

Elektronik-Steuerleitung

in Anlehnung an DIN VDE 0812

LiYCY

Electronic control cables

in dependence on DIN VDE 0812

LiYCY

Anwendung

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

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.

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

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

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 mm² 800 V
Prüfspannung übrige 1200 V

Betriebsspitzenspannung 0,14 mm² 350 V
Betriebsspitzenspannung übrige 500 V

Temperaturbereich
bewegt - 5°C ... 50°C
unbewegt - 30°C ... 80°C

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 mm² 800 V
Test voltage others 1200 V

Peak operating voltage 0,14 mm² 350 V
Peak operating voltage others 500 V

Temperature range
flexing - 5°C ... 50°C
fixed installation - 30°C ... 80°C



Bestell-Nr. XBK-code	Abmessung Section	ca. Außen-Ø approx. outer Ø	Cu-Zahl Copper content	Gewicht Weight	Bestell-Nr. XBK-code	Abmessung Section	ca. Außen-Ø approx. outer Ø	Cu-Zahl Copper content	Gewicht Weight
	mm ²	mm	kg/km	kg/km		mm ²	mm	kg/km	kg/km
LiYCY									
30031406 x	2 x 0,14	3,7	12,6	21,0		14 x 0,34	8,7	78,0	140,0
30031506 x	3 x 0,14	3,9	14,1	25,0	30040706 x	16 x 0,34	9,2	87,0	147,0
30031606 x	4 x 0,14	4,1	15,9	29,0	30040806 x	18 x 0,34	10,2	108,0	172,0
30031706 x	5 x 0,14	4,4	19,6	35,0		20 x 0,34	10,7	124,0	189,0
30031806 x	6 x 0,14	4,7	22,0	38,0		21 x 0,34	10,7	127,0	196,0
30031906 x	7 x 0,14	4,7	24,0	41,0		24 x 0,34	11,7	140,0	229,0
30032006 x	8 x 0,14	5,0	26,0	45,0		27 x 0,34	11,9	154,0	235,0
30032006 x	9 x 0,14	5,5	26,0	45,0	30041306	30 x 0,34	12,3	162,0	260,0
30032206 x	10 x 0,14	5,9	29,0	29,0		32 x 0,34	12,8	171,0	275,0
30032106 x	12 x 0,14	6,1	32,0	61,0		36 x 0,34	13,2	188,0	295,0
30032506 x	14 x 0,14	6,3	35,0	67,0		40 x 0,34	13,7	208,0	330,0
30034506 x	16 x 0,14	6,8	49,0	81,0		42 x 0,34	15,1	215,0	353,0
30032306 x	18 x 0,14	7,1	54,0	92,0		44 x 0,34	15,1	223,0	360,0
	20 x 0,14	7,4	58,0	104,0	30043106 x	2 x 0,5	5,2	29,0	41,0
	21 x 0,14	7,4	60,0	106,0	30043206 x	3 x 0,5	5,7	35,0	55,0
30032806 x	24 x 0,14	8,1	74,0	118,0	30043306 x	4 x 0,5	6,1	45,0	68,0
30019506 x	25 x 0,14	8,3	78,0	120,0	30043406 x	5 x 0,5	6,8	50,0	82,0
	27 x 0,14	8,3	85,0	123,0	30043506 x	6 x 0,5	7,4	59,0	104,0
	30 x 0,14	8,5	98,0	135,0	30043606 x	7 x 0,5	7,4	68,0	109,0
	32 x 0,14	8,8	108,0	146,0	30043706 x	8 x 0,5	7,9	75,0	123,0
30033206 x	36 x 0,14	9,1	117,0	157,0	30043806 x	10 x 0,5	9,1	93,0	135,0
	40 x 0,14	9,4	126,0	166,0	30043906 x	12 x 0,5	9,4	117,0	160,0
	42 x 0,14	10,7	132,0	178,0	30044006 x	16 x 0,5	10,9	129,0	210,0
