

Flexible control cables with coloured conductors, rated 300/300 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: $U_0/U = 300/300$ V

Test voltage (50 Hz): 1500 V

Insulation resistance: 20 M Ω x km

Approximate capacitance (at 800 Hz):

Core/core - 150 pF/m

Core/screen - 2700 pF/m

Approximate inductance: 0,65 mH/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:

colours as per DIN 47100

Core arrangement:

cores twisted together or pairs twisted together

Screen:

tinned copper wire braid with 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: 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 installations 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]
S30587	2x0,5	5,3	42
S30588	3x0,5	5,6	50
S30589	4x0,5	6,2	58
S30590	5x0,5	6,7	74
S30591	6x0,5	7,2	85
S30592	7x0,5	7,2	88
S30593	8x0,5	8,0	100
S30594	10x0,5	9,1	120
S30595	12x0,5	9,3	134
S30596	14x0,5	9,8	150
S30597	16x0,5	10,5	175
S30598	18x0,5	11,0	193
S30599	20x0,5	11,7	211
S30600	21x0,5	11,7	214
S30602	27x0,5	13,4	271
S30603	30x0,5	13,8	294
S30605	37x0,5	15,1	356
S30606	40x0,5	16,3	390
S30607	44x0,5	17,3	442
S30609	48x0,5	17,5	470
S30610	52x0,5	18,0	503
S30611	56x0,5	18,6	537
S30613	61x0,5	19,1	577
S30615	2x0,75	5,8	50
S30616	3x0,75	6,1	59
S30617	4x0,75	6,7	75
S30618	5x0,75	7,2	88
S30619	6x0,75	7,9	104

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30620	7x0,75	7,9	109
S30621	8x0,75	8,7	125
S30622	10x0,75	9,9	148
S30623	12x0,75	10,2	173
S30624	14x0,75	10,8	193
S30625	16x0,75	11,5	217
S30626	18x0,75	12,4	251
S30627	20x0,75	13,1	275
S30628	21x0,75	13,1	280
S30631	27x0,75	14,8	348
S30632	30x0,75	15,3	383
S30635	37x0,75	17,8	465
S30636	40x0,75	19,0	522
S30637	2x1,0	6,5	58
S30638	3x1,0	6,9	76
S30639	4x1,0	7,6	92
S30640	5x1,0	8,3	110
S30641	6x1,0	9,0	131
S30642	7x1,0	9,0	137
S30643	8x1,0	9,9	159
S30644	10x1,0	11,4	194
S30645	12x1,0	11,7	220
S30646	14x1,0	12,7	256
S30647	16x1,0	13,5	291
S30648	18x1,0	14,3	330
S30649	20x1,0	15,2	365
S30650	21x1,0	15,2	370
S30653	27x1,0	17,4	479

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30654	30x1,0	17,9	521
S30656	37x1,0	19,4	625
S30657	2x1,5	7,1	74
S30658	3x1,5	7,5	94
S30659	4x1,5	8,4	116
S30660	5x1,5	9,1	141
S30661	6x1,5	9,9	169
S30662	7x1,5	9,9	177
S30663	8x1,5	11,0	210
S30664	10x1,5	13,0	259
S30665	12x1,5	13,4	295
S30666	14x1,5	14,2	340
S30667	16x1,5	15,1	386
S30668	18x1,5	15,8	431
S30669	20x1,5	17,2	502
S30670	21x1,5	17,2	510

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30673	27x1,5	19,3	632
S30674	30x1,5	20,0	690
S30676	37x1,5	21,7	834
S30677	2x2,5	8,5	126
S30678	3x2,5	9,0	168
S30679	4x2,5	10,0	195
S30680	5x2,5	10,9	210
S30681	6x2,5	11,9	278
S30682	7x2,5	11,9	296
S30683	8x2,5	13,6	345
S30684	10x2,5	15,8	403
S30685	12x2,5	16,5	540
S30686	14x2,5	17,5	589
S30687	16x2,5	18,7	640
S30688	18x2,5	19,6	681
S30689	20x2,5	21,1	762
S30690	21x2,5	21,1	816

paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30849	2x2x0,5	7,7	82
S30850	3x2x0,5	8,6	92
S30851	4x2x0,5	9,3	111
S30852	5x2x0,5	10,0	137
S30853	6x2x0,5	10,3	149
S30854	7x2x0,5	11,8	174
S30855	8x2x0,5	12,3	191
S30856	10x2x0,5	13,6	237
S30857	12x2x0,5	14,4	272
S30858	14x2x0,5	15,5	314
S30859	16x2x0,5	16,8	370
S30860	18x2x0,5	17,5	399
S30861	20x2x0,5	18,0	431
S30862	24x2x0,5	18,7	499
S30864	2x2x0,75	8,3	97
S30865	3x2x0,75	9,3	112
S30866	4x2x0,75	10,1	141
S30867	5x2x0,75	11,1	177
S30869	7x2x0,75	13,2	228
S30871	10x2x0,75	14,8	297
S30872	12x2x0,75	16,0	349

Cat. no.	n x 2 mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30873	14x2x0,75	17,1	410
S30874	16x2x0,75	18,5	476
S30875	18x2x0,75	19,3	512
S30877	2x2x1,0	9,5	121
S30878	3x2x1,0	10,8	150
S30879	4x2x1,0	11,7	179
S30880	5x2x1,0	13,1	232
S30882	7x2x1,0	15,3	298
S30884	10x2x1,0	17,4	405
S30885	12x2x1,0	18,7	476
S30886	14x2x1,0	19,9	538
S30887	16x2x1,0	21,4	622
S30888	18x2x1,0	22,4	673
S30890	2x2x1,5	10,1	145
S30891	3x2x1,5	11,6	178
S30892	4x2x1,5	12,6	218
S30893	5x2x1,5	14,0	285
S30895	7x2x1,5	16,4	366
S30897	10x2x1,5	18,8	508
S30898	12x2x1,5	20,1	588
S30899	14x2x1,5	21,5	678
S30900	16x2x1,5	23,0	774

*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