

# BITNER<sup>®</sup> CPUR

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

Control cables 300/500 V

Flexible, screened, PUR sheathed 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:**  $U_0/U = 300/500$  V  
**Test voltage (50 Hz):** 3000 V  
**Insulation resistance:** 20 MΩ x km

### 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, number coded conductors, cables with protective earth conductor marked G (e.g. 7G1,5)

**Core arrangement:** cores twisted together

**Inner sheath:** PVC compound

**Screen:** tinned copper wire braid, coverage ≥85%

**Outer sheath:** special PUR compound, oil resistant (EN 60811-404), resistant to hydrocarbons, industrial coolants and UV radiation; colour: grey

## Application:

Flexible power and control cables with high level of resistance to environmental conditions 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. They can be installed outdoors – UV resistance and increased mechanical protection due to special outer sheath compound. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54850	2x0,5	7,1	78
S54851	3G0,5	7,4	86
S54852	4G0,5	7,8	97
S54853	5G0,5	8,3	111
S54854	6G0,5	9,3	132
S54855	7G0,5	9,3	136
S54856	8G0,5	10,0	154
S54857	10G0,5	11,0	180
S54858	12G0,5	11,5	200
S54859	14G0,5	11,9	218
S54860	16G0,5	12,4	241
S54861	18G0,5	13,0	262
S54862	19G0,5	13,0	265
S54864	21G0,5	13,7	293
S54920	25G0,5	14,9	330
S54866	27G0,5	15,2	352
S54867	30G0,5	16,0	391
S54868	37G0,5	17,1	453
S54869	2x0,75	7,5	88
S54870	3G0,75	7,8	98
S54871	4G0,75	8,3	113
S54872	5G0,75	9,3	138
S54873	6G0,75	9,9	157

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54874	7G0,75	9,9	161
S54875	8G0,75	10,6	183
S54876	10G0,75	12,0	220
S54877	12G0,75	12,3	241
S54878	14G0,75	12,8	264
S54879	16G0,75	13,6	298
S54880	18G0,75	14,2	326
S54881	19G0,75	14,2	330
S54883	21G0,75	14,7	358
S54921	25G0,75	16,5	417
S54885	2x1,0	7,8	97
S54886	3G1,0	8,1	111
S54887	4G1,0	9,1	135
S54888	5G1,0	9,7	156
S54889	6G1,0	10,3	178
S54890	7G1,0	10,3	183
S54891	8G1,0	11,3	212
S54892	10G1,0	12,6	252
S54893	12G1,0	12,9	276
S54894	14G1,0	13,6	310
S54895	16G1,0	14,3	344
S54896	18G1,0	14,9	379
S54897	19G1,0	14,9	383

# BIT 500<sup>®</sup> CPUR

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Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54899	21G1,0	15,9	430
S54922	25G1,0	17,4	485
S54901	2x1,5	8,5	119
S54902	3G1,5	9,3	144
S54903	4G1,5	9,9	168
S54904	5G1,5	10,6	197
S54905	6G1,5	11,6	230
S54906	7G1,5	11,6	238
S54907	8G1,5	12,5	273
S54908	10G1,5	14,2	330

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]
S54909	12G1,5	14,6	365
S54910	2x2,5	10,0	167
S54911	3G2,5	10,5	196
S54912	4G2,5	11,5	234
S54913	5G2,5	12,3	276
S54914	6G2,5	13,2	320
S54915	7G2,5	13,2	333
S54916	8G2,5	14,6	389
S54917	10G2,5	16,8	479
S54918	12G2,5	17,3	534

\*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