

# TRONIC (LiYY)

flexible, colour coded to DIN 47100, meter marking



HELUKABEL TRONIC (LiYY) 10x0,25 QMM / 18036 001042209



## Technical data

- Special-PVC data cables adapted to DIN VDE 0812
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Operating peak voltage**  
(not for heavy current installation purposes)  
0,14 mm<sup>2</sup> 350 V  
≥ 0,25 mm<sup>2</sup> 500 V
- **Test voltage**  
up to 0,25 mm<sup>2</sup> 1200 V  
from 0,34 mm<sup>2</sup> 2000 V
- **Breakdown voltage**  
up to 0,25 mm<sup>2</sup> 2400 V  
from 0,34 mm<sup>2</sup> 4000 V
- **Capacitance** at 800 Hz  
0,14 mm<sup>2</sup> approx. 120 pF/m  
0,25 mm<sup>2</sup> approx. 150 pF/m
- **Inductance**  
approx. 0,65 mH/km
- **Impedance**  
approx. 78 Ohm
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable structure

- Bare copper conductor, from 0,5 mm<sup>2</sup> to DIN VDE 0295 cl.5, fine wire, BS 6360 cl.5, IEC 60228 cl.5
- Conductor construction:  
0,14 mm<sup>2</sup> approx. 18x0,1 mm  
0,25 mm<sup>2</sup> approx. 14x0,15 mm  
0,34 mm<sup>2</sup> = 7x0,25 mm
- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification adapted to DIN 47100, without colour repetition
- Cores stranded in layers with optimal lay length
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour: grey (RAL 7001)
- With meter marking

## Properties

- Extensively oil resistant, oil-/chemical resistance see "Technical Informations"
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

## Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2

## Note

- Also available in paired version, see HELUKABEL®-PAAR-TRONIC
- AWG sizes are approximate equivalent values. The actual cross section is in mm<sup>2</sup>.
- Screened analogue type: **TRONIC-CY (LiY-CY)**

## Application

These cables are used for flexible use with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air, wherever the construction requirements call for a minimum outer diameter, TRONIC is the suitable cable to use. This applies especially to such areas as tool making and machine industries as well as electronic, computer, measurement and control sectors.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
18001	2 x 0,14	3,5	2,7	13,0	26
18002	3 x 0,14	3,7	4,0	16,0	26
18003	4 x 0,14	3,9	5,4	19,0	26
18004	5 x 0,14	4,3	6,7	22,0	26
18005	6 x 0,14	4,6	8,1	25,0	26
18006	7 x 0,14	4,6	9,4	28,0	26
18007	8 x 0,14	5,5	10,7	35,0	26
18008	10 x 0,14	5,9	13,4	41,0	26
18009	12 x 0,14	6,1	16,1	48,0	26
18010	14 x 0,14	6,3	18,8	53,0	26
18011	16 x 0,14	6,9	21,5	59,0	26
18012	18 x 0,14	7,2	24,2	65,0	26
18013	20 x 0,14	7,5	26,9	70,0	26
18014	21 x 0,14	7,6	28,2	77,0	26
18015	24 x 0,14	8,5	32,3	87,0	26
18117	25 x 0,14	8,6	33,6	91,0	26
18016	27 x 0,14	8,7	36,3	97,0	26
18017	30 x 0,14	8,9	40,3	108,0	26
18018	32 x 0,14	9,3	43,0	114,0	26
18019	36 x 0,14	9,8	48,4	126,0	26
18020	40 x 0,14	10,4	54,0	139,0	26
18021	42 x 0,14	10,5	56,0	146,0	26
18022	44 x 0,14	11,1	59,0	153,0	26
18023	48 x 0,14	11,2	65,0	164,0	26
18024	52 x 0,14	11,5	70,0	173,0	26
18025	56 x 0,14	11,8	75,0	187,0	26
18026	61 x 0,14	12,1	82,0	204,0	26

