non-metallic rip cord
<b>Outer sheath:</b>	Low smoke halogen free (LSOH) flame retardant compound (Grey RAL7032) Minimum thickness: 0.6 mm
<b>Outer cable diameter:</b>	9.4 mm (nominal)

### Sheath marking

#### PRYSMIAN (x) - aaaa

x = factory code  
aaaa = production year (es. 2012)

Interval: 300 mm  
Color: blue or black

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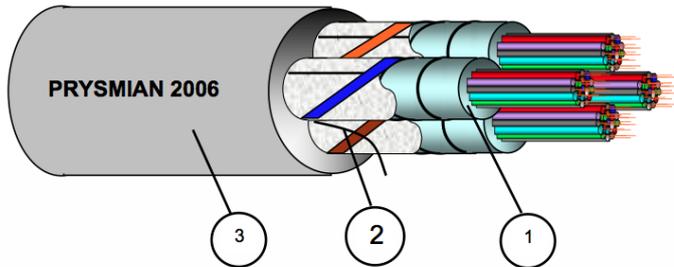
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## Equipment cables

96 pairs - TE 4 x (24 x 2 x 0.4H)G/M - without braid

### Cable design

Optimised EMC ALU shielded multi twisted pair 26 AWG cable, for ADSL systems



- 1) Four screened 24 pair bundles
- 2) Non metallic rip cord
- 3) Outer LSOH sheath

### Cable construction 96 pairs = TE 4 x (24 x 2 x 0.4 H)G/M

<b>Conductor:</b>	Annealed solid copper wire Diameter $0.40 \pm 0.01$ mm (AWG 26)
<b>Insulation:</b>	Halogen free polyethylene compound Minimum thickness: 0.13 mm Nominal diameter: 0.74 mm
<b>Cabling element:</b>	Pairs with lay length $\leq 75$ mm
<b>Colour code:</b>	According to IEC Publication 189/2, Appendix A and IEC Publication 304
<b>Stranding of pairs:</b>	Stranding of 24 pairs in 3 concentric layers to form a compact and circular bundle (Over each layer a binding of tape or threads is applied, as required to aid manufacture)
<b>Wrapping tape:</b>	One or more synthetic tapes; The tape is applied longitudinally with a slow-turn spiral and an overlap $\geq 20\%$
<b>Drain wire:</b>	Tinned copper wire, nominal diameter 0.4 mm
<b>Screen (electrostatic):</b>	ALU/PET/ALU tape with a total aluminium thickness $\geq 24 \mu\text{m}$ ; The tape is longitudinally with a slow-turn spiral and an overlap $\geq 40\%$
<b>Units identification:</b>	Coloured tapes (blue-orange-green-brown)
<b>Cable core:</b>	Stranding of four screened 24 pair bundles
<b>Rip cord:</b>	Non-metallic rip cord
<b>Outer sheath:</b>	Low smoke halogen free (LSOH) flame retardant compound (Grey RAL7032) Minimum thickness: 0.75 mm
<b>Outer cable diameter:</b>	21 mm (nominal)

### Sheath marking

#### PRYSMIAN (x) - aaaa

x = factory code  
aaaa = production year (es. 2012)

Interval: 300 mm  
Color: blue or black

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## Equipment cables

24 pairs and 96 pairs - 26 AWG - Without braid

### Electrical data at 20°C

<b>D.C. electrical resistance of each conductor:</b>	max. $\leq$ 146.8 Ohm / Km
<b>Voltage test for 1 minute:</b>	1000 V a.c. or 1500 V d.c.
<b>Insulation resistance:</b>	Min. $\geq$ 1000 Mohm*km
<b>Maximum mutual capacitance (500-2000 Hz):</b>	$\leq$ 70 nF/km
<b>Capacitance unbalance: pair to earth:</b>	99% values $\leq$ 750 pF/500 m 100% values $\leq$ 1500 pF/500 m
<b>Attenuation:</b>	$\leq$ 19 dB/km @ 300 kHz $\leq$ 33 dB/km @ 1 MHz $\leq$ 110 dB/km @ 10 MHz
<b>Near-end and Far-end crosstalk:</b>	$\geq$ 52 dB @ 1 MHz $\geq$ 37 dB @ 10 MHz
<b>Impedance:</b>	100 $\pm$ 15 ohm @ 1 and 10 MHz
<b>Transfer impedance @ 0.1-30 MHz:</b>	Less than or equal to the D.C. resistance of the screen

### Fire performance

Flammability (single cable) according to IEC 60332-1