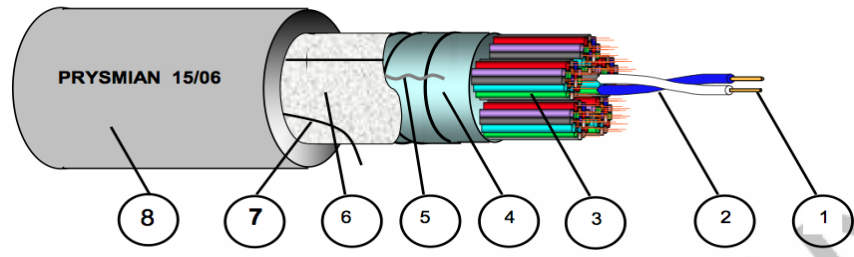


## Multicore 32 pairs 0.4 mm cable

Aluminium shielded

### Cable design

Reference: ALCATEL LUCENT code 1AC 02302 0002  
TYCO part numbers 1820148-1  
PRYSMIAN code 5003167



- 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

<b>Conductor:</b>	Annealed solid copper wire Diameter 0.40 mm (AWG 26)
<b>Insulation:</b>	Polyethylene compound Nominal thickness: 0.15 mm
<b>Cabling element:</b>	Pairs with lay length $\leq$ 45 mm
<b>Colour code:</b>	Table 1
<b>Stranding of pairs:</b>	4 groups of 8 pairs
<b>Group identification tape:</b>	white, blue, yellow, brown
<b>Wrapping tape:</b>	One or more synthetic tapes
<b>Drain wire:</b>	Tinned copper wire of 0.5 mm
<b>Screen (electrostatic):</b>	ALU/PET/ALU tape with a total aluminium thickness $\geq$ 24 $\mu$ m The tape is applied longitudinally or with a slow-turn spiral
<b>Rip cord:</b>	Rip cord
<b>Outer sheath:</b>	PVC (Grey RAL7001) Nominal thickness 1.0 mm
<b>Outer cable diameter:</b>	Nominal 11 mm; maximum 12.4 mm
<b>Net cable weight:</b>	150 kg/km
<b>Minimum bending radius:</b>	110 mm
<b>Temperature range:</b>	0 $\div$ 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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## Multicore 32 pairs 0.4 mm cable

Aluminium shielded

### Sheath marking

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

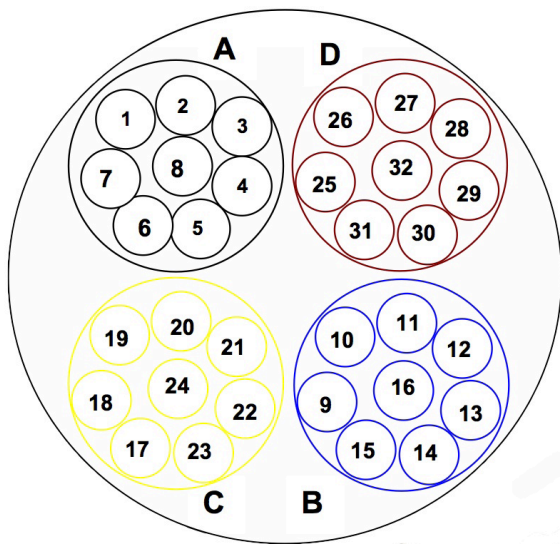
ww/aa = product week and year (es. 15/06)

xxxxxxxx = cable code (1AC 02302 0002)

f = factory code

Printing interval: 1m, color: blue or black

**Table 1 - Colour scheme and position of the pairs**



Pair number	Insulation colour		Group
	Wire a	Wire b	
1	Light blue	White	A (white)
2	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	B (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	C (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	D (brown)
26	Violet	Black	
27	Violet	Red	
28	Violet	Green	
29	White	Light blue	
30	White	Grey	
31	White	Orange	
32	White	Violet	

### Electrical data at 20°C

**D.C. electrical resistance of each conductor**

Max. ≤ 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**

≥ 50 dB @ 700 kHz

≥ 35 dB @ 7 MHz

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