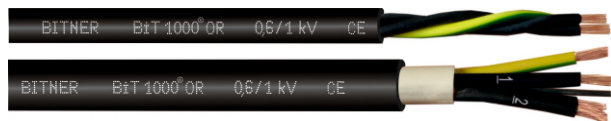


# BITNER<sup>®</sup> BIT 1000<sup>®</sup>OR

RoHS 2015/863/EU  
 CE  
 LVD 2014/35/EU  
 CPR  
 CPR 305/2011  
 24 months warranty

Power control cables 0,6/1 kV

Flexible, highly flame retardant, oil resistant control and power supply cables, rated 0,6/1 kV



## Technical data:

### Thermal parameters:

#### Operating temperature:

fixed installation: -40 °C to 80 °C  
 flexible connections: -5 °C to 80 °C  
 occasional flexing: -15 °C\* to 80 °C

### Electrical parameters:

Operating voltage:  $U_n/U = 0,6/1$  kV  
 Test voltage (50 Hz): 4000 V  
 Insulation resistance: 20 MΩxkm

### Mechanical parameters:

#### Min. bending radius:

flexible connections: 10 x Ø  
 fixed installation: 5 x Ø

## Design:

### Conductors:

bare copper conductors, multi-stranded class 5 acc. to EN 60228

### Insulation:

PVC compound

### Core identification:

black, numbered conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

### Core arrangement:

cores twisted together

### Inner sheath:

PVC compound for sections over 2,5 mm<sup>2</sup> (single core or paired cables without inner sheath)

### Outer sheath:

PVC compound, oil resistant (EN 60811-404), self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-24, cat. C), UV resistant, LOI>29; colour: black

## Application:

BIT 1000<sup>®</sup>OR cables are designed for connections in control and signalling circuits, as power supply cables for mobile and portable devices in places exposed to vibrations. Insulation compounds and construction of BIT 1000<sup>®</sup>OR cable enable easy and fast connections and ensure their high durability. They are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms, especially in applications in places with increased fire safety requirements (limited flame propagation) and in places exposed to oil or industrial coolants. Cables suitable for outdoor installation - outer sheath is UV resistant. **Cables designed also for direct burial in ground.** Cables classified according to EN 50575 (CPR).

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S65975	2x0,5	8,0	83
S65976	3G0,5	8,4	95
S66700	3x0,5	8,4	95
S65977	4G0,5	9,0	110
S66701	4x0,5	9,0	110
S65978	5G0,5	9,6	129
S66702	5x0,5	9,6	129
S65979	6G0,5	10,4	149
S65980	7G0,5	10,4	153
S66703	7x0,5	10,4	153
S65981	8G0,5	11,3	176
S66704	8x0,5	11,3	176
S65982	10G0,5	13,1	225
S65983	12G0,5	13,1	232
S66705	12x0,5	13,1	232
S65984	14G0,5	13,6	255
S65985	16G0,5	14,3	285
S65986	18G0,5	15,1	315
S65988	21G0,5	15,8	350
S65989	25G0,5	17,8	420
S65990	30G0,5	18,4	465
S65991	32G0,5	19,0	495
S65992	34G0,5	19,8	540
S66706	37G0,5	19,8	550
S66707	42G0,5	22,1	640
S66708	52G0,5	23,2	745
S66709	61G0,5	24,7	855

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S65993	2x0,75	8,4	94
S65994	3G0,75	8,8	109
S66710	3x0,75	8,8	109
S65995	4G0,75	9,5	129
S66711	4x0,75	9,5	129
S65996	5G0,75	10,2	150
S66712	5x0,75	10,2	150
S65997	6G0,75	11,0	173
S66713	6x0,75	11,0	173
S65998	7G0,75	11,0	179
S66714	7x0,75	11,0	179
S65999	8G0,75	12,0	207
S66715	8x0,75	12,0	207
S66000	10G0,75	13,9	260
S66001	12G0,75	13,9	275
S66716	12x0,75	13,9	275
S66002	14G0,75	14,5	305
S66003	16G0,75	15,3	340
S66004	18G0,75	16,1	380
S66006	21G0,75	16,8	420
S66007	25G0,75	19,0	505
S66008	30G0,75	19,6	565
S66009	32G0,75	20,4	605
S66010	34G0,75	21,2	650
S66717	37G0,75	21,2	670
S66718	42G0,75	23,9	790
S66719	52G0,75	24,9	915
S66720	61G0,75	26,7	1060

# BIT 1000<sup>®</sup> OR

Flexible, highly flame retardant, oil resistant control and power supply cables, rated 0,6/1 kV

