



## INNOVCABLE CONTROL CABLE BFA



- 1) Stranded conductor formed by electrolytic bare copper wires, soft temper, class 5 NBR NM 280 stranding.
- 2) Polyvinyl chloride based thermoplastic compound (PVC/A) insulation.
- 3) Polyester tape separator.
- 4) Intermediate layer in thermoplastic compound based on polyvinyl chloride (PVC /ST1).
- 5) Galvanized steel tape shield
- 6) Non-hygroscopic tape
- 7) Covering in thermoplastic compound based on polyvinyl chloride (PVC/ST1).

- Insulation voltage:

Up to 1,0mm<sup>2</sup> - 500V

From 1,50mm<sup>2</sup> to 10,00mm<sup>2</sup> - 1000V

- Routine tests:

Electrical resistance of the conductor at 20°C

Electric tension in Alternate Current

Insulation resistance.

### Identification

Sequentially numbered white veins, 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 (when manufactured with insulation/end cap in XLPE or HEPR/PVC-change codes)

ABNT: NBR 13248 (when manufactured with insulation/end cap in HEPR/LSZH-change codes).

ABNT: NBR 7289 (when manufactured with PVC/PVC insulation/end cap - codes indicated in the table below)

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 systems of conduits (embedded or exposed), ducts, duct banks, electro-roof gutters, electrical panels, among other applications. They are mechanically protected by galvanized steel strips. This cable has good flexibility, resistance to UV, bad weather, humidity and certain chemicals.

## Maximum Conductor Temperature

IN CONTINUOUS REGIME: 70°C  
IN SHORT-CIRCUIT MODE: 160°C  
- Flameproof



flame-retardant / self-extinguishing - meets the flame-retardance requirement in accordance with IEC 60332-3-23 (Category B)

## Notes

The BFA CONTROL CABLE can be manufactured in other sections, dimensions or materials at the customer's request. Innovcable reserves the right to modify this catalogue without prior notice.

### CONSTRUCTION OPTIONS

We can manufacture other configurations on request.

1- Tinned Copper Conductor.

Class 2 stranding.

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

- 71 x 0,50mm<sup>2</sup> / 71 x 2,50mm<sup>2</sup>

- 52 x 4,00mm<sup>2</sup> / 52 x 4,00mm<sup>2</sup>.

- 42 x 6,00mm<sup>2</sup>

- 20 x 10,0mm<sup>2</sup>

3- Vein insulation material / other temperatures:

PVC/E -105°C

XLPE - 125 °C

HEPR - 90 °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- Cover perfectly cylindrical for applications with cable glands in classified areas (Ex)



CABO DE CONTROLE SB FA PVC/PVC				
DADOS DIMENSIONAIS				
SEÇÃO NOMINAL - 0,50 mm <sup>2</sup>				
Código do Produto	Número de Condutores		Diâmetro Externo	Peso Nominal
			mm	(kg/km)
804183	2		8,52	120,55
804184	3		8,79	136,52
804185	4		9,60	175,08
804186	5		9,75	191,31
804187	6		10,28	206,86
804188	7		10,28	216,32
804189	8		10,83	234,22
804190	9		12,32	275,41
804191	10		12,73	296,44
804192	11		12,73	304,45
804193	12		12,94	320,44
804194	13		13,40	341,31
804195	14		13,40	348,96
804196	15		13,91	374,40
804197	16		13,91	381,75
804198	17		14,44	402,78
804199	18		14,44	409,65
804200	19		14,44	416,66
804201	20		15,19	447,03
804202	21		15,72	463,43
804203	22		15,72	474,48
804204	23		15,72	489,93
804205	24		15,72	496,41
804206	25		15,72	511,69

CABO DE CONTROLE SB FA PVC/PVC				
DADOS DIMENSIONAIS				
SEÇÃO NOMINAL - 0,75 mm <sup>2</sup>				
Código do Produto	Número de Condutores		Diâmetro Externo	Peso Nominal
			mm	(kg/km)
804232	2		8,94	133,37
804233	3		9,24	153,17
804234	4		10,15	198,30
804235	5		10,32	217,85
804236	6		10,91	237,17
804237	7		10,91	250,22
804238	8		11,52	272,18
804239	9		13,14	319,03
804240	10		13,60	343,97
804241	11		13,60	355,38
804242	12		13,81	375,39
804243	13		14,32	400,13
804244	14		14,32	411,15
804245	15		14,89	440,50
804246	16		14,89	451,17
804247	17		15,49	476,11
804248	18		15,49	486,24
804249	19		15,49	496,54
804250	20		16,31	531,57
804251	21		16,90	551,85
804252	22		16,90	566,14
804253	23		16,90	584,82
804254	24		16,90	594,52
804255	25		16,90	613,02



CABO DE CONTROLE SB FA PVC/PVC				
DADOS DIMENSIONAIS				
SEÇÃO NOMINAL - 1,00 mm <sup>2</sup>				
Código do Produto	Número de Condutores		Diâmetro Externo	Peso Nominal
			mm	(kg/km)
804281	2		9,29	145,01
804282	3		9,63	168,43
804283	4		10,62	219,51
804284	5		10,80	242,27
804285	6		11,44	265,17
804286	7		11,44	281,63
804287	8		12,11	307,42
804288	9		13,84	359,45
804289	10		14,34	388,08
804290	11		14,34	402,76
804291	12		14,55	426,56
804292	13		15,11	454,98
804293	14		15,11	469,23
804294	15		15,73	502,27
804295	16		15,73	516,14
804296	17		16,38	544,77
804297	18		16,38	558,06
804298	19		16,38	571,52
804299	20		17,25	610,89
804300	21		17,90	634,83
804301	22		17,90	652,25
804302	23		17,90	674,06
804303	24		17,90	686,87
804304	25		17,90	708,49

