

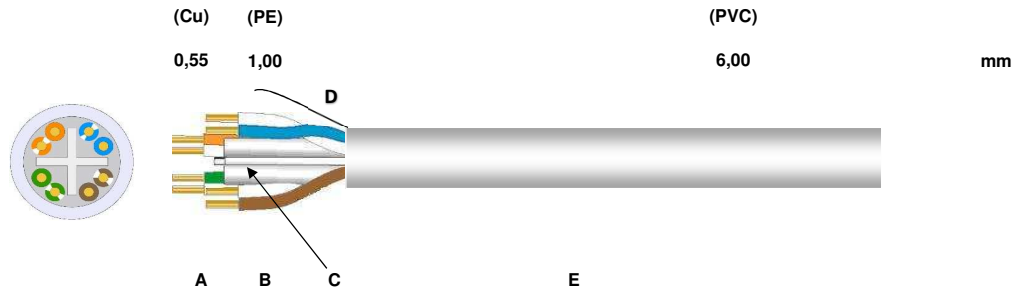
**CABLE DESIGN SHEET**

**CABLE DESCRIPTION:**  
Cat. 6A U/UTP 4x2xAWG23/1 PVC sheath



**CABLE CODE:**  
LAN6ANV (Rev.1)

**FIRE CLASS:** Eca



**CONSTRUCTION DATA:**

**DIMENSIONS:**

- |                                             |       |   |            |    |
|---------------------------------------------|-------|---|------------|----|
| A. 4 pairs of bare copper wires             | (Cu)  | φ | 0,55       | mm |
| B. Insulation of solid Polyethylene.        | (PE)  | φ | 1,00       | mm |
| C. Cross separator in Polyethylene.         | (PE)  |   |            |    |
| D. Nylon Ripcord under sheath               |       |   |            |    |
| E. Outer Sheath of white Polyvinylchloride. | (PVC) |   | 6,00 ± 0,4 | mm |

printed each meter:  
**CAVEL LAN6ANV Cat. 6A U/UTP 4x2xAWG23 - Euroclass Eca ISO-IEC 11801 EN50173**  
**CEI-UNEL 36762 C-4 (U0 =400V) dddyy - meter marking**  
(dddy=batch)

Weight of copper conductors (approx):	19,0	Kg/Km	Bending radius (1/n):	60/35	mm
Total weight of cable (approx.) :	40,0	Kg/Km	Operating temperature:	-15/+75	°C

**ELECTRICAL DATA:**

Characteristic Impedance (100 MHz):	100 ± 5	Ohm	Insulation resistance:	>5000	MΩ x km
Mutual capacitance (800 Hz) :	56	pF/m	Loop Resistance :	188	Ohm/Km

Frequency (MHz)	Attenuation (dB/100m)	Next (dB)	acr-n (dB/100m)	SRL (dB)
4	3,8	65,3	64,5	23
10	5,9	59,3	53,4	25
20	8,4	54,8	46,4	25
31,2	10,5	51,9	41,4	23,6
62,5	15	47,4	32,4	21,5
100	19,1	44,3	25,2	20,1
200	27,6	39,8	12,2	18
250	31,1	38,3	7,2	17,3
300	34,3	37,1	2,8	16,8
400	40,1	35,3	----	15,9
500	45,3	34,8	----	15,2

**STANDARDS:**

ISO/IEC 11801 Class Ea; CEI-UNEL 36762

**ITALIANA CONDUTTORI s.r.l**

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Date

Oct. 24,2024

Responsible

P.Piccinini