

BiT LiYCY

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



RoHS 2011/65/EU



LVD 2014/35/EU



CPR 305/2011



industrial
application



internal
application



EN 60332-1



high flexibility



EMC

Technical data:

Operating temperature:

Fixed installation: -40°C to 80°C

Flexible connections: -5°C to 80°C

Operating voltage: $U_0/U=300/300V$

Test voltage (50Hz): 1500V

Insulation resistance: 20MΩxkm

Approximate capacitance (at 800Hz):

Core/core - 150pF/m

Core/screen - 270pF/m

Approximate inductance: 0,65mH/km

Min. bending radius:

Flexible connections: 10xØ

Fixed installation: 5xØ

Construction:

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

Insulation: special PVC

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

Outer sheath 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]	Cu [kg/km]
S30587	2x0,5	5,3	42	28,0
S30588	3x0,5	5,6	50	37,0
S30589	4x0,5	6,2	58	43,0
S30590	5x0,5	6,7	74	51,0
S30591	6x0,5	7,2	85	64,0
S30592	7x0,5	7,2	88	65,0
S30593	8x0,5	8,0	100	68,0
S30594	10x0,5	9,1	120	88,0
S30595	12x0,5	9,3	134	98,0
S30596	14x0,5	9,8	150	120,0
S30597	16x0,5	10,5	175	129,0
S30598	18x0,5	11,0	193	138,0
S30599	20x0,5	11,7	211	149,0
S30600	21x0,5	11,7	214	158,0
S30602	27x0,5	13,4	271	209,0
S30603	30x0,5	13,8	294	230,0
S30605	37x0,5	15,1	356	290,0
S30606	40x0,5	16,3	390	311,0
S30607	44x0,5	17,3	442	332,0
S30609	48x0,5	17,5	470	353,0
S30610	52x0,5	18,0	503	385,0
S30611	56x0,5	18,6	537	408,0
S30613	61x0,5	19,1	577	432,0
S30615	2x0,75	5,8	50	36,0
S30616	3x0,75	6,1	59	47,0
S30617	4x0,75	6,7	75	56,0
S30618	5x0,75	7,2	88	65,0
S30619	6x0,75	7,9	104	83,0

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S30620	7x0,75	7,9	109	88,0
S30621	8x0,75	8,7	125	102,0
S30622	10x0,75	9,9	148	118,0
S30623	12x0,75	10,2	173	142,0
S30624	14x0,75	10,8	193	153,0
S30625	16x0,75	11,5	217	167,0
S30626	18x0,75	12,4	251	181,0
S30627	20x0,75	13,1	275	217,0
S30628	21x0,75	13,1	280	226,0
S30631	27x0,75	14,8	348	280,0
S30632	30x0,75	15,3	383	308,0
S30635	37x0,75	17,8	465	342,0
S30636	40x0,75	19,0	522	393,0
S30637	2x1,0	6,5	58	43,0
S30638	3x1,0	6,9	76	56,0
S30639	4x1,0	7,6	92	68,0
S30640	5x1,0	8,3	110	79,0
S30641	6x1,0	9,0	131	96,0
S30642	7x1,0	9,0	137	111,0
S30643	8x1,0	9,9	159	128,0
S30644	10x1,0	11,4	194	140,0
S30645	12x1,0	11,7	220	164,0
S30646	14x1,0	12,7	256	196,0
S30647	16x1,0	13,5	291	218,0
S30648	18x1,0	14,3	330	252,0
S30649	20x1,0	15,2	365	268,0
S30650	21x1,0	15,2	370	278,0
S30653	27x1,0	17,4	479	360,0

