

LiYCY

Elektronik-Steuerleitung
in Anlehnung an DIN VDE 0812

Electronic control cables
in dependence on DIN VDE 0812



Anwendung

Als geschirmte Anschluss- und Verbindungsleitung in der Mess-, Steuer- und Regeltechnik. Für Starkstrominstallation und Erdverlegung nicht zugelassen.

Aufbau

Kupferleiter	blanke, feindrähtige Litze
Isolation	PVC
Aderkennzeichnung	gem. DIN 47100
Verseilung	Adern in Lagen verseilt
Bewicklung	Kunststoffolie
Abschirmung	verzinnertes Kupfergeflecht, (opt. Bedeckung ca. 80%)
Mantel	PVC, Farbe: grau, vorzugsweise RAL 7001

Technische Daten

Querschnitt	Litzenleiter	Leiterwiderstand
0,14 mm ²	18 x 0,10 mm	max. 148 Ω/km
0,25 mm ²	14 x 0,15 mm	max. 79,9 Ω/km
0,34 mm ²	7 x 0,25 mm	max. 57,5 Ω/km
0,5 mm ²	16 x 0,20 mm	max. 38,9 Ω/km
0,75 mm ²	24 x 0,20 mm	max. 26,0 Ω/km
1,0 mm ²	32 x 0,20 mm	max. 19,5 Ω/km
1,5 mm ²	30 x 0,25 mm	max. 13,3 Ω/km

Isolationswiderstand	min. 20 MΩ x km
Prüfspannung 0,14 mm ²	800 V
Prüfspannung übrige	1200 V
Betriebsspitzenspannung 0,14 mm ²	350 V
Betriebsspitzenspannung übrige	500 V
Temperaturbereich	
bewegt:	- 5°C ... 50°C
unbewegt:	- 30°C ... 80°C

Application

To be used in areas as tool making and machine industries as well as electronic measurement and control sectors. Not suitable for laying directly in the ground and power engineering.

Construction

Copper conductor	bare, fine wired
Insulation	PVC
Core identification	acc. to DIN 47100
Stranding	cores stranded in layers
Bewicklung	plastic foil
Screening	tinned copper braided screen, (approx. 80% coverage)
Sheath	PVC, colour: grey, preferably RAL 7001

Technical data

Cross-section	Stranded cond.	Cond. resistance
0,14 mm ²	18 x 0,10 mm	max. 148 Ω/km
0,25 mm ²	14 x 0,15 mm	max. 79,9 Ω/km
0,34 mm ²	7 x 0,25 mm	max. 57,5 Ω/km
0,5 mm ²	16 x 0,20 mm	max. 38,9 Ω/km
0,75 mm ²	24 x 0,20 mm	max. 26,0 Ω/km
1,0 mm ²	32 x 0,20 mm	max. 19,5 Ω/km
1,5 mm ²	30 x 0,25 mm	max. 13,3 Ω/km

Insulation resistance	min. 20 MΩ x km
Test voltage 0,14 mm ²	800 V
Test voltage others	1200 V
Peak operating voltage 0,14 mm ²	350 V
Peak operating voltage others	500 V
Temperature range	
flexing:	- 5°C ... 50°C
fixed installation:	- 30°C ... 80°C

