

xDSL cables



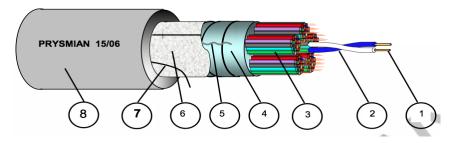
Multicore 32 pairs 0.4 mm cable

Aluminium shielded

Cable design

Reference: ALCATEL LUCENT code 1AC 02302 0002 TYCO part numbers 1820148-1

PRYSMIAN code 1820148



- 1) Copper conductor
- 2) Polyethylene insulation
- 3) Cabling element (4 groups of 8 pairs)
- 4) Wrapping tape
- 5) Drain wire
- 6) Screening foil
- 7) Rip cord
- 8) Outer sheath

Cable construction TE 32 x 2 0.4 GH/R

Conductor: Annealed solid copper wire

Diameter 0.40 mm (AWG 26)

Insulation: Polyethylene compound

Nominal thickness: 0.15 mm

Cabling element: Pairs with lay length \leq 45 mm

Colour code: Table 1

Stranding of pairs: 4 groups of 8 pairs

Group identification tape: white, blue, yellow, brown

Wrapping tape: One or more synthetic tapes

Drain wire: Tinned copper wire of 0.5 mm

Screen (electrostatic): ALU/PET/ALU tape with a total aluminium thickness ≥ 24 µm

The tape is applied longitudinally or with a slow-turn spiral

Rip cord: Rip cord

Outer sheath: PVC (Grey RAL7001)

Nominal thickness 1.0 mm

Outer cable diameter: Nominal 11 mm; maximum 12.4 mm

Net cable weigth: 150 kg/km

Minimum bending radius: 110 mm

Temperature range: 0 ÷ 50 ° C installations

-20 \div 70 ° C working

Environmental

 a) Fire Performance: Flammability (single cable) according IEC 60332-1 and NFC 32-070 category C2

b) The cable will be compliant to the RoHs directive 2002/95/EC

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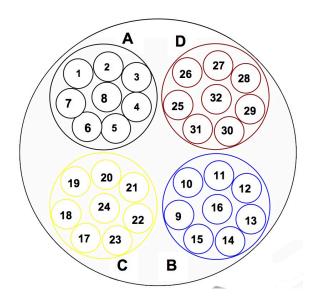
Sheath marking

metric ALCATEL LUCENT MULTICODE 32X2X0.4 -"UL number" CMR ww/aa - xxxxxxxxx - PRYSMIAN (f)

ww/aa = product week and year (es. 15/06) xxxxxxxxxx = cable code (1AC 02302 0002) f = factory code

Printing interval: 1m, color: blue or black

Table 1 - Colour scheme and position of the pairs



Electrical data at 20°C

D.C. electrical resistance of each conductor

Max. \leq 150 Ohm / Km

Voltage test for 1 minute 1000 V a.c. or 1500 V d.c.

Insulation resistance Min. ≥ 1000 Mohm*km

Impedance

100±20 ohm @ 700 kHz

Attenuation:

≤ 27 dB/km @ 700 kHz

Near-end and Far-end crosstalk

 \geq 50 dB @ 700 kHz \geq 35 dB @ 7 MHz

number Wire a Wire b 1 Light blue White 2 Light blue Dark blue 3 Light blue Yellow 4 Light blue Brown 5 Light blue Red 6 Light blue Green 8 Grey White 9 Grey Dark blue 10 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Prown 25 Violet Black 27 Viole	Pair number	Insulation colour		G
Light blue Dark blue 3 Light blue Yellow 4 Light blue Brown 5 Light blue Black 6 Light blue Red 7 Light blue Green 8 Grey White 9 Grey Dark blue 10 Grey Yellow 11 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 17 Orange 18 Orange 19 Orange Green 19 Orange Green 10 Orange Green 11 Orange Green 12 Orange Green 13 Orange Green 14 Orange Green 15 Orange Green 16 Orange Green 17 Orange Green 18 Orange Green 29 White Light blue 20 Orange 21 Orange Green 22 Violet Black 23 Violet Green 24 Violet Green 25 Oviolet Green 26 Oviolet Black 27 Oviolet Green 28 Oviolet Green 29 White Light blue 30 White Grey 31 White Orange		Wire a	Wire b	Group
3 Light blue Yellow 4 Light blue Brown 5 Light blue Black 6 Light blue Red 7 Light blue Green 8 Grey White 9 Grey Dark blue 10 Grey Yellow 11 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	1	Light blue	White	
4 Light blue Brown 5 Light blue Black 6 Light blue Red 7 Light blue Green 8 Grey White 9 Grey Dark blue 10 Grey Yellow 11 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Black 27 Violet Brown 29 White Green 29 White Green 29 White Light blue 30 White Grey 31 White Orange	2	Light blue	Dark blue	
5 Light blue Black 6 Light blue Red 7 Light blue Green 8 Grey White 9 Grey Dark blue 10 Grey Yellow 11 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Brown 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	3	Light blue	Yellow	
6 Light blue Red 7 Light blue Green 8 Grey White 9 Grey Dark blue 10 Grey Yellow 11 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Red 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Park blue 24 Violet Yellow 25 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	4	Light blue	Brown	
7 Light blue Green 8 Grey White 9 Grey Dark blue 10 Grey Yellow 11 Grey Brown 12 Grey Black 13 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Grey 30 White Grey 31 White Orange	5	Light blue	Black	(white)
Section	6	Light blue	Red	
9 Grey Dark blue 10 Grey Yellow 11 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	7	Light blue	Green	
10 Grey Yellow 11 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	8	Grey	White	
11 Grey Brown 12 Grey Black 13 Grey Red 14 Grey Green 15 Orange White 16 Orange Park blue 17 Orange Brown 18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	9	Grey	Dark blue	
12 Grey Black B (blue)	10	Grey	Yellow	
13 Grey Red (blue) 14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Prown 18 Orange Brown 19 Orange Red 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	11	Grey	Brown	
14 Grey Green 15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Red 20 Orange Green 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	12	Grey	Black	
15 Orange White 16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Red 20 Orange Green 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Green 29 White Light blue 30 White Orange	13	Grey	Red	(blue)
16 Orange Dark blue 17 Orange Yellow 18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	14	Grey	Green	
17 Orange Yellow 18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	15	Orange	White	
18 Orange Brown 19 Orange Black 20 Orange Red 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	16	Orange	Dark blue	
19 Orange Black 20 Orange Red C (yellow) 21 Orange Green 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Orange	17	Orange	Yellow	
20	18	Orange	Brown	
21 Orange Green (yellow) 22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Orange	19	Orange	Black	
22 Violet White 23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	20	Orange	Red	С
23 Violet Dark blue 24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	21	Orange	Green	(yellow)
24 Violet Yellow 25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	22	Violet	White	
25 Violet Brown 26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	23	Violet	Dark blue	
26 Violet Black 27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	24	Violet	Yellow	
27 Violet Red 28 Violet Green 29 White Light blue 30 White Grey 31 White Orange	25	Violet	Brown	
28 Violet Green 29 White Light blue (brown) 30 White Grey 31 White Orange	26	Violet	Black	
29 White Light blue (brown) 30 White Grey 31 White Orange	27	Violet	Red	
30 White Grey 31 White Orange	28	Violet	Green	
31 White Orange	29	White	Light blue	(brown)
<u> </u>	30	White	Grey	
32 White Violet	31	White	Orange	
	32	White	Violet	

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