

Flexible, screened control cables with coloured 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: $U_n/U = 300/500$ V

Test voltage (50 Hz): 3000 V

Insulation resistance: 20 MΩ x km

Max. approximate capacitance:

Core/core: 150 pF/m

Core/screen: 270 pF/m

Approximate inductance: 0,65 mH/km

Mechanical parameters:

Min. bending radius:

flexible connections: 10 x Ø
 fixed installation: 5 x Ø

Design:

Conductors:

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

Insulation:

PVC compound

Core identification:

colours as per DIN 47100

Core arrangement:

cores twisted together or pairs twisted together

Screen:

tinned copper wire braid, coverage ≥85%

Outer sheath:

PVC compound, oil resistant (see table of chemical resistance), self-extinguishing and flame retardant (acc. to EN 60332-1-2); colour: grey

Application:

The cables are intended for signalling control circuits, control circuits in industrial applications, in measurement technology and for analogue and digital signals transmission in electronic industrial and automatic control engineering systems. For fixed installation and mobile/portable devices. Suitable for use indoors, in both dry and damp rooms. A common screen of tinned copper wire braid ensures very good protection against external electromagnetic fields (approximately 50 dB). Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53801	2x0,5	5,4	45
S53802	3x0,5	5,7	49
S53803	4x0,5	6,1	59
S53804	5x0,5	6,8	74
S53805	6x0,5	7,4	86
S53806	7x0,5	7,4	91
S53807	8x0,5	8,1	105
S53808	10x0,5	9,8	140
S53809	12x0,5	9,8	149
S53810	14x0,5	10,2	167
S53811	16x0,5	10,7	187
S53812	18x0,5	11,5	213
S53773	19x0,5	11,5	217
S53814	21x0,5	12,0	238
S53774	25x0,5	13,9	303
S53816	27x0,5	13,9	310
S53817	30x0,5	14,3	335
S53775	34x0,5	15,4	385
S53819	37x0,5	15,4	395
S53820	40x0,5	16,3	440
S53776	42x0,5	17,5	470
S53777	50x0,5	18,4	545
S53825	56x0,5	18,9	590
S53827	61x0,5	19,5	630
S53829	2x0,75	5,8	52
S53830	3x0,75	6,1	59
S53831	4x0,75	6,8	75
S53832	5x0,75	7,4	91
S53833	6x0,75	8,0	107
S53834	7x0,75	8,0	112
S53835	8x0,75	9,1	138

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53836	10x0,75	10,6	174
S53837	12x0,75	10,6	185
S53838	14x0,75	11,3	215
S53839	16x0,75	11,9	241
S53840	18x0,75	12,5	268
S53778	19x0,75	12,5	274
S53842	21x0,75	13,2	310
S53844	25x0,75	15,1	380
S53845	27x0,75	15,1	390
S53846	30x0,75	16,0	440
S53847	34x0,75	17,2	505
S53849	37x0,75	17,2	520
S53850	40x0,75	17,7	555
S53779	42x0,75	19,3	605
S53780	50x0,75	20,1	690
S53781	56x0,75	20,7	750
S53782	61x0,75	21,5	815
S53851	2x1,0	6,1	58
S53852	3x1,0	6,4	68
S53853	4x1,0	7,2	87
S53854	5x1,0	7,8	106
S53855	6x1,0	8,4	125
S53856	7x1,0	8,4	132
S53857	8x1,0	9,6	162
S53858	10x1,0	11,4	212
S53859	12x1,0	11,4	225
S53860	14x1,0	11,9	254
S53861	16x1,0	12,8	300
S53862	18x1,0	13,6	335
S53918	19x1,0	13,6	345
S53864	21x1,0	14,2	375

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53866	25x1,0	16,4	465
S53867	27x1,0	16,4	480
S53868	30x1,0	17,0	520
S53915	34x1,0	18,4	605
S53870	37x1,0	18,4	625
S53916	40x1,0	19,0	675
S53919	42x1,0	20,5	720
S53917	50x1,0	21,5	840
S53920	56x1,0	22,2	910
S53921	61x1,0	22,8	975
S53871	2x1,5	7,1	79
S53872	3x1,5	7,5	94
S53873	4x1,5	8,2	118
S53874	5x1,5	9,3	151
S53875	6x1,5	10,0	176
S53876	7x1,5	10,0	187
S53877	8x1,5	11,0	218
S53878	10x1,5	13,3	296
S53879	12x1,5	13,3	315
S53880	14x1,5	14,1	365
S53881	16x1,5	14,9	410
S53882	18x1,5	16,0	470
S53783	19x1,5	16,0	480
S53884	21x1,5	16,8	530
S53784	25x1,5	19,1	640
S53887	27x1,5	19,1	660
S53888	30x1,5	19,7	720
S53785	34x1,5	21,4	835
S53890	37x1,5	21,4	870

