



## Technical data:

**Operating temperature:**  
 Fixed installation: -40°C to 80°C  
 Flexible connections: -5°C to 80°C  
**Operating voltage:** U<sub>0</sub>/U=300/500V  
**Test voltage (50Hz):** 3000V  
**Insulation resistance:** 20MΩxkm  
**Min. bending radius:**  
 Flexible connections: 10xØ  
 Fixed installation: 5xØ

## Construction:

**Conductors:** bare, annealed copper conductors, multi-stranded class 5 acc. to EN 60228  
**Insulation:** special PVC  
**Core identification:** black, number coded conductors, cables with protective earth conductor marked G (e.g. 7G1,5)  
**Core arrangement:** cores twisted together or pairs twisted together  
**Inner sheath:** special PVC  
**Screen:** tinned copper wire braid, coverage ≥85%  
**Outer sheath:** special PVC, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1)  
**Outer sheath colour:** transparent

## Application:

Flexible power and control cables designed for operation in control and protective devices as well as in control circuits. Also for power supply to low power portable and mobile devices. Common screen of tinned copper wire braid ensures very good protection against external electromagnetic field especially in industrial environment. Reciprocal connection of screen to earth ensures full electromagnetic compatibility (EMC). Cables are suitable for fixed installations and for flexible connections in industrial devices, technological lines and machines operating in dry and damp rooms. High flexibility of BiT 500<sup>®</sup> CY cable simplifies installation and compounds used enable easy and fast connections and ensure their high durability.

Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm <sup>2</sup>	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S54300	2x0,5	7,1	80	37,0
S54301	3G0,5	7,4	87	43,0
S54302	4G0,5	7,8	98	49,0
S54303	5G0,5	8,3	113	58,0
S54304	6G0,5	9,3	135	66,0
S54305	7G0,5	9,3	139	72,0
S54306	8G0,5	10,0	157	81,0
S54307	10G0,5	11,0	183	97,0
S54308	12G0,5	11,5	204	110,0
S54309	14G0,5	11,9	222	123,0
S54310	16G0,5	12,4	245	138,0
S54311	18G0,5	13,0	266	152,0
S54312	19G0,5	13,0	270	158,0
S54314	21G0,5	13,7	299	172,0
S54260	25G0,5	14,9	336	198,0
S54316	27G0,5	15,2	359	213,0
S54317	30G0,5	16,0	399	232,0
S54318	37G0,5	17,1	461	278,0
S54319	2x0,75	7,5	90	42,0
S54320	3G0,75	7,8	100	52,0
S54321	4G0,75	8,3	115	63,0
S54322	5G0,75	9,3	141	74,0
S54323	6G0,75	9,9	160	85,0
S54324	7G0,75	9,9	164	94,0
S54325	8G0,75	10,6	187	107,0
S54326	10G0,75	12,0	224	128,0
S54327	12G0,75	12,3	246	147,0
S54328	14G0,75	12,8	269	165,0
S54329	16G0,75	13,6	304	185,0

Cat. no.	n x mm <sup>2</sup>	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S54330	18G0,75	14,2	332	205,0
S54331	19G0,75	14,2	336	213,0
S54333	21G0,75	14,7	364	232,0
S54275	25G0,75	16,5	425	270,0
S54335	2x1,0	7,8	99	49,0
S54336	3G1,0	8,1	113	62,0
S54337	4G1,0	9,1	137	75,0
S54338	5G1,0	9,7	159	89,0
S54339	6G1,0	10,3	182	103,0
S54340	7G1,0	10,3	186	115,0
S54341	8G1,0	11,3	216	129,0
S54342	10G1,0	12,6	256	158,0
S54343	12G1,0	12,9	281	181,0
S54344	14G1,0	13,6	316	206,0
S54345	16G1,0	14,3	350	231,0
S54346	18G1,0	14,9	385	256,0
S54347	19G1,0	14,9	390	268,0
S54349	21G1,0	15,9	437	293,0
S54290	25G1,0	17,4	494	342,0
S54351	2x1,5	8,5	121	62,0
S54352	3G1,5	9,3	147	80,0
S54353	4G1,5	9,9	171	99,0
S54354	5G1,5	10,6	201	120,0
S54355	6G1,5	11,6	235	138,0
S54356	7G1,5	11,6	243	154,0
S54357	8G1,5	12,5	277	175,0
S54358	10G1,5	14,2	336	214,0
S54359	12G1,5	14,6	371	248,0

**BiT 500<sup>®</sup> CY**

Flexible, screened control cables with number coded conductors, rated 300/500V

Cat. no.	n x mm <sup>2</sup>	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S54360	2x2,5	10,0	170	90,0
S54361	3G2,5	10,5	199	122,0
S54362	4G2,5	11,5	238	151,0
S54363	5G2,5	12,3	280	184,0

Cat. no.	n x mm <sup>2</sup>	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S54364	6G2,5	13,2	325	215,0
S54365	7G2,5	13,2	338	242,0
S54367	10G2,5	16,8	487	339,0
S54368	12G2,5	17,3	542	397,0

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

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