Aderzahl x Nennquerschnitt No. cores x cross-sec.	ca. Außen-Ø approx. outer Ø	Cu-Zahl Copper content	Gewicht Weight	Bestell-Nr. XBK-code	Aderzahl x Nennquerschnitt No. cores x cross-sec.	ca. Außen-Ø approx. outer Ø	Cu-Zahl Copper content	Gewicht Weight	Bestell-Nr. XBK-code
mm ²	mm	kg/km	kg/km		mm ²	mm	kg/km	kg/km	
LiYCY									
2 x 0,14	3,7	12,6	21,0	30031406 x	14 x 0,34	8,7	78,0	140,0	①
3 x 0,14	3,9	14,1	25,0	30031506 x	16 x 0,34	9,2	87,0	147,0	30040706 x
4 x 0,14	4,1	15,9	29,0	30031606 x	18 x 0,34	10,2	108,0	172,0	30040806 x
5 x 0,14	4,4	19,6	35,0	30031706 x	20 x 0,34	10,7	124,0	189,0	①
6 x 0,14	4,7	22,0	38,0	30031806 x	21 x 0,34	10,7	127,0	196,0	①
7 x 0,14	4,7	24,0	41,0	30031906 x	24 x 0,34	11,7	140,0	229,0	①
8 x 0,14	5,0	26,0	45,0	30032006 x	27 x 0,34	11,9	154,0	235,0	①
9 x 0,14	5,5	26,0	45,0	30032006 x	30 x 0,34	12,3	162,0	260,0	30041306
10 x 0,14	5,9	29,0	29,0	30032206 x	32 x 0,34	12,8	171,0	275,0	①
12 x 0,14	6,1	32,0	61,0	30032106 x	36 x 0,34	13,2	188,0	295,0	①
14 x 0,14	6,3	35,0	67,0	30032506 x	40 x 0,34	13,7	208,0	330,0	①
16 x 0,14	6,8	49,0	81,0	30034506 x	42 x 0,34	15,1	215,0	353,0	①
18 x 0,14	7,1	54,0	92,0	30032306 x	44 x 0,34	15,1	223,0	360,0	①
20 x 0,14	7,4	58,0	104,0	①	2 x 0,5	5,2	29,0	41,0	30043106 x
21 x 0,14	7,4	60,0	106,0	①	3 x 0,5	5,7	35,0	55,0	30043206 x
24 x 0,14	8,1	74,0	118,0	30032806 x	4 x 0,5	6,1	45,0	68,0	30043306 x
25 x 0,14	8,3	78,0	120,0	30019506 x	5 x 0,5	6,8	50,0	82,0	30043406 x
27 x 0,14	8,3	85,0	123,0	①	6 x 0,5	7,4	59,0	104,0	30043506 x
30 x 0,14	8,5	98,0	135,0	①	7 x 0,5	7,4	68,0	109,0	30043606 x
32 x 0,14	8,8	108,0	146,0	①	8 x 0,5	7,9	75,0	123,0	30043706 x
36 x 0,14	9,1	117,0	157,0	30033206 x	10 x 0,5	9,1	93,0	135,0	30043806 x
40 x 0,14	9,4	126,0	166,0	①	12 x 0,5	9,4	117,0	160,0	30043906 x
42 x 0,14	10,7	132,0	178,0	①	16 x 0,5	10,9	129,0	210,0	30044006 x
44 x 0,14	10,7	138,0	195,0	①	20 x 0,5	12,0	165,0	270,0	①
48 x 0,14	10,9	145,0	206,0	①	24 x 0,5	13,2	190,0	320,0	30044206 x
52 x 0,14	11,1	155,0	212,0	①	25 x 0,5	13,5	211,0	335,0	①
56 x 0,14	11,4	166,0	220,0	①	2 x 0,75	5,8	35,0	50,0	30045306 x
61 x 0,14	11,7	176,0	250,0	①	3 x 0,75	6,1	46,0	71,0	30045406 x
2 x 0,25	4,3	15,0	20,0	30036406 x	4 x 0,75	6,8	56,0	78,0	30045506 x
3 x 0,25	4,5	18,0	35,0	30036506 x	5 x 0,75	7,4	70,0	100,0	30045606 x
4 x 0,25	4,8	22,0	44,0	30036606 x	6 x 0,75	8,0	85,0	116,0	30062306 x
5 x 0,25	5,2	25,0	50,0	30036706 x	7 x 0,75	8,0	98,0	131,0	30045806 x
6 x 0,25	5,8	30,0	58,0	30036806 x	8 x 0,75	8,5	110,0	151,0	30044106 x
7 x 0,25	5,8	32,0	60,0	30036906 x	10 x 0,75	10,5	131,0	173,0	30046006 x
8 x 0,25	6,2	35,0	67,0	30037006 x	12 x 0,75	10,8	154,0	218,0	30046106 x
10 x 0,25	7,3	42,0	81,0	30037106 x	18 x 0,75	12,5	205,0	300,0	①
12 x 0,25	7,5	50,0	91,0	30037206 x	20 x 0,75	13,0	220,0	331,0	①
14 x 0,25	7,8	64,0	116,0	30037306 x	24 x 0,75	14,8	250,0	376,0	①
16 x 0,25	8,2	71,0	133,0	30037406 x	27 x 0,75	15,1	277,0	448,0	①
18 x 0,25	8,6	80,0	137,0	30041006	30 x 0,75	15,6	315,0	486,0	①
20 x 0,25	9,0	100,0	153,0	30065006 x	2 x 1	6,1	46,0	74,0	30047906 x
21 x 0,25	9,0	105,0	171,0	①	3 x 1	6,4	54,0	89,0	30019306 x
24 x 0,25	10,5	115,0	185,0	30066006 x	4 x 1	7,2	69,0	107,0	30049006 x
25 x 0,25	10,7	117,0	190,0	30051306 x	5 x 1	7,8	82,0	132,0	30048506 x
27 x 0,25	10,7	120,0	200,0	30037806 x	7 x 1	8,4	118,0	158,0	30047706 x
30 x 0,25	11,0	132,0	214,0	①	8 x 1	9,1	130,0	179,0	30048006 x
32 x 0,25	11,4	138,0	227,0	①	10 x 1	11,1	145,0	215,0	30047306 x
36 x 0,25	11,8	152,0	250,0	①	12 x 1	11,4	166,0	254,0	30049406 x
40 x 0,25	12,2	164,0	289,0	①	16 x 1	12,6	220,0	330,0	①
42 x 0,25	12,7	172,0	295,0	①	18 x 1	13,2	249,0	366,0	30037606 x
44 x 0,25	13,1	179,0	300,0	①	20 x 1	13,8	269,0	399,0	①
48 x 0,25	13,3	209,0	310,0	①	25 x 1	16,2	331,0	478,0	30048606 x
52 x 0,25	13,6	234,0	340,0	①	2 x 1,5	6,9	56,0	86,0	30019706 x
56 x 0,25	14,0	259,0	360,0	①	3 x 1,5	7,3	74,0	107,0	30046706 x
61 x 0,25	14,8	287,0	385,0	①	4 x 1,5	7,9	91,0	129,0	30046906 x
2 x 0,34	4,7	17,0	33,0	30039806 x	5 x 1,5	8,6	129,0	150,0	30051106 x
3 x 0,34	4,9	21,0	41,0	30039906 x	7 x 1,5	9,3	141,0	192,0	30051206 x
4 x 0,34	5,5	25,0	48,0	30040006 x	8 x 1,5	10,6	157,0	219,0	①
5 x 0,34	6,0	30,0	58,0	30040106 x	10 x 1,5	12,3	195,0	274,0	①
6 x 0,34	6,4	36,0	64,0	30067006 x	12 x 1,5	12,7	228,0	315,0	30049106 x
7 x 0,34	6,4	42,0	70,0	30040206 x	18 x 1,5	15,1	336,0	450,0	①
8 x 0,34	7,1	45,0	93,0	30033006 x	20 x 1,5	15,8	375,0	500,0	①
10 x 0,34	8,1	63,0	110,0	30040406 x	25 x 1,5	18,1	459,0	618,0	①
12 x 0,34	8,3	70,0	120,0	30040506 x					