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53786	40x1,5	22,2	935
S53787	42x1,5	23,9	1000
S53788	50x1,5	25,3	1175
S53789	56x1,5	26,1	1280
S53790	61x1,5	26,8	1375
S53891	2x2,5	8,2	106
S53892	3x2,5	9,1	139
S53893	4x2,5	9,9	174
S53894	5x2,5	10,7	211
S53895	6x2,5	11,9	258
S53896	7x2,5	11,9	274
S53898	10x2,5	16,2	440
S53899	12x2,5	16,2	475
S53900	14x2,5	16,9	535
S53901	16x2,5	17,8	605
S53902	18x2,5	19,0	685
S53904	21x2,5	19,9	775
S53905	25x2,5	22,7	935
S53791	30x2,5	23,5	1060
S53907	34x2,5	25,7	1245
S53792	37x2,5	25,7	1295
S53908	42x2,5	28,9	1500
S53912	50x2,5	29,9	1720
S53793	2x4,0	9,9	163
S53794	3x4,0	10,5	193
S53795	4x4,0	11,7	263
S53796	5x4,0	12,9	330
S53797	7x4,0	14,2	430
S53798	10x4,0	19,1	655
S53799	12x4,0	19,1	720

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paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53925	2x2x0,5	7,7	80
S53926	3x2x0,5	9,2	108
S53927	4x2x0,5	9,9	129
S53928	5x2x0,5	10,6	156
S53929	6x2x0,5	10,9	167
S53930	7x2x0,5	12,4	198
S53931	8x2x0,5	12,9	218
S53932	10x2x0,5	14,0	260
S53933	12x2x0,5	14,8	295
S53934	14x2x0,5	16,1	350
S53935	16x2x0,5	17,2	395
S53936	18x2x0,5	17,9	425
S53937	20x2x0,5	18,6	470
S53938	24x2x0,5	19,1	530
S53939	2x2x0,75	8,5	104
S53940	3x2x0,75	9,9	130
S53941	4x2x0,75	10,7	156
S53942	5x2x0,75	11,7	198
S53943	6x2x0,75	12,1	212
S53944	7x2x0,75	13,6	251
S53945	8x2x0,75	14,2	275
S53946	10x2x0,75	15,2	320
S53947	12x2x0,75	16,6	385
S53948	14x2x0,75	17,5	435
S53949	16x2x0,75	18,9	505
S53950	18x2x0,75	19,7	545
S53951	20x2x0,75	20,3	590
S53952	24x2x0,75	20,9	675
S53953	2x2x1,0	9,4	130
S53954	3x2x1,0	10,5	149
S53955	4x2x1,0	11,5	187
S53956	5x2x1,0	12,4	228
S53957	6x2x1,0	12,8	247

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S53958	7x2x1,0	14,4	290
S53959	8x2x1,0	15,1	320
S53960	10x2x1,0	16,5	395
S53961	12x2x1,0	17,6	455
S53962	14x2x1,0	18,8	525
S53963	16x2x1,0	20,1	595
S53964	18x2x1,0	20,9	645
S53965	20x2x1,0	21,8	710
S53966	24x2x1,0	22,4	815
S53967	2x2x1,5	10,7	166
S53968	3x2x1,5	12,2	202
S53969	4x2x1,5	13,2	246
S53970	5x2x1,5	14,4	310
S53971	6x2x1,5	14,9	335
S53972	7x2x1,5	17,0	405
S53973	8x2x1,5	17,8	445
S53974	10x2x1,5	19,2	540
S53975	12x2x1,5	20,5	620
S53976	14x2x1,5	21,9	715
S53977	16x2x1,5	23,4	820
S53978	18x2x1,5	24,8	910
S53979	20x2x1,5	25,6	990
S53980	24x2x1,5	26,3	1140
S53981	2x2x2,5	12,7	236
S53982	3x2x2,5	14,4	285
S53983	4x2x2,5	16,0	365
S53984	5x2x2,5	17,2	450
S53985	6x2x2,5	17,8	490
S53986	7x2x2,5	20,2	580
S53987	8x2x2,5	21,1	645
S53988	10x2x2,5	22,8	780
S53989	12x2x2,5	24,3	905
S53990	14x2x2,5	26,3	1060
S53991	16x2x2,5	28,1	1210

*Outer diameter tolerance: +/- 5%

Cable Factory BITNER reserves the right to modify the specifications without prior notice

Note: on customer's request other cross sections or number of cores can be produced