

Flexible control cables with coloured conductors, rated 300/300 V



industrial application



internal application



EN 60332-1-2



high flexibility

Technical data:

Thermal parameters:

Operating temperature:

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

Electrical parameters:

Operating voltage: $U_i/U = 300/300$ V

Test voltage: 1500 V

Insulation resistance: 20 M Ω x km

Approximate capacitance (at 800 Hz): 150 pF/m

Approximate inductance: 0,65 mH/km

Mechanical parameters:

Min. bending radius:

flexible connections: 7,5 x \varnothing
fixed installation: 4 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

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:

Cables designed 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 usage in internal systems, in both dry and damp rooms. Core arrangement ensures asymmetry attenuation of 10 dB. In the environment with considerable electromagnetic interference we recommend using a screened version - BIT LiYYC. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30079	2x0,5	4,7	33
S30080	3x0,5	5,0	40
S30081	4x0,5	5,5	48
S30082	5x0,5	6,0	58
S30083	6x0,5	6,5	68
S30084	7x0,5	6,5	72
S30085	8x0,5	7,4	82
S30086	10x0,5	8,4	97
S30087	12x0,5	8,7	112
S30088	14x0,5	9,1	128
S30089	16x0,5	9,6	144
S30090	18x0,5	10,1	162
S30091	20x0,5	10,9	184
S30092	21x0,5	10,9	188
S30094	27x0,5	12,7	252
S30095	30x0,5	13,2	268
S30097	37x0,5	14,2	322
S30098	40x0,5	15,3	360
S30099	44x0,5	16,3	404
S30101	48x0,5	16,6	430
S30102	52x0,5	17,0	460
S30103	56x0,5	17,5	492
S30104	61x0,5	18,1	530
S30105	2x0,75	5,1	41
S30106	3x0,75	5,4	50
S30107	4x0,75	6,0	60
S30108	5x0,75	6,5	74
S30109	6x0,75	7,1	88
S30110	7x0,75	7,1	92
S30111	8x0,75	8,0	105

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30112	10x0,75	9,2	124
S30113	12x0,75	9,5	144
S30114	14x0,75	10,0	165
S30115	16x0,75	10,8	192
S30116	18x0,75	11,3	216
S30117	20x0,75	11,9	240
S30118	21x0,75	11,9	245
S30120	27x0,75	14,2	330
S30121	30x0,75	14,4	348
S30123	37x0,75	15,8	427
S30124	40x0,75	17,2	465
S30127	2x1,0	5,8	53
S30128	3x1,0	6,2	65
S30129	4x1,0	6,8	79
S30130	5x1,0	7,6	100
S30131	6x1,0	8,3	120
S30132	7x1,0	8,3	125
S30133	8x1,0	9,2	137
S30134	10x1,0	10,8	169
S30135	12x1,0	11,1	196
S30136	14x1,0	11,7	223
S30137	16x1,0	12,4	255
S30138	18x1,0	13,5	300
S30139	20x1,0	14,1	332
S30149	2x1,5	6,2	65
S30150	3x1,5	6,6	81
S30151	4x1,5	7,5	103
S30152	5x1,5	8,2	125
S30153	6x1,5	8,9	150
S30154	7x1,5	8,9	160

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30155	8x1,5	9,9	174
S30156	10x1,5	11,6	215
S30157	12x1,5	12,0	250
S30158	14x1,5	12,6	285
S30159	16x1,5	13,7	338
S30160	18x1,5	14,5	380
S30161	20x1,5	15,4	430
S30171	2x2,5	7,8	104

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30172	3x2,5	8,4	130
S30173	4x2,5	9,3	160
S30174	5x2,5	10,2	196
S30175	6x2,5	11,3	240
S30176	7x2,5	11,3	255
S30177	8x2,5	13,0	290
S30178	10x2,5	14,9	350
S30179	12x2,5	15,6	415

paired cables

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30342	2x2x0,5	6,9	55
S30343	3x2x0,5	8,0	67
S30344	4x2x0,5	8,7	83
S30345	5x2x0,5	9,4	105
S30346	6x2x0,5	9,7	114
S30347	7x2x0,5	11,2	138
S30348	8x2x0,5	11,7	153
S30349	10x2x0,5	12,6	185
S30350	12x2x0,5	13,8	228
S30351	14x2x0,5	14,7	260
S30352	16x2x0,5	16,0	305
S30353	18x2x0,5	16,7	330
S30354	20x2x0,5	17,2	360
S30355	24x2x0,5	17,7	420
S30360	2x2x0,75	7,7	73
S30361	3x2x0,75	8,7	85
S30362	4x2x0,75	9,5	106
S30363	5x2x0,75	10,3	134
S30365	7x2x0,75	12,2	176
S30367	10x2x0,75	14,2	252
S30368	12x2x0,75	15,4	301

Cat. no.	n x 2 x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
S30369	14x2x0,75	16,3	343
S30370	16x2x0,75	17,5	395
S30371	18x2x0,75	18,5	437
S30377	2x2x1,0	8,9	94
S30378	3x2x1,0	10,0	110
S30379	4x2x1,0	11,1	143
S30380	5x2x1,0	12,1	181
S30382	7x2x1,0	14,5	245
S30384	10x2x1,0	16,6	338
S30385	12x2x1,0	17,7	395
S30386	14x2x1,0	19,1	460
S30387	16x2x1,0	20,4	530
S30388	18x2x1,0	21,6	585
S30394	2x2x1,5	9,5	116
S30395	3x2x1,5	11,0	142
S30396	4x2x1,5	12,0	180
S30397	5x2x1,5	13,4	240
S30399	7x2x1,5	15,8	315
S30401	10x2x1,5	17,8	427
S30402	12x2x1,5	19,3	510
S30403	14x2x1,5	20,7	595
S30404	16x2x1,5	22,2	680

*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