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66011	2x1,0	8,7	104
S66012	3G1,0	9,2	122
S66721	3x1,0	9,2	122
S66013	4G1,0	9,8	144
S66722	4x1,0	9,8	144
S66014	5G1,0	10,6	168
S66723	5x1,0	10,6	168
S66015	6G1,0	11,4	195
S66016	7G1,0	11,4	203
S66724	7x1,0	11,4	203
S66017	8G1,0	12,5	182
S66018	10G1,0	14,5	300
S66725	10x1,0	14,5	300
S66019	12G1,0	14,5	310
S66726	12x1,0	14,5	310
S66020	14G1,0	15,2	350
S66021	16G1,0	16,0	390
S66022	18G1,0	16,8	435
S66024	21G1,0	17,6	485
S66025	25G1,0	19,9	585
S66026	30G1,0	20,6	650
S66027	32G1,0	21,4	705
S66028	34G1,0	22,2	765
S66727	37G1,0	22,4	790
S66728	42G1,0	25,1	915
S66729	52G1,0	26,4	1075
S66730	61G1,0	28,0	1235
S66731	2x1,5	9,5	127
S66732	3G1,5	10,0	150
S66733	3x1,5	10,0	150
S66734	4G1,5	10,8	181
S66735	4x1,5	10,8	181
S66736	5G1,5	11,7	213
S66737	5x1,5	11,7	213
S66738	6G1,5	12,6	248
S66739	7G1,5	12,6	255
S66740	7x1,5	12,6	255
S66741	8G1,5	13,8	300
S66742	10G1,5	16,2	380
S66743	12G1,5	16,2	405
S66744	12x1,5	16,2	405
S66745	14G1,5	16,9	455
S66746	16G1,5	17,9	510
S66747	18G1,5	18,8	570
S66748	21G1,5	19,7	640
S66749	25G1,5	22,6	780
S66750	30G1,5	23,4	875
S66751	32G1,5	24,3	940
S66752	34G1,5	25,2	1010
S66753	37G1,5	25,2	1045
S66754	42G1,5	28,7	1240
S66755	52G1,5	29,9	1445
S66756	61G1,5	32,0	1675
S66029	2x2,5	10,6	166
S66030	3G2,5	11,1	198
S66031	3x2,5	11,1	198
S66032	4G2,5	12,1	241
S66033	4x2,5	12,1	241
S66034	5G2,5	13,2	285
S66035	5x2,5	13,2	335

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66036	7G2,5	14,3	350
S66757	7x2,5	14,3	350
S66758	8G2,5	15,7	410
S66759	10G2,5	18,4	525
S66760	12G2,5	18,4	560
S66761	14G2,5	19,4	630
S66038	16G2,5	20,5	710
S66039	18G2,5	21,6	795
S66762	21G2,5	22,8	905
S66040	25G2,5	26,1	1105
S66763	30G2,5	27,1	1245
S66764	32G2,5	28,2	1340
S66765	34G2,5	29,5	1455
S66766	37G2,5	29,5	1505
S66767	42G2,5	33,3	1760
S66768	52G2,5	35,0	2080
S66769	61G2,5	37,2	2400
S66041	2x4	12,8	265
S66042	3G4	13,4	315
S66770	3x4	13,4	315
S66043	4G4	14,6	385
S66044	5G4	15,7	450
S66045	7G4	17,1	560
S66771	10G4	22,0	830
S66772	14G4	23,7	1035
S66773	2x6	14,0	335
S66047	3G6	14,7	400
S66048	4G6	16,3	500
S66049	5G6	17,5	590
S66050	7G6	18,9	730
S66774	10G6	25,2	1130
S66051	3G10	18,1	630
S66052	4G10	20,2	790
S66053	5G10	21,6	930
S66054	7G10	23,6	1170
S66055	3G16	20,5	865
S66056	4G16	22,8	1080
S66057	5G16	24,5	1285
S66058	7G16	26,8	1635
S66059	3G25	25,1	1330
S66060	4G25	27,8	1650
S66061	5G25	30,2	1985
S66062	3G35	27,3	1655
S66063	4G35	30,4	2080
S66064	5G35	33,1	2505
S66065	3G50	32,2	2345
S66066	4G50	36,0	2955
S66067	5G50	39,1	3560
S66068	3G70	36,7	3120
S66069	4G70	41,2	3960
S66070	5G70	44,8	4780
S66071	3G95	41,6	4105
S66072	4G95	46,5	5195
S66073	5G95	50,6	6300
S66074	3G120	44,6	4805
S66075	4G120	49,9	6140
S66076	4G150	56,5	7660
S66077	4G185	63,1	9225
S66078	4G240	70,2	11980

