

BITNER® CY



Control cables 300/500 V

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



Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 80 °C
flexible connections: -5 °C to 80 °C

Electrical parameters:

Operating voltage: $U_i/U = 300/500$ V
Test voltage (50 Hz): 3000 V
Insulation resistance: 20 M Ω x km

Mechanical parameters:

Min. bending radius:

flexible connections: 10 x \varnothing
fixed installation: 5 x \varnothing

Design:

Conductors:

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

Insulation:

PVC compound

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:

PVC compound

Screen:

tinned copper wire braid, coverage $\geq 85\%$

Outer sheath:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2); 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®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 ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54300	2x0,5	7,1	80
S54301	3G0,5	7,4	87
S54302	4G0,5	7,8	98
S54303	5G0,5	8,3	113
S54304	6G0,5	9,3	135
S54305	7G0,5	9,3	139
S54306	8G0,5	10,0	157
S54307	10G0,5	11,0	183
S54308	12G0,5	11,5	204
S54309	14G0,5	11,9	222
S54310	16G0,5	12,4	245
S54311	18G0,5	13,0	266
S54312	19G0,5	13,0	270
S54314	21G0,5	13,7	299
S54260	25G0,5	14,9	336
S54316	27G0,5	15,2	359
S54317	30G0,5	16,0	399
S54318	37G0,5	17,1	461
S54319	2x0,75	7,5	90
S54320	3G0,75	7,8	100
S54321	4G0,75	8,3	115
S54322	5G0,75	9,3	141
S54323	6G0,75	9,9	160
S54324	7G0,75	9,9	164
S54325	8G0,75	10,6	187
S54326	10G0,75	12,0	224
S54327	12G0,75	12,3	246
S54328	14G0,75	12,8	269
S54329	16G0,75	13,6	304

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54330	18G0,75	14,2	332
S54331	19G0,75	14,2	336
S54333	21G0,75	14,7	364
S54275	25G0,75	16,5	425
S54335	2x1,0	7,8	99
S54289	3x1,0	8,1	113
S54288	4x1,0	9,1	137
S54336	3G1,0	8,1	113
S54337	4G1,0	9,1	137
S54338	5G1,0	9,7	159
S54339	6G1,0	10,3	182
S54340	7G1,0	10,3	186
S54341	8G1,0	11,3	216
S54342	10G1,0	12,6	256
S54343	12G1,0	12,9	281
S54344	14G1,0	13,6	316
S54345	16G1,0	14,3	350
S54346	18G1,0	14,9	385
S54347	19G1,0	14,9	390
S54349	21G1,0	15,9	437
S54290	25G1,0	17,4	494
S54351	2x1,5	8,5	121
S54352	3G1,5	9,3	147
S54353	4G1,5	9,9	171
S54354	5G1,5	10,6	201
S54355	6G1,5	11,6	235
S54356	7G1,5	11,6	243
S54357	8G1,5	12,5	277
S54358	10G1,5	14,2	336
S54359	12G1,5	14,6	371

BIT 500[®] CY

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

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54360	2x2,5	10,0	170
S54361	3G2,5	10,5	199
S54362	4G2,5	11,5	238
S54363	5G2,5	12,3	280

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54364	6G2,5	13,2	325
S54365	7G2,5	13,2	338
S54367	10G2,5	16,8	487
S54368	12G2,5	17,3	542

*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