

BiT 1000®CY FR

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



industrial application



internal application



external application



underground installation



EN 60332-1



EN 60332-3



oxygen index



high flexibility



UV resistance



EMC



RoHS 2011/65/EU



LVD 2014/35/EU



CPR 305/2011



2 years warranty

Technical data:

Operating temperature:

Fixed installation: -40°C to 80°C

Flexible connections: -5°C to 80°C

Operating voltage: $U_0/U=0,6/1kV$

Test voltage (50Hz): 4000V

Insulation resistance: 20MΩxkm

Min. bending radius:

Flexible connections: 12xØ

Fixed installation: 6xØ

Construction:

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

Insulation: special PVC

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

Core arrangement: cores twisted together

Inner sheath: special PVC (single core cables without inner sheath)

Screen: tinned copper wire braid with coverage ≥85%

Outer sheath: special PVC, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1, EN 60332-3-24, cat. C), UV resistant, LOI>29

Outer sheath colour: black

Application:

BiT 1000®CY FR 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 FR 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). 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]	Cu [kg/km]
S66560	2x0,5	9,6	136	37,0
S66561	3G0,5	10,0	148	43,0
S66562	4G0,5	10,6	168	49,0
S66563	5G0,5	11,3	190	58,0
S66564	6G0,5	12,0	216	66,0
S66565	7G0,5	12,0	220	72,0
S66566	8G0,5	13,1	255	81,0
S66567	10G0,5	14,9	315	97,0
S66568	12G0,5	14,9	320	110,0
S66569	14G0,5	15,5	345	123,0
S66570	16G0,5	16,4	390	138,0
S66571	18G0,5	17,1	425	152,0
S66572	19G0,5	17,1	425	158,0
S66573	20G0,5	17,8	460	166,0
S66574	21G0,5	17,8	460	172,0
S66575	25G0,5	20,0	555	205,0
S66576	30G0,5	20,6	600	232,0
S66577	37G0,5	22,2	700	278,0
S66578	2x0,75	10,0	150	42,0
S66579	3G0,75	10,4	166	52,0
S66580	4G0,75	11,1	190	63,0
S66581	5G0,75	11,8	220	74,0
S66582	6G0,75	12,6	245	85,0
S66583	7G0,75	12,6	250	94,0
S66584	8G0,75	13,8	290	107,0
S66585	10G0,75	15,7	355	128,0
S66586	12G0,75	15,7	370	147,0
S66587	14G0,75	16,6	410	165,0
S66588	16G0,75	17,3	450	185,0

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S66589	18G0,75	18,1	490	205,0
S66590	19G0,75	18,1	495	213,0
S66591	20G0,75	19,1	545	224,0
S66592	21G0,75	19,1	550	232,0
S66593	25G0,75	21,2	645	275,0
S66594	2x1,0	10,3	162	49,0
S66595	3G1,0	10,8	182	62,0
S66596	4G1,0	11,5	210	75,0
S66597	5G1,0	12,2	240	89,0
S66598	6G1,0	13,2	275	103,0
S66599	7G1,0	13,2	280	115,0
S66600	8G1,0	14,3	320	129,0
S66601	10G1,0	16,6	405	158,0
S66602	12G1,0	16,6	420	181,0
S66603	14G1,0	17,2	460	206,0
S66604	16G1,0	18,0	505	231,0
S66605	18G1,0	18,8	555	256,0
S66606	19G1,0	18,8	560	268,0
S66607	20G1,0	19,9	610	282,0
S66608	21G1,0	19,9	615	293,0
S66609	25G1,0	22,4	750	345,0
S66610	2x1,5	11,1	192	62,0
S66611	3G1,5	11,6	215	80,0
S66612	4G1,5	12,7	260	99,0
S66613	5G1,5	13,5	295	120,0
S66614	6G1,5	14,4	335	138,0
S66615	7G1,5	14,4	345	154,0
S66616	8G1,5	15,7	395	175,0
S66617	10G1,5	18,2	500	214,0