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## paired cables

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66830	2x2x0,5	10,8	133
S66831	3x2x0,5	12,0	146
S66832	4x2x0,5	12,9	175
S66833	5x2x0,5	13,9	216
S66834	6x2x0,5	14,3	228
S66835	7x2x0,5	16,0	260
S66836	8x2x0,5	16,7	285
S66837	10x2x0,5	17,9	340
S66838	12x2x0,5	19,0	390
S66839	14x2x0,5	20,2	440
S66840	16x2x0,5	21,6	505
S66841	18x2x0,5	22,8	555
S66842	20x2x0,5	23,5	600
S66843	24x2x0,5	24,2	690
S66844	2x2x0,75	11,5	150
S66845	3x2x0,75	12,7	169
S66846	4x2x0,75	13,8	204
S66847	5x2x0,75	14,8	255
S66848	6x2x0,75	15,3	270
S66849	7x2x0,75	17,1	310
S66850	8x2x0,75	17,8	340
S66851	10x2x0,75	19,1	405
S66852	12x2x0,75	20,4	470
S66853	14x2x0,75	21,7	530
S66854	16x2x0,75	23,4	625
S66855	18x2x0,75	24,4	670
S66856	20x2x0,75	25,4	745
S66857	24x2x0,75	26,1	855
S66858	2x2x1,0	11,9	168
S66859	3x2x1,0	13,3	190
S66860	4x2x1,0	14,4	231
S66861	5x2x1,0	15,5	285
S66862	6x2x1,0	16,0	305
S66863	7x2x1,0	17,9	355

Cat. no.	n x 2 x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66864	8x2x1,0	18,7	390
S66865	10x2x1,0	20,0	465
S66866	12x2x1,0	21,4	540
S66867	14x2x1,0	22,9	625
S66868	16x2x1,0	24,6	720
S66869	18x2x1,0	25,8	790
S66870	20x2x1,0	26,7	860
S66871	24x2x1,0	27,5	995
S66872	2x2x1,5	13,2	208
S66873	3x2x1,5	14,8	238
S66874	4x2x1,5	16,0	290
S66875	5x2x1,5	17,3	365
S66876	6x2x1,5	17,9	395
S66877	7x2x1,5	20,0	455
S66878	8x2x1,5	21,0	505
S66879	10x2x1,5	22,7	615
S66880	12x2x1,5	24,3	720
S66881	14x2x1,5	26,0	830
S66882	16x2x1,5	27,9	960
S66883	18x2x1,5	29,3	1050
S66884	20x2x1,5	30,3	1145
S66885	24x2x1,5	31,4	1345
S66886	2x2x2,5	15,0	270
S66887	3x2x2,5	16,8	315
S66888	4x2x2,5	18,3	395
S66889	5x2x2,5	19,7	500
S66890	6x2x2,5	20,5	540
S66891	7x2x2,5	23,2	635
S66892	8x2x2,5	24,3	710
S66893	10x2x2,5	26,3	870
S66894	12x2x2,5	28,4	1030
S66895	14x2x2,5	30,2	1175
S66896	16x2x2,5	32,6	1375

Power control cables 0,6/1 kV

## single core cables

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66780	1x1,5	5,8	51
S66781	1x2,5	6,4	65
S66782	1x4	6,7	84
S66783	1x6	7,4	107
S66784	1x10	8,7	154
S66785	1x16	9,7	215
S66786	1x25	11,4	310
S66787	1x35	12,5	405
S66788	1x50	14,7	570
S66789	1x70	16,6	775
S66790	1x95	18,7	1015
S66791	1x120	20,5	1245
S66792	1x150	22,5	1535
S66793	1x185	25,1	1875
S66794	1x240	28,1	2435
S66795	1x300	31,8	3180
S66796	1x400	35,5	4110
S66797	1x500	40,8	5165

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66798	1G1,5	5,8	51
S66799	1G2,5	6,4	65
S66800	1G4	6,7	84
S66801	1G6	7,4	107
S66802	1G10	8,7	154
S66803	1G16	9,7	215
S66804	1G25	11,4	310
S66805	1G35	12,5	405
S66806	1G50	14,7	570
S66807	1G70	16,6	775
S66808	1G95	18,7	1015
S66809	1G120	20,5	1245
S66810	1G150	22,5	1535
S66811	1G185	25,1	1875
S66812	1G240	28,1	2435
S66813	1G300	31,8	3180
S66814	1G400	35,5	4110
S66815	1G500	40,8	5165

\*Outer diameter tolerance: +/-5%

Cable Factory BITNER reserves the right to modify the specifications without prior notice

G - cables with green/yellow earthing conductor

x- cables without green/yellow earthing conductor

Note: on customer's request other cross sections or number of cores can be produced