



INNOVCABLE CONTROL CABLE SB XLPE-HEPR/PVC - NBR 7290



- 1) Stranded conductor formed by electrolytic bare copper wires, soft temper, class 5 NBR NM 280 stranding.
- 2) Composite insulation (HEPR - ethylene-propylene rubber) or XLPE 90°C.
- 3) Polyester tape separator.
- 4) Thermoplastic compound covering based on polyvinyl chloride (PVC/ ST1).

- Insulation voltage:

Up to 1,0mm² - 500V

From 1,50mm² to 10,00mm² - 1000V

- Routine tests:

Electrical resistance of the conductor at 20°C

Electric tension in Alternate Current

Insulation resistance.

Identification

Black or white veins numbered sequentially, can be manufactured on customer request with a green track (protective conductor). It can also be built with coloured veins.

Applicable Specifications



ABNT/MERCOSUR: NM-280 and NM-IEC

NBR NM IEC 60332-3-23 (Category B)

ABNT: NBR 7290 - Control cables with XLPE, EPR or HEPR extruded insulation for voltages up to 1 kV - Performance requirements

ABNT: NBR 6251

Applications

They are used in fixed installations in control, command and signalling circuits of electrical equipment, structured cabling, machine connections, push buttons, power supply, microprocessor systems, in the automation of substations, power plants, industrial and chemical areas, among others.

They are applied in fixed conduit systems (embedded or exposed), ducts, duct banks, cable trays, electrical panels, among other applications. This cable has good flexibility, resistance to UV, bad weather, humidity and certain chemicals.

Maximum Conductor Temperature

In steady state: +90°C

Maximum short circuit temperature: +250°C (5s)

Notes

The INNOVCABLE Control Cable SB XLPE-HEPR/PVC - NBR 7290, can be manufactured in another section, dimensional or material at the customer's request. Innovcable reserves the right to modify this catalogue without prior notice.

OTHER CONSTRUCTION OPTIONS:

We can manufacture on request in other configurations.

1- Tinned Copper Conductor.

Class 2 stranding.



2- Different sections and number of veins, maximum up to:

- 71 x 0,50mm² / 71 x 2,50mm²
- 52 x 4,00mm² / 52 x 4,00mm².
- 42 x 6,00mm²
- 20 x 10,0mm²

3- Vein insulation material / other temperatures:

PVC/E -105°C

PVC/A - 70 °C

PE - 80 °C

4- Material of the intermediate layer and the cover:

PE

PVC/E

PVC/ST2

Special PVC resistant to oils, grease and other chemicals.

LSZH (non-halogenated polyolefin compound).

5- Perfectly cylindrical cover for cable gland applications in classified areas (Ex)



CABO DE CONTROLE SB HEPR OU XLPE/PVC NBR 7290			
DADOS DIMENSIONAIS			
SEÇÃO NOMINAL - 0,50 mm²			
Número de Condutores		Diâmetro Externo	Peso Nominal
		mm	(kg/km)
2		6,77	48,73
3		6,90	56,66
4		7,46	70,89
5		8,09	85,74
6		8,74	98,37
7		8,74	103,38
8		9,42	116,11
9		11,17	146,86
10		11,67	163,62
11		11,67	168,64
12		11,88	179,24
13		12,45	196,66
14		12,45	201,67
15		13,08	223,92
16		13,08	228,94
17		13,74	246,90
18		13,74	251,93
19		13,74	256,94
20		14,62	281,94
21		15,28	295,81
22		15,28	305,24
23		16,13	324,85
24		15,95	328,69
25		16,46	345,92

CABO DE CONTROLE SB HEPR OU XLPE/PVC NBR 7290			
DADOS DIMENSIONAIS			
SEÇÃO NOMINAL - 0,75 mm²			
Número de Condutores		Diâmetro Externo	Peso Nominal
		mm	(kg/km)
2		6,98	53,68
3		7,35	67,94
4		7,97	85,61
5		8,65	103,62
6		9,37	119,57
7		9,37	127,60
8		10,11	143,67
9		11,57	167,67
10		12,12	187,20
11		12,54	206,95
12		12,75	220,98
13		13,37	241,77
14		13,37	249,79
15		14,07	275,44
16		14,07	283,48
17		14,79	304,86
18		14,79	312,90
19		14,79	320,93
20		15,74	349,90
21		16,45	367,21
22		16,45	379,66
23		17,39	402,84
24		17,20	409,58
25		17,75	430,16