BiT 1000[®] CY FR

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

Power control cables 0,6/1kV

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S66618	12G1,5	18,2	520	248,0
S66400	2x2,5	12,1	234	108,0
S66401	3G2,5	12,6	270	145,0
S66402	4G2,5	13,6	317	166,0
S66403	5G2,5	14,8	375	221,0
S66404	7G2,5	15,9	454	280,0
S66405	10G2,5	19,8	622	354,0
S66406	14G2,5	21,6	813	492,0
S66407	16G2,5	22,9	914	542,0
S66408	18G2,5	23,8	1008	582,0
S66409	25G2,5	28,3	1267	738,0
S66410	2x4	13,1	289	125,0
S66411	3G4	13,8	342	172,0
S66412	4G4	14,9	408	230,0
S66413	5G4	16,2	488	285,0
S66414	7G4	17,7	618	315,0
S66415	10G4	22,1	865	538,0
S66416	3G6	14,9	431	238,0
S66417	4G6	16,4	541	308,0
S66418	5G6	17,9	644	432,0
S66419	7G6	19,3	798	525,0
S66420	3G10	18,6	687	362,0
S66421	4G10	20,2	832	535,0
S66422	5G10	22,0	1004	596,0
S66423	7G10	23,9	1256	810,0

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S66424	3G16	20,6	933	645,0
S66425	4G16	22,5	1142	792,0
S66426	5G16	24,6	1389	928,0
S66427	7G16	27,0	1790	1315,0
S66428	3G25	25,7	1423	905,0
S66429	4G25	28,3	1790	1152,0
S66430	5G25	31,1	2159	1408,0
S66431	3G35	28,4	1855	1230,0
S66432	4G35	31,2	2316	1640,0
S66433	5G35	34,2	2795	2005,0
S66434	3G50	32,8	2532	1847,0
S66435	4G50	36,1	3164	2345,0
S66436	5G50	39,7	3861	2842,0
S66437	3G70	37,4	3393	2493,0
S66438	4G70	41,1	4245	3208,0
S66439	5G70	45,4	5164	4012,0
S66440	3G95	42,2	4439	3058,0
S66441	4G95	46,6	5578	4042,0
S66442	5G95	51,4	6807	5195,0
S66443	3G120	44,9	5330	4057,0
S66444	4G120	49,6	6730	5162,0
S66445	4G150	57,0	8509	7370,0
S66446	4G185	63,7	10495	7720,0
S66447	4G240	69,4	13153	9896,0

single core cables

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S66630	1x1,5	6,4	66	27,0
S66631	1x2,5	6,8	83	40,0
S66632	1x4	7,3	102	54,0
S66633	1x6	8,4	131	74,0
S66634	1x10	9,1	187	118,0
S66635	1x16	10,0	257	178,0
S66636	1x25	12,1	382	274,0
S66637	1x35	13,2	494	371,0
S66638	1x50	15,3	681	521,0
S66639	1x70	17,4	928	737,0
S66640	1x95	19,7	1222	985,0
S66641	1x120	20,9	1490	1231,0
S66642	1x150	23,8	1857	1531,0
S66643	1x185	26,8	2304	1905,0
S66644	1x240	29,2	2615	2400,0
S66645	1x300	32,7	3310	2980,0

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S66646	1G1,5	6,4	66	27,0
S66647	1G2,5	6,8	83	40,0
S66648	1G4	7,3	102	54,0
S66649	1G6	8,4	131	74,0
S66650	1G10	9,1	187	118,0
S66651	1G16	10,0	257	178,0
S66652	1G25	12,1	382	274,0
S66653	1G35	13,2	494	371,0
S66654	1G50	15,3	681	521,0
S66655	1G70	17,4	928	737,0
S66656	1G95	19,7	1222	985,0
S66657	1G120	20,9	1490	1231,0
S66658	1G150	23,8	1857	1531,0
S66659	1G185	26,8	2304	1905,0
S66660	1G240	29,2	2615	2400,0
S66661	1G300	32,7	3310	2980,0

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