CABO DE CONTROLE SB FA PVC/PVC				
DADOS DIMENSIONAIS				
SEÇÃO NOMINAL - 1,50 mm <sup>2</sup>				
Código do Produto	Número de Condutores		Diâmetro Externo	Peso Nominal
			mm	(kg/km)
804330	2		9,85	164,70
804331	3		10,23	194,53
804332	4		11,35	255,66
804333	5		11,56	284,15
804334	6		12,28	313,39
804335	7		12,28	335,93
804336	8		13,04	368,43
804337	9		14,94	429,30
804338	10		15,50	464,45
804339	11		15,50	484,96
804340	12		15,71	515,41
804341	13		16,34	550,31
804342	14		16,34	570,34
804343	15		17,05	609,89
804344	16		17,05	629,49
804345	17		17,78	664,63
804346	18		17,78	683,57
804347	19		17,78	702,72
804348	20		18,74	749,59
804349	21		19,47	780,01
804350	22		19,47	803,04
804351	23		19,47	830,48
804352	24		19,47	848,88
804353	25		19,47	876,08



CABO DE CONTROLE SB FA PVC/PVC				
DADOS DIMENSIONAIS				
SEÇÃO NOMINAL - 2,50 mm <sup>2</sup>				
Código do Produto	Número de Condutores		Diâmetro Externo	Peso Nominal
			mm	(kg/km)
804379	2		11,58	220,05
804380	3		12,10	267,01
804381	4		13,61	356,36
804382	5		13,89	399,95
804383	6		14,88	446,11
804384	7		14,88	484,76
804385	8		15,90	535,34
804386	9		18,33	620,82
804387	10		19,09	673,42
804388	11		19,09	709,32
804389	12		19,30	757,63
804390	13		20,16	809,89
804391	14		20,16	845,14
804392	15		21,11	902,15
804393	16		21,11	936,82
804394	17		22,10	989,41
804395	18		22,10	1023,18
804396	19		22,10	1057,22
804397	20		23,33	1124,63
804398	21		24,32	1172,39
804399	22		24,32	1210,14
804400	23		24,32	1252,29
804401	24		24,32	1285,33
804402	25		24,32	1327,16

CABO DE CONTROLE SB FA PVC/PVC				
DADOS DIMENSIONAIS				
SEÇÃO NOMINAL - 4,00 mm <sup>2</sup>				
Código do Produto	Número de Condutores		Diâmetro Externo	Peso Nominal
			mm	(kg/km)
804428	2		12,88	275,28
804429	3		13,46	337,98
804430	4		15,18	451,86
804431	5		15,49	509,56
804432	6		16,62	571,27
804433	7		16,62	624,86
804434	8		17,78	691,31
804435	9		20,48	798,25
804436	10		21,34	866,76
804437	11		21,34	916,98
804438	12		21,55	981,12
804439	13		22,52	1049,19
804440	14		22,52	1098,61
804441	15		23,61	1171,48
804442	16		23,61	1220,21
804443	17		24,73	1288,67
804444	18		24,73	1336,31
804445	19		24,73	1384,29
804446	20		26,10	1469,34
804447	21		27,22	1532,85
804448	22		27,22	1584,38
804449	23		27,22	1640,30
804450	24		27,22	1687,06
804451	25		27,22	1742,61



CABO DE CONTROLE SB FA PVC/PVC				
DADOS DIMENSIONAIS				
SEÇÃO NOMINAL - 6,00 mm <sup>2</sup>				
Código do Produto	Número de Condutores		Diâmetro Externo	Peso Nominal
			mm	(kg/km)
804477	2		14,35	349,92
804478	3		15,03	438,10
804479	4		17,04	588,02
804480	5		17,41	669,28
804481	6		18,73	756,26
804482	7		18,73	834,38
804483	8		20,08	927,82
804484	9		23,17	1066,00
804485	10		24,18	1160,24
804486	11		24,18	1234,28
804487	12		24,39	1324,19
804488	13		25,53	1417,87
804489	14		25,53	1490,95
804490	15		26,80	1589,52
804491	16		26,80	1661,74
804492	17		28,11	1755,90
804493	18		28,11	1826,82
804494	19		28,11	1898,15
804495	20		29,68	2011,26
804496	21		30,99	2100,34
804497	22		30,99	2175,03
804498	23		30,99	2254,12
804499	24		30,99	2323,97
804500	25		30,99	2402,61

CABO DE CONTROLE SB FA PVC/PVC				
DADOS DIMENSIONAIS				
SEÇÃO NOMINAL - 10,00 mm <sup>2</sup>				
Código do Produto	Número de Condutores		Diâmetro Externo	Peso Nominal
			mm	(kg/km)
804526	2		16,58	485,05
804527	3		17,42	623,17
804528	4		19,90	839,68
804529	5		20,36	967,80
804530	6		21,98	1104,38
804531	7		21,98	1230,93
804532	8		23,65	1375,69
804533	9		27,36	1573,79
804534	10		28,61	1718,36
804535	11		28,61	1839,70
804536	12		28,82	1979,96
804537	13		30,22	2123,78
804538	14		30,22	2243,88
804539	15		31,78	2392,72
804540	16		31,78	2511,73
804541	17		33,40	2656,17
804542	18		33,40	2773,53
804543	19		33,40	2891,42
804544	20		35,28	3058,52
804545	21		36,90	3197,67
804546	22		36,90	3318,63
804547	23		36,90	3443,99
804548	24		36,90	3559,98
804549	25		36,90	3684,78