ELITRONIC®-CY LIYCY

DIN47100, 250V, shielded, CPR Eca
UN/ECE-R 118.02

APPLICATION

data transmission cable, control and connecting cable predominantly for transmission of analog and digital signals in process controlled facilities in measurement and control technology for lossless transmission of datas and signals. For fixed laying and flexible applications with undefined cable routing and without tensile stress. Suitable for use in dry and humid rooms. Outdoor use only with UV-protection, no laying underground.

SPECIAL FEATURES

- largely resistant to acids, alkalis and certain oils.
- LABS-free/silicone-free (during production)
- Recommended for EMC-compliant application
- flame retardant & tested according to UN/ECE-R 118.02

REMARKS

- RoHS compliant
- Compliant with the 2014/35/EU Directive (''Low Voltage Directive'') CE
- Special versions, other dimensions, cross-sections, wire and sheath colors are available on request

PRODUCT DETAILS

DESIGN

Conductor material	bare copper strand
Conductor class	acc. to IEC 60228 cl. 5; exception: 0,34 mm², stranded (7 x 0,25 mm)
Core insulation	PVC
Core identification	acc. to DIN 47100 different colours
Stranding	stranded in layers
Overall shield	copper braid tinned, coverage approx. 85%
Outer sheath material	PVC
Sheath colour	grey, RAL 7001; LIYCY single core: grey RAL 7001 or transparent

ELECTRICAL PROPERTIES

Rated voltage AC IEC	Uo/U: 250 V; peak-voltage on 0,14 mm² 350 V; > 0,14 mm² 500 V
Testing voltage	on 0,14 mm² core/core: 1,2 kV; core/shield: 1,0 kV > 0,14 mm²: core/core: 1,5 kV; core/shield: 1,0 kV
Conductor resistance	acc.to IEC 60228 cl. 5
Insulation resistance	min. 20 MΩ x km
Current carrying capacity	acc. to DIN VDE, see Technical Guidelines
Capacity	core/core ca. 120 nF/km; core/shield ca. 160 nF/km

MECHANICAL & DYNAMIC PROPERTIES

Min. bending radius fixed	up to 12 mm Ø 5 x d; up to 20 mm Ø 7,5 x d; > 20 mm Ø 10 x d
Min. bending radius moved	up to 12 mm Ø 10 x d; up to 20 mm Ø 15 x d; > 20 mm Ø 20 x d

THERMAL PROPERTIES

Operat. temp. fixed min./max. [°C]	-30 °C / +80 °C
Operat. temp. moved min/max [°C]	-5 °C / +70 °C

