

	SPECIFICA TECNICA TECHNICAL SPECIFICATION	
	<i>Mod. TEC-tds-0 N°0022.17 Rev.01</i>	

Technical specification for signalling and control cables, 1 kV nominal tension, with solid copper conductors 1,5 or 2,5 mm², XLPE insulation, steel armour and PVC jacket, for fixed installation. Reference standard NBN HD603 Part 6. EN 50575:2014+A1:2016 - Class Cca-s3-d2-a3

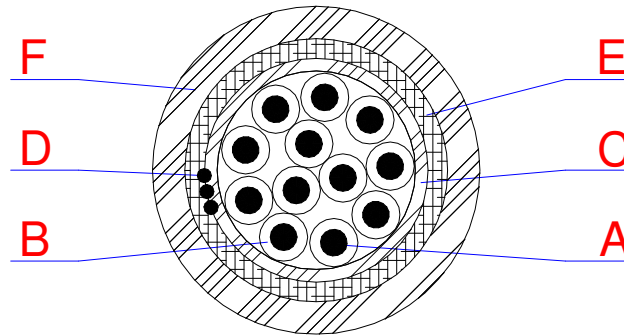
Signalling and control cables SXAVB Cca 1,5 or 2,5 mm² according to NBN HD603 Part 6

For duct or pipe, underground and in air installation

1. Application

The cables are suitable for transmission of various signals and controls, with nominal tension of 1 kV. The cables are suitable for fixed installation in indoor or outdoor environment, in cable duct or pipe, underground, in open air.

2. Cable section and makeup



Cable designation : **SXAVB Cca 12x1,5 mmq**

- A) Conductor: solid bare copper wire, nominal cross-section 1,5 or 2,5 mm²
 - B) Insulation: XLPE compound, colour black, with printed white numbers
- Core assembling: required number of insulated conductors are stranded into a compact and symmetrical core.
- C) Core covering: wrapping tapes or extruded layer
 - D) Ground wire: solid copper wire, nominal cross-section equivalent to that of conductor - only for steel tape armoured cables
 - E) Armour: galvanized steel wires helically applied or double layer of steel tape
 - F) Jacket: FR PVC compound, colour Grey RAL 7001

3. Marking

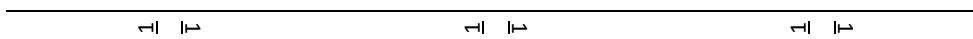
The cable jacket will be marked with ink-jet method, in blue/black colour and with the following text: Cable designation – Standard – Manufacturing year – Metric marking.

Example:

0001 m	EUROCAVI - SXAVB 12X1,5 mmq – EN50575:2014+A1:2016 - Class Cca-s3-d2-a3 – 35/2017	0002 m
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4. Conductor coding

Black Insulated conductors, numbered from 1 to “n” in white color, using the following shape:



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5. Construction, weight and diameter

Cable designation	Number of conductors and size	Armoure		Jacket thickness (mm)	Approximate weigth (kg/km)	Outer diameter (mm)
		Steel wire diameter (mm)	Steel tape thickness (mm)			
SXAVB Cca 5x1,5 mmq	5 x 1,5 mm ²	1,2		1,8	520	16,5
SXAVB Cca 7x1,5 mmq	7 x 1,5 mm ²	1,2		1,8	580	17,5
SXAVB Cca 10x1,5 mmq	10 x 1,5 mm ²	1,2		2,0	770	21,0
SXAVB Cca 12x1,5 mmq	12 x 1,5 mm ²		0,5	2,0	720	21,5
SXAVB Cca 19x1,5 mmq	19 x 1,5 mm ²		0,5	2,0	950	24,0
SXAVB Cca 24x1,5 mmq	24 x 1,5 mm ²		0,5	2,0	1170	27,0
SXAVB Cca 27x1,5 mmq	27 x 1,5 mm ²		0,5	2,0	1200	27,5
SXAVB Cca 37x1,5 mmq	37 x 1,5 mm ²		0,5	2,2	1500	30,5
SXAVB Cca 48x1,5 mmq	48 x 1,5 mm ²		0,5	2,2	1950	34,5
SXAVB Cca 52x1,5 mmq	52 x 1,5 mm ²		0,5	2,2	2100	35,5
SXAVB Cca 5x2,5 mmq	5 x 2,5 mm ²	1,2		1,8	580	17,5
SXAVB Cca 7x2,5 mmq	7 x 2,5 mm ²	1,2		1,8	680	18,5
SXAVB Cca 10x2,5 mmq	10 x 2,5 mm ²		0,5	2,0	830	22,5
SXAVB Cca 12x2,5 mmq	12 x 2,5 mm ²		0,5	2,0	930	23,5
SXAVB Cca 19x2,5 mmq	19 x 2,5 mm ²		0,5	2,0	1220	26,0
SXAVB Cca 27x2,5 mmq	27 x 2,5 mm ²		0,5	2,2	1600	30,5
SXAVB Cca 37x2,5 mmq	37 x 2,5 mm ²		0,5	2,2	2000	33,5
SXAVB Cca 48x2,5 mmq	48 x 2,5 mm ²		0,5	2,2	2580	38,0
SXAVB Cca 50x2,5 mmq	50 x 2,5 mm ²		0,5	2,2	2650	38,5

6. Electrical characteristics at 20° C

Characteristic	U.M.	1,5 mm ² conductor	2,5 mm ² conductor
Conductor resistance	Ohm/km	≤ 12,1	≤ 7,28
Test voltage - wire to wire	kV c.a.	4	4
Insulation resistance	MΩm*km	≥ 100	≥ 100
Nominal working tension	V	1000	1000

7. Mechanical and environmental properties

Minimum bending radius		12 x cable diameter
Temperature range	during operation	-20° C to +70° C
	during installation	0° C to +50° C

Classification according to EN 50575:2014+A1:2016 - Class Cca-s3-d2-a3 (DoP IT20170060)

01	24/09/2018	Aggiunto cavo 50x2.5 / Add 50x2.5 size		
0	11/12/2017	Prima emissione / First issue		
Rev.	Data / Date:	Descrizione modifiche / Changes description	Emesso / Issued	Approvato / Approved