	44 x 0,14	10,7	138,0	195,0		20 x 0,5	12,0	165,0	270,0
	48 x 0,14	10,9	145,0	206,0	30044206 x	24 x 0,5	13,2	190,0	320,0
	52 x 0,14	11,1	155,0	212,0		25 x 0,5	13,5	211,0	335,0
	56 x 0,14	11,4	166,0	220,0	30045306 x	2 x 0,75	5,8	35,0	50,0
	61 x 0,14	11,7	176,0	250,0	30045406 x	3 x 0,75	6,1	46,0	71,0
30036406 x	2 x 0,25	4,3	15,0	20,0	30045506 x	4 x 0,75	6,8	56,0	78,0
30036506 x	3 x 0,25	4,5	18,0	35,0	30045606 x	5 x 0,75	7,4	70,0	100,0
30036606 x	4 x 0,25	4,8	22,0	44,0	30062306 x	6 x 0,75	8,0	85,0	116,0
30036706 x	5 x 0,25	5,2	25,0	50,0	30045806 x	7 x 0,75	8,0	98,0	131,0
30036806 x	6 x 0,25	5,8	30,0	58,0	30044106 x	8 x 0,75	8,5	110,0	151,0
30036906 x	7 x 0,25	5,8	32,0	60,0	30046006 x	10 x 0,75	10,5	131,0	173,0
30037006 x	8 x 0,25	6,2	35,0	67,0	30046106 x	12 x 0,75	10,8	154,0	218,0
30037106 x	10 x 0,25	7,3	42,0	81,0		18 x 0,75	12,5	205,0	300,0
30037206 x	12 x 0,25	7,5	50,0	91,0		20 x 0,75	13,0	220,0	331,0
30037306 x	14 x 0,25	7,8	64,0	116,0		24 x 0,75	14,8	250,0	376,0
30037406 x	16 x 0,25	8,2	71,0	133,0		27 x 0,75	15,1	277,0	448,0
30041006	18 x 0,25	8,6	80,0	137,0		30 x 0,75	15,6	315,0	486,0
30065006 x	20 x 0,25	9,0	100,0	153,0	30047906 x	2 x 1	6,1	46,0	74,0
	21 x 0,25	9,0	105,0	171,0	30019306 x	3 x 1	6,4	54,0	89,0
30066006 x	24 x 0,25	10,5	115,0	185,0	30049006 x	4 x 1	7,2	69,0	107,0
30051306 x	25 x 0,25	10,7	117,0	190,0	30048506 x	5 x 1	7,8	82,0	132,0
30037806 x	27 x 0,25	10,7	120,0	200,0	30047706 x	7 x 1	8,4	118,0	158,0
	30 x 0,25	11,0	132,0	214,0	30048006 x	8 x 1	9,1	118,0	179,0
	32 x 0,25	11,4	138,0	227,0	30047306 x	10 x 1	11,1	145,0	215,0
	36 x 0,25	11,8	152,0	250,0	30049406 x	12 x 1	11,4	166,0	254,0
	40 x 0,25	12,2	164,0	289,0		16 x 1	12,6	220,0	330,0
	42 x 0,25	12,7	172,0	295,0	30037606 x	18 x 1	13,2	249,0	366,0
	44 x 0,25	13,1	179,0	300,0		20 x 1	13,8	269,0	399,0
	48 x 0,25	13,3	209,0	310,0	30048606 x	25 x 1	16,2	331,0	478,0
	52 x 0,25	13,6	234,0	340,0	30019706 x	2 x 1,5	6,9	56,0	86,0
	56 x 0,25	14,0	259,0	360,0	30046706 x	3 x 1,5	7,3	74,0	107,0
	61 x 0,25	14,8	287,0	385,0	30046906 x	4 x 1,5	7,9	91,0	129,0
30039806 x	2 x 0,34	4,7	17,0	33,0	30051106 x	5 x 1,5	8,6	129,0	150,0
30039906 x	3 x 0,34	4,9	21,0	41,0	30051206 x	7 x 1,5	9,3	141,0	192,0
30040006 x	4 x 0,34	5,5	25,0	48,0		8 x 1,5	10,6	157,0	219,0
30040106 x	5 x 0,34	6,0	30,0	58,0		10 x 1,5	12,3	195,0	274,0
30067006 x	6 x 0,34	6,4	36,0	64,0	30049106 x	12 x 1,5	12,7	228,0	315,0
30040206 x	7 x 0,34	6,4	42,0	70,0		18 x 1,5	15,1	336,0	450,0
30033006 x	8 x 0,34	7,1	45,0	93,0		20 x 1,5	15,8	375,0	500,0
30040406 x	10 x 0,34	8,1	63,0	110,0		25 x 1,5	18,1	459,0	618,0
30040506 x	12 x 0,34	8,3	70,0	120,0					