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PROPERTIES IN CASE OF FIRE

Burning behavior	self-extinguishing & flame-retardant acc.to IEC 60332-1

STANDARDS & APPROVALS

Standard	similar to DIN VDE 0812
Approvals	UN/ECE-R 118.02: DEKRA TR 202460180

ITEM OVERVIEW

ELITRONIC-CY LIYCY

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0500302	2 X 0,14	3,7	12,0	18,0
0500325	3 X 0,14	3,8	13,0	22,0
0500335	4 X 0,14	4,1	14,3	25,0
0500345	5 X 0,14	4,6	15,5	31,0
0500351	6 X 0,14	4,8	18,2	34,0
0500357	7 X 0,14	4,9	19,0	38,0
0500361	8 X 0,14	5,3	24,0	41,0
0500254	10 X 0,14	5,9	29,0	49,0
0500261	12 X 0,14	6,1	32,1	54,0
0500268	14 X 0,14	6,4	35,0	63,0
0500274	16 X 0,14	7,0	43,0	68,0
0500278	18 X 0,14	7,1	46,7	73,0
0500282	20 X 0,14	7,4	63,0	79,0
0500286	21 X 0,14	7,5	55,5	80,0
0500292	24 X 0,14	8,1	60,4	98,0
0500295	25 X 0,14	8,2	63,0	103,0
0500298	27 X 0,14	8,3	65,0	104,0
0500301	28 X 0,14	8,4	66,1	113,0
0500312	32 X 0,14	8,8	79,5	124,0
0500317	36 X 0,14	9,3	85,0	131,0
0501487	37 X 0,14	9,4	86,5	133,0
0500331	40 X 0,14	10,0	101,0	152,0
0506921	44 X 0,14	10,7	111,0	168,0
0500341	50 X 0,14	11,1	123,0	183,0
0506922	50 X 0,14	11,1	123,0	183,0
0500344	52 X 0,14	11,4	126,0	191,0
0500633	61 X 0,14	12,4	142,0	232,0
0500307	2 X 0,25	4,3	16,0	27,0
0500327	3 X 0,25	4,4	21,0	30,0
0500337	4 X 0,25	4,8	24,0	35,0
0500348	5 X 0,25	5,3	29,0	44,0
0500355	6 X 0,25	5,7	30,0	49,0
0500358	7 X 0,25	5,8	37,0	52,0
0500365	8 X 0,25	6,2	42,0	59,0
0506523	9 X 0,25	6,4	44,0	71,0
0500259	10 X 0,25	7,1	46,0	71,0
0500265	12 X 0,25	7,3	59,0	79,0
0500270	14 X 0,25	7,7	62,0	88,0
0500276	16 X 0,25	8,1	64,0	105,0
0500280	18 X 0,25	8,5	83,0	114,0
0500285	20 X 0,25	8,9	88,0	124,0
0500288	21 X 0,25	9,0	93,0	126,0
0500293	24 X 0,25	10,4	112,0	156,0
0500297	25 X 0,25	10,5	114,0	164,0
0500299	27 X 0,25	10,6	123,0	167,0
0506923	28 X 0,25	10,8	126,0	169,0
0500314	32 X 0,25	11,2	138,0	203,0
0500320	36 X 0,25	11,8	148,0	210,0
0500332	40 X 0,25	12,3	157,0	229,0
0506924	44 X 0,25	13,2	165,0	255,0
0507248	48 X 0,25	13,6	175,0	284,0
0500342	50 X 0,25	13,8	178,0	298,0
0502336	50 X 0,25	13,8	178,0	298,0
0502661	56 X 0,25	14,6	189,0	342,0
0500649	61 X 0,25	15,0	205,0	347,0
0506925	61 X 0,25	15,0	205,0	347,0
0500308	2 X 0,34	4,7	21,0	31,0
0500329	3 X 0,34	4,9	27,0	40,0

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Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0500339	4 X 0,34	5,4	28,0	48,0
0500349	5 X 0,34	5,8	30,0	53,0
0500356	6 X 0,34	6,3	45,0	60,0
0500359	7 X 0,34	6,4	48,0	65,0
0500366	8 X 0,34	7,0	52,0	75,0
0500260	10 X 0,34	7,9	74,0	89,0
0500264	12 X 0,34	8,2	80,0	113,0
0500272	14 X 0,34	8,6	86,0	120,0
0500277	16 X 0,34	9,0	94,0	132,0
0500281	18 X 0,34	9,8	103,0	144,0
0500287	20 X 0,34	10,5	112,0	169,0
0500289	21 X 0,34	10,7	116,0	172,0
0500291	24 X 0,34	11,7	132,0	199,0
0506926	25 X 0,34	11,7	135,0	209,0
0500300	27 X 0,34	11,8	148,0	217,0
0506927	28 X 0,34	11,9	153,0	227,0
0500311	30 X 0,34	12,2	159,0	235,0
0500315	32 X 0,34	12,5	165,0	247,0
0500321	36 X 0,34	13,2	179,0	277,0
0500333	40 X 0,34	14,1	200,0	316,0
0506928	44 X 0,34	15,3	215,0	350,0
0501782	50 X 0,34	15,9	235,0	387,0
0500794	50 X 0,34	15,9	235,0	387,0
0500350	61 X 0,34	16,8	298,0	423,0
0507287	61 X 0,34	16,8	298,0	610,0
0500580	2 X 0,5	5,2	29,0	40,0
0500600	3 X 0,5	5,5	38,0	46,0
0500619	4 X 0,5	6,0	43,0	54,0
0500640	5 X 0,5	6,3	51,0	63,0
0500658	6 X 0,5	7,0	59,0	75,0
0500653	7 X 0,5	7,2	65,0	82,0
0500667	8 X 0,5	7,7	70,0	92,0
0503298	9 X 0,5	8,1	68,3	101,0
0500530	10 X 0,5	8,8	88,0	118,0
0500534	12 X 0,5	9,1	99,0	132,0
0500547	16 X 0,5	10,6	125,0	175,0
0500551	18 X 0,5	11,1	134,0	195,0
0500559	20 X 0,5	11,9	149,0	212,0
0500566	24 X 0,5	12,8	189,0	254,0
0500570	25 X 0,5	13,3	211,0	266,0
0500575	27 X 0,5	13,7	223,0	287,0
0501811	30 X 0,5	14,0	230,0	318,0
0500595	32 X 0,5	14,2	242,0	340,0
0500610	40 X 0,5	15,6	345,0	428,0
0502662	50 X 0,5	16,2	407,0	517,0
0500586	2 X 0,75	5,9	38,0	48,0
0500602	3 X 0,75	6,1	49,0	57,0
0500623	4 X 0,75	6,7	58,0	77,0
0500641	5 X 0,75	7,3	67,0	98,0
0500650	6 X 0,75	7,9	85,0	115,0
0500655	7 X 0,75	8,1	100,0	120,0
0500659	8 X 0,75	8,4	118,0	139,0
0506443	9 X 0,75	9,2	120,0	157,0
0500531	10 X 0,75	10,5	130,0	164,0
0500537	12 X 0,75	10,8	154,0	196,0
0500548	16 X 0,75	11,9	183,0	262,0
0500552	18 X 0,75	12,6	195,0	284,0
0500567	24 X 0,75	15,0	262,0	357,0
0500571	25 X 0,75	15,2	280,0	361,0
0500594	30 X 0,75	16,0	315,0	443,0
0504014	34 X 0,75	16,8	350,0	494,0
0507309	36 X 0,75	17,4	370,0	529,0
0500654	61 X 0,75	22,0	555,0	898,0
0500588	2 X 1	6,1	43,0	55,0
0500606	3 X 1	6,5	56,0	80,0
0500626	4 X 1	7,0	68,0	97,0
0500644	5 X 1	7,6	79,0	116,0
0500661	6 X 1	8,0	95,0	129,0
0500665	7 X 1	8,4	118,0	136,0
0507308	8 X 1	9,0	135,0	155,0
0500673	9 X 1	9,3	136,0	176,0
0500532	10 X 1	10,9	140,0	197,0