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
18029	2 x 0,25	3,8	4,8	18,0	24
18030	3 x 0,25	4,0	7,2	22,0	24
18031	4 x 0,25	4,3	9,6	26,0	24
18032	5 x 0,25	4,7	12,0	30,0	24
18033	6 x 0,25	5,3	14,4	36,0	24
18034	7 x 0,25	5,3	16,8	42,0	24
18035	8 x 0,25	6,1	19,2	49,0	24
18036	10 x 0,25	6,8	24,0	57,0	24
18037	12 x 0,25	7,0	28,8	66,0	24
18038	14 x 0,25	7,3	33,6	75,0	24
18039	16 x 0,25	7,7	38,4	84,0	24
18040	18 x 0,25	8,3	43,2	92,0	24
18114	19 x 0,25	8,3	46,0	84,0	24
18041	20 x 0,25	8,7	48,0	101,0	24
18042	21 x 0,25	8,8	50,0	107,0	24
18043	24 x 0,25	9,8	60,0	120,0	24
18118	25 x 0,25	10,0	61,0	132,0	24
18044	27 x 0,25	10,1	65,0	140,0	24
18045	30 x 0,25	10,3	72,0	156,0	24
18046	32 x 0,25	10,7	77,0	164,0	24
18047	36 x 0,25	11,3	86,0	182,0	24
18115	37 x 0,25	11,3	89,0	190,0	24
18048	40 x 0,25	12,1	96,0	200,0	24
18049	42 x 0,25	12,2	101,0	211,0	24
18050	44 x 0,25	12,8	106,0	225,0	24
18051	48 x 0,25	13,0	115,0	245,0	24
18052	52 x 0,25	13,3	125,0	263,0	24
18053	56 x 0,25	13,9	134,0	280,0	24
18054	61 x 0,25	14,3	146,0	305,0	24

Continuation ►

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Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
18057	2 x 0,34	4,2	6,5	22,0	22
18058	3 x 0,34	4,4	9,8	30,0	22
18059	4 x 0,34	4,8	13,1	43,0	22
18060	5 x 0,34	5,4	16,3	54,0	22
18061	6 x 0,34	5,9	19,6	58,0	22
18062	7 x 0,34	5,9	22,8	61,0	22
18063	8 x 0,34	7,1	26,1	73,0	22
18064	10 x 0,34	7,6	32,6	82,0	22
18065	12 x 0,34	7,8	39,2	102,0	22
18066	14 x 0,34	8,4	45,7	108,0	22
18067	16 x 0,34	8,8	52,0	126,0	22
18068	18 x 0,34	9,3	59,0	143,0	22
18069	20 x 0,34	10,0	65,0	160,0	22
18070	21 x 0,34	10,1	69,0	166,0	22
18071	24 x 0,34	11,2	78,0	186,0	22
18096	25 x 0,34	11,4	82,0	192,0	22
18072	27 x 0,34	11,5	88,0	206,0	22
18073	30 x 0,34	11,8	98,0	226,0	22
18074	32 x 0,34	12,3	104,0	245,0	22
18075	36 x 0,34	12,9	118,0	285,0	22
18116	37 x 0,34	12,9	121,0	292,0	22
18076	40 x 0,34	14,0	131,0	318,0	22
18077	42 x 0,34	14,1	137,0	330,0	22
18078	44 x 0,34	14,6	144,0	370,0	22
18079	48 x 0,34	14,7	157,0	405,0	22
18080	52 x 0,34	15,4	170,0	430,0	22
18081	53 x 0,34	15,8	183,0	440,0	22
18082	61 x 0,34	16,3	199,0	610,0	22

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
18085	2 x 0,5	4,6	9,6	40,0	20
18086	3 x 0,5	4,9	14,4	46,0	20
18087	4 x 0,5	5,5	19,2	55,0	20
18088	5 x 0,5	6,0	24,0	64,0	20
18089	6 x 0,5	6,7	28,8	73,0	20
18090	7 x 0,5	6,7	33,6	81,0	20
18091	8 x 0,5	7,8	38,4	97,0	20
18092	10 x 0,5	8,6	48,0	116,0	20
18093	12 x 0,5	8,7	58,0	135,0	20
18103	16 x 0,5	10,0	77,0	168,0	20
18101	20 x 0,5	11,3	96,0	213,0	20
18094	24 x 0,5	12,7	116,0	241,0	20
18102	30 x 0,5	13,4	144,0	303,0	20
18095	40 x 0,5	15,8	192,0	391,0	20
18104	2 x 0,75	5,3	14,4	47,0	19
18097	3 x 0,75	5,6	21,6	54,0	19
18098	4 x 0,75	6,1	29,0	66,0	19
18099	5 x 0,75	6,9	36,0	80,0	19
18100	7 x 0,75	7,5	50,0	110,0	19
18105	8 x 0,75	8,9	58,0	125,0	19
18106	10 x 0,75	9,2	72,0	148,0	19
18107	12 x 0,75	9,8	86,0	176,0	19
18108	16 x 0,75	11,4	115,0	220,0	19
18109	20 x 0,75	12,7	144,0	276,0	19
18110	2 x 1	5,6	19,2	56,0	18
18111	3 x 1	5,9	29,0	71,0	18
18112	2 x 1,5	6,3	29,0	75,0	16
18113	3 x 1,5	6,8	43,0	90,0	16

Dimensions and specifications may be changed without prior notice. (RB01)