CABO DE CONTROLE SB HEPR OU XLPE/PVC NBR 7290			
DADOS DIMENSIONAIS			
SEÇÃO NOMINAL - 1,00 mm ²			
Número de Condutores		Diâmetro Externo	Peso Nominal
		mm	(kg/km)
2		7,33	61,32
3		7,73	78,65
4		8,40	99,62
5		9,13	120,68
6		9,90	139,84
7		9,90	150,80
8		10,70	170,08
9		12,27	197,56
10		12,86	220,23
11		13,28	243,63
12		13,49	260,95
13		14,16	284,97
14		14,16	295,93
15		14,90	324,85
16		14,90	335,83
17		15,68	360,48
18		15,68	371,46
19		15,68	382,43
20		16,68	415,14
21		17,45	435,76
22		17,45	451,14
23		18,46	477,74
24		18,25	487,32
25		18,84	511,12

CABO DE CONTROLE SB HEPR OU XLPE/PVC NBR 7290			
DADOS DIMENSIONAIS			
SEÇÃO NOMINAL - 1,50 mm ²			
Número de Condutores		Diâmetro Externo	Peso Nominal
		mm	(kg/km)
2		8,73	85,04
3		9,24	111,34
4		10,09	142,19
5		11,02	172,13
6		12,00	200,75
7		12,00	220,16
8		13,02	248,94
9		15,01	286,94
10		15,77	318,85
11		16,19	353,45
12		16,40	380,59
13		17,25	414,20
14		17,25	433,61
15		18,19	472,24
16		18,19	491,67
17		19,18	526,09
18		19,18	545,52
19		19,18	564,92
20		20,40	609,21
21		21,38	639,70
22		21,38	663,52
23		22,66	700,41
24		22,39	718,06
25		23,15	751,40



CABO DE CONTROLE SB HEPR OU XLPE/PVC NBR 7290			
DADOS DIMENSIONAIS			
SEÇÃO NOMINAL - 2,50 mm ²			
Número de Condutores		Diâmetro Externo	Peso Nominal
		mm	(kg/km)
2		9,62	110,82
3		10,20	148,16
4		11,17	190,61
5		12,23	231,54
6		13,34	271,51
7		13,34	301,61
8		14,49	341,77
9		16,76	391,81
10		17,61	434,91
11		18,03	481,98
12		18,24	520,70
13		19,21	565,75
14		19,21	595,85
15		20,29	646,00
16		20,29	676,12
17		21,40	722,09
18		21,40	752,21
19		21,40	782,31
20		22,76	839,31
21		23,88	881,41
22		23,88	915,92
23		25,33	964,70
24		25,03	992,80
25		25,89	1037,53

CABO DE CONTROLE SB HEPR OU XLPE/PVC NBR 7290			
DADOS DIMENSIONAIS			
SEÇÃO NOMINAL - 4,00 mm ²			
Número de Condutores		Diâmetro Externo	Peso Nominal
		mm	(kg/km)
2		11,78	164,95
3		12,49	220,96
4		14,31	305,76
5		14,98	343,69
6		16,36	403,58
7		16,36	451,01
8		17,78	511,17
9		20,57	583,79
10		21,63	646,20
11		21,63	693,66
12		21,84	751,42
13		23,03	815,23
14		23,03	862,66
15		24,36	931,74
16		24,36	979,19
17		25,73	1044,13
18		25,73	1091,59
19		25,73	1139,02
20		27,36	1217,24
21		28,73	1278,44
22		28,73	1330,29
23		30,52	1398,69
24		30,15	1443,65
25		31,21	1507,07



CABO DE CONTROLE SB HEPR OU XLPE/PVC NBR 7290			
DADOS DIMENSIONAIS			
SEÇÃO NOMINAL - 6,00 mm ²			
Número de Condutores		Diâmetro Externo	Peso Nominal
		mm	(kg/km)
2		13,05	218,09
3		13,86	297,49
4		15,21	385,40
5		16,70	467,90
6		18,27	551,73
7		18,27	621,98
8		19,88	706,11
9		23,07	803,84
10		24,27	889,93
11		24,27	960,20
12		24,48	1042,05
13		25,83	1129,72
14		25,83	1199,97
15		27,35	1293,04
16		27,35	1363,31
17		28,91	1452,28
18		28,91	1522,55
19		28,91	1592,80
20		30,74	1696,71
21		32,30	1782,04
22		32,30	1856,70
23		34,34	1949,62
24		33,92	2017,05
25		35,12	2104,29

CABO DE CONTROLE SB HEPR OU XLPE/PVC NBR 7290			
DADOS DIMENSIONAIS			
SEÇÃO NOMINAL - 10,00 mm ²			
Número de Condutores		Diâmetro Externo	Peso Nominal
		mm	(kg/km)
2		15,71	343,57
3		16,68	471,03
4		18,30	611,20
5		20,08	741,05
6		21,95	875,10
7		21,95	991,09
8		23,88	1125,60
9		27,69	1278,17
10		29,12	1413,44
11		29,12	1529,45
12		29,12	1645,44