

BiT 1000[®] CY OR



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



Power control cables 0,6/1 kV

Technical data:

Thermal parameters:
Operating temperature:
 fixed installation: -40 °C to 80 °C
 flexible connections: -5 °C to 80 °C

Electrical parameters:
Operating voltage: $U_0/U = 0,6/1$ kV
Test voltage (50 Hz): 4000 V
Insulation resistance: 20 MΩxkm

Mechanical parameters:

Min. bending radius:
 flexible connections: 12 x Ø
 fixed installation: 6 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 (single core cables without inner sheath)
Screen: tinned copper wire braid with coverage ≥85%
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[®] CY 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[®] CY 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.** Properly connected screen ensures full electromagnetic compatibility (EMC). Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66900	2x0,5	9,6	138
S66901	3G0,5	10,0	152
S66902	4G0,5	10,6	172
S66903	5G0,5	11,2	195
S66904	6G0,5	12,0	223
S66905	7G0,5	12,0	227
S66906	8G0,5	13,1	260
S66907	10G0,5	14,9	320
S66908	12G0,5	14,9	325
S66909	14G0,5	15,4	355
S66910	16G0,5	16,3	400
S66911	18G0,5	17,1	435
S66912	19G0,5	17,1	440
S66913	20G0,5	17,8	470
S66914	21G0,5	17,8	475
S66915	25G0,5	20,0	570
S66916	30G0,5	20,6	620
S66917	37G0,5	22,2	720
S66918	2x0,75	10,0	144
S66919	3G0,75	10,4	161
S66920	4G0,75	10,9	184
S66921	5G0,75	11,8	224
S66922	6G0,75	12,6	250
S66923	7G0,75	12,6	255
S66924	8G0,75	13,8	295

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66925	10G0,75	15,7	365
S66926	12G0,75	15,7	375
S66927	14G0,75	16,5	420
S66928	16G0,75	17,3	465
S66929	18G0,75	18,1	505
S66930	19G0,75	18,1	510
S66931	20G0,75	19,0	560
S66932	21G0,75	19,0	565
S66933	25G0,75	21,2	665
S66934	2x1,0	10,1	157
S66935	3G1,0	10,8	186
S66936	4G1,0	11,4	201
S66937	5G1,0	12,2	244
S66938	6G1,0	13,2	280
S66939	7G1,0	13,2	285
S66940	8G1,0	14,3	325
S66941	10G1,0	16,5	415
S66942	12G1,0	16,5	430
S66943	14G1,0	17,2	470
S66944	16G1,0	18,0	520
S66945	18G1,0	18,8	570
S66946	19G1,0	18,8	575
S66947	20G1,0	19,8	625
S66948	21G1,0	19,8	635
S66949	25G1,0	22,3	770

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66081	2x1,5	11,1	195
S66082	3G1,5	11,4	209
S66083	4G1,5	12,4	250
S66084	5G1,5	13,5	300
S66085	6G1,5	14,4	340
S66086	7G1,5	14,4	350
S66087	8G1,5	15,6	405
S66088	10G1,5	18,2	510
S66089	12G1,5	18,2	535
S66090	2x2,5	12,2	231
S66091	3G2,5	12,9	285
S66092	4G2,5	13,9	330
S66093	5G2,5	15,0	385
S66094	7G2,5	16,3	450
S66095	10G2,5	20,8	685
S66096	14G2,5	21,8	795
S66097	16G2,5	23,1	900
S66098	18G2,5	24,7	1025
S66099	25G2,5	29,0	1385
S66100	2x4	13,4	305
S66101	3G4	14,0	355
S66102	4G4	15,2	430
S66103	5G4	16,5	505
S66104	7G4	17,7	610
S66105	10G4	22,8	915
S66106	3G6	15,3	445
S66107	4G6	16,9	550
S66108	5G6	18,1	640
S66109	7G6	19,7	795

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66110	3G10	18,7	690
S66111	4G10	20,8	855
S66112	5G10	22,2	995
S66113	7G10	24,2	1245
S66114	3G16	21,1	925
S66115	4G16	23,4	1155
S66116	5G16	25,3	1375
S66117	7G16	27,4	1720
S66118	3G25	25,7	1410
S66119	4G25	28,6	1755
S66120	5G25	30,8	2080
S66121	3G35	27,9	1740
S66122	4G35	31,4	2220
S66123	5G35	33,9	2645
S66124	3G50	33,0	2440
S66125	4G50	36,8	3055
S66126	5G50	39,9	3670
S66127	3G70	37,7	3285
S66128	4G70	42,0	4125
S66129	5G70	45,6	4960
S66130	3G95	42,4	4275
S66131	4G95	47,5	5405
S66132	5G95	52,1	6580
S66133	3G120	45,4	4985
S66134	4G120	50,9	6365
S66135	4G150	57,5	7945
S66136	4G185	64,1	9540
S66137	4G240	71,1	12330

single core cables

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66950	1x1,5	8,9	90
S66951	1x2,5	9,5	110
S66952	1x4	9,9	176
S66953	1x6	10,5	210
S66954	1x10	11,8	291
S66955	1x16	13	387
S66956	1x25	14,9	453
S66957	1x35	16,2	550
S66958	1x50	18,4	748
S66959	1x70	20,5	976
S66960	1x95	22,8	1268
S66961	1x120	24,6	1536
S66962	1x150	26,8	1875
S66963	1x185	29,4	2242
S66964	1x240	32,6	2883
S66965	1x300	36,7	3618

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S66966	1G1,5	8,9	90
S66967	1G2,5	9,5	110
S66968	1G4	9,9	176
S66969	1G6	10,5	210
S66970	1G10	11,8	291
S66971	1G16	13	387
S66972	1G25	14,9	453
S66973	1G35	16,2	550
S66974	1G50	18,4	748
S66975	1G70	20,5	976
S66976	1G95	22,8	1268
S66977	1G120	24,6	1536
S66978	1G150	26,8	1875
S66979	1G185	29,4	2242
S66980	1G240	32,6	2883
S66981	1G300	36,7	3618

*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