



HELUKABEL TRONIC (LiYY) 10x0,25 QMM / 18036 500 V 001042209

CE



## Technical data

- Special PVC data cables, adapted to DIN VDE 0245, 0812
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  
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
- **Insulation resistance**  
min. 20 MOhm x km
- **Capacitance** (approx.-value) at 800 Hz  
0,14 mm<sup>2</sup> 120 pF/m  
≥0,25 mm<sup>2</sup> 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 construction

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI2, to DIN VDE 0281 part 1
- Conductor make-up for  
0,14 mm<sup>2</sup> = 18x0,1 mm  
0,25 mm<sup>2</sup> = 14x0,15 mm  
0,34 mm<sup>2</sup> = 7x0,25 mm
- Colour coded to DIN 47100, but without colour repetition
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1
- Colour grey (RAL 7001)

## Properties

- Extremely oil resistant.  
Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- HELUKABEL®-TRONIC is also available in paired version (e.g. HELUKABEL®-PAAR-TRONIC 20x2x0,14 mm<sup>2</sup>).

## 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 = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
18001	2 x 0,14	3,2	2,7	13,0	26
18002	3 x 0,14	3,2	4,0	16,0	26
18003	4 x 0,14	3,5	5,4	19,0	26
18004	5 x 0,14	4,0	6,7	22,0	26
18005	6 x 0,14	4,3	8,1	25,0	26
18006	7 x 0,14	4,3	9,4	28,0	26
18007	8 x 0,14	4,6	10,7	31,0	26
18008	10 x 0,14	5,3	13,4	41,0	26
18009	12 x 0,14	5,6	16,1	48,0	26
18010	14 x 0,14	5,9	18,8	53,0	26
18011	16 x 0,14	6,2	21,5	59,0	26
18012	18 x 0,14	6,5	24,2	65,0	26
18013	20 x 0,14	6,5	26,9	70,0	26
18014	21 x 0,14	6,8	28,2	77,0	26
18015	24 x 0,14	7,6	32,3	87,0	26
18117	25 x 0,14	7,6	33,6	91,0	26
18016	27 x 0,14	7,7	36,3	97,0	26
18017	30 x 0,14	8,0	40,3	108,0	26
18018	32 x 0,14	8,2	43,0	114,0	26
18019	36 x 0,14	8,7	48,4	126,0	26
18020	40 x 0,14	9,5	54,0	139,0	26
18021	42 x 0,14	9,8	56,0	146,0	26
18022	44 x 0,14	10,3	59,0	153,0	26
18023	48 x 0,14	10,4	65,0	164,0	26
18024	52 x 0,14	10,7	70,0	173,0	26
18025	56 x 0,14	11,0	75,0	187,0	26
18026	61 x 0,14	11,3	82,0	204,0	26
18027	80 x 0,14	15,5	108,0	280,0	26
18028	100 x 0,14	18,1	135,0	370,0	26

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

Dimensions and specifications may be changed without prior notice.

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