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Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0500538	12 X 1	11,4	168,0	227,0
0500553	18 X 1	13,4	252,0	325,0
0500775	20 X 1	14,5	290,0	361,0
0500568	24 X 1	15,6	320,0	496,0
0506908	25 X 1	16,2	335,0	459,0
0500589	2 X 1,5	7,1	58,0	86,0
0500605	3 X 1,5	7,4	74,0	107,0
0500628	4 X 1,5	8,1	108,0	119,0
0500645	5 X 1,5	8,9	129,0	142,0
0500657	7 X 1,5	9,8	164,0	193,0
0500670	8 X 1,5	11,3	192,0	255,0
0506349	9 X 1,5	11,9	210,0	273,0
0500539	12 X 1,5	13,0	254,0	312,0
0500554	18 X 1,5	15,9	350,0	465,0
0501551	25 X 1,5	19,2	550,0	618,0
0506612	3 X 2,5	8,5	118,0	145,0
0500629	4 X 2,5	9,1	150,0	195,0
0500646	5 X 2,5	10,5	181,5	247,0
0500666	7 X 2,5	13,7	231,2	341,0

ELITRONIC-CY LIYCY - Einzelader, grau / single core, grey

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0500563	1 X 0,14	2,6	6,0	12,8
0500523	1 X 0,25	3,0	7,5	17,5
0500524	1 X 0,50	3,4	10,2	20,0
0500525	1 X 0,75	3,6	15,7	31,0
0500526	1 X 1,00	3,7	23,8	32,0
0500527	1 X 1,50	4,0	25,2	39,0
0500774	1 X 2,50	5,8	37,6	55,3
0502629	1 X 4	6,0	70,0	85,0

ELITRONIC-CY LIYCY - Einzelader, transp. / single core, transp.

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0501025	1 X 0,14	2,6	6,0	12,8
0501026	1 X 0,25	3,0	7,5	17,5
0501027	1 X 0,50	3,4	10,2	20,0
0501030	1 X 0,75	3,6	15,7	31,0
0501031	1 X 1,00	3,7	23,8	32,0
0501032	1 X 1,50	4,0	25,2	39,0
0501033	1 X 2,50	5,8	37,6	55,3