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S30654	30x1,0	17,9	521	392,0
S30656	37x1,0	19,4	625	485,0
S30657	2x1,5	7,1	74	58,0
S30658	3x1,5	7,5	94	72,0
S30659	4x1,5	8,4	116	96,0
S30660	5x1,5	9,1	141	116,0
S30661	6x1,5	9,9	169	142,0
S30662	7x1,5	9,9	177	152,0
S30663	8x1,5	11,0	210	168,0
S30664	10x1,5	13,0	259	188,0
S30665	12x1,5	13,4	295	254,0
S30666	14x1,5	14,2	340	272,0
S30667	16x1,5	15,1	386	285,0
S30668	18x1,5	15,8	431	350,0
S30669	20x1,5	17,2	502	387,0
S30670	21x1,5	17,2	510	402,0

Cat. no.	n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S30673	27x1,5	19,3	632	502,0
S30674	30x1,5	20,0	690	546,0
S30676	37x1,5	21,7	834	682,0
S30677	2x2,5	8,5	126	96,0
S30678	3x2,5	9,0	168	118,0
S30679	4x2,5	10,0	195	147,0
S30680	5x2,5	10,9	210	176,0
S30681	6x2,5	11,9	278	212,0
S30682	7x2,5	11,9	296	235,0
S30683	8x2,5	13,6	345	262,0
S30684	10x2,5	15,8	403	313,0
S30685	12x2,5	16,5	540	365,0
S30686	14x2,5	17,5	589	428,0
S30687	16x2,5	18,7	640	512,0
S30688	18x2,5	19,6	681	570,0
S30689	20x2,5	21,1	762	608,0
S30690	21x2,5	21,1	816	632,0

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

paired cables

Cat. no.	nx2xmm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S30849	2x2x0,5	7,7	82	40,9
S30850	3x2x0,5	8,6	92	50,5
S30851	4x2x0,5	9,3	111	69,7
S30852	5x2x0,5	10,0	137	82,9
S30853	6x2x0,5	10,3	149	96,3
S30854	7x2x0,5	11,8	174	105,8
S30855	8x2x0,5	12,3	191	117,8
S30856	10x2x0,5	13,6	237	143,5
S30857	12x2x0,5	14,4	272	162,4
S30858	14x2x0,5	15,5	314	185,4
S30859	16x2x0,5	16,8	370	225,7
S30860	18x2x0,5	17,5	399	251,9
S30861	20x2x0,5	18,0	431	276,4
S30862	24x2x0,5	18,7	499	321,1
S30864	2x2x0,75	8,3	97	61,4
S30865	3x2x0,75	9,3	112	75,3
S30866	4x2x0,75	10,1	141	93,1
S30867	5x2x0,75	11,1	177	111,5
S30869	7x2x0,75	13,2	228	144,0
S30871	10x2x0,75	14,8	297	196,6
S30872	12x2x0,75	16,0	349	245,4

Cat. no.	nx2mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S30873	14x2x0,75	17,1	410	281,6
S30874	16x2x0,75	18,5	476	314,2
S30875	18x2x0,75	19,3	512	351,3
S30877	2x2x1,0	9,5	121	69,7
S30878	3x2x1,0	10,8	150	91,8
S30879	4x2x1,0	11,7	179	113,0
S30880	5x2x1,0	13,1	232	137,3
S30882	7x2x1,0	15,3	298	179,0
S30884	10x2x1,0	17,4	405	273,9
S30885	12x2x1,0	18,7	476	307,2
S30886	14x2x1,0	19,9	538	364,4
S30887	16x2x1,0	21,4	622	409,5
S30888	18x2x1,0	22,4	673	455,9
S30890	2x2x1,5	10,1	145	91,8
S30891	3x2x1,5	11,6	178	122,7
S30892	4x2x1,5	12,6	218	162,2
S30893	5x2x1,5	14,0	285	196,6
S30895	7x2x1,5	16,4	366	267,9
S30897	10x2x1,5	18,8	508	367,7
S30898	12x2x1,5	20,1	588	430,8
S30899	14x2x1,5	21,5	678	494,4
S30900	16x2x1,5	23,0	774	556,4

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