HELUKABEL® TRONIC (LiYY) flexible, colour coded to DIN 47100

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 mm² = 350 V
  ≥ 0,25 mm² = 500 V
- **Test voltage**
  up to 0,25 mm² = 1200 V
- **Insulation resistance**
  min. 200 MOhm x km

conductor cross-section (mm²)	0,14	≥ 0,25
Capacitance (approx.-value) at 800 Hz (pF/m)	120	150

- **Load** (A) According to different cross-sections, see table Technical Information
- **Inductance** approx. 0,65 mH/km
- **Impedance** approx. 78 Ohm
- **Minimum bending radius**
  7,5 x cable ∅
- **Radiation resistance**
  up to 80 x 10^6 cJ/kg (up to 80 Mrad)

Cable structure

- 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
- Colour coded to DIN 47100, but without colour repetition, see page T 46
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1
  sheath colour silver grey RAL 7001
- Extremely oil resistant
  Chemical Resistance – see table Technical Informations
- PVC self-extinguishing and flame retardant, test method B according to DIN VDE 0472 part 804 and IEC 60332-1

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

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.

C

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

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Part No.	No. cores x cross-sec. mm²	Outer ∅ ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
18001	2 x 0,14	3,2	2,7	13	26
18002	3 x 0,14	3,2	4,0	16	26
18003	4 x 0,14	3,5	5,4	19	26
18004	5 x 0,14	4,0	6,7	22	26
18005	6 x 0,14	4,3	8,1	25	26
18006	7 x 0,14	4,3	9,4	28	26
18007	8 x 0,14	4,6	10,7	35	26
18008	10 x 0,14	5,3	13,4	41	26
18009	12 x 0,14	5,6	16,1	48	26
18010	14 x 0,14	5,9	18,8	53	26
18011	16 x 0,14	6,2	21,5	59	26
18012	18 x 0,14	6,5	24,2	65	26
18013	20 x 0,14	6,5	26,9	70	26
18014	21 x 0,14	6,8	28,2	77	26
18015	24 x 0,14	7,6	32,3	87	26
18117	25 x 0,14	7,6	33,3	91	26
18016	27 x 0,14	7,7	36,3	97	26
18017	30 x 0,14	8,0	40,3	108	26
18018	32 x 0,14	8,2	43,0	114	26
18019	36 x 0,14	8,7	48,4	126	26
18020	40 x 0,14	9,5	54,0	139	26
18021	42 x 0,14	9,8	56,0	146	26
18022	44 x 0,14	10,3	59,0	153	26
18023	48 x 0,14	10,4	65,0	164	26
18024	52 x 0,14	10,7	70,0	173	26
18025	56 x 0,14	11,0	75,0	187	26
18026	61 x 0,14	11,3	82,0	204	26
18027	80 x 0,14	15,5	108,0	280	26
18028	100 x 0,14	18,1	135,0	370	26

Part No.	No. cores x cross-sec. mm²	Outer ∅ ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
18029	2 x 0,25	3,8	4,8	18	24
18030	3 x 0,25	3,9	7,2	22	24
18031	4 x 0,25	4,3	9,6	26	24
18032	5 x 0,25	4,8	12,0	30	24
18033	6 x 0,25	5,2	14,4	36	24
18034	7 x 0,25	5,2	16,8	42	24
18035	8 x 0,25	5,7	19,2	49	24
18036	10 x 0,25	6,4	24,0	57	24
18037	12 x 0,25	6,7	28,8	66	24
18038	14 x 0,25	7,1	33,6	75	24
18039	16 x 0,25	7,5	38,4	84	24
18040	18 x 0,25	7,9	43,2	72	24
18114	19 x 0,25	8,4	46,0	84	24
18041	20 x 0,25	9,1	48,0	101	24
18042	21 x 0,25	9,3	50,0	107	24
18043	24 x 0,25	9,8	60,0	120	24
18118	25 x 0,25	9,9	61,0	132	24
18044	27 x 0,25	10,1	65,0	140	24
18045	30 x 0,25	10,3	72,0	156	24
18046	32 x 0,25	10,5	77,0	164	24
18047	36 x 0,25	11,1	86,0	182	24
18115	37 x 0,25	11,3	89,0	190	24
18048	40 x 0,25	11,5	96,0	200	24
18049	42 x 0,25	11,8	101,0	211	24
18050	44 x 0,25	12,6	106,0	225	24
18051	48 x 0,25	12,7	115,0	245	24
18052	52 x 0,25	13,6	125,0	263	24
18053	56 x 0,25	14,0	134,0	280	24
18054	61 x 0,25	14,4	146,0	305	24
18055	80 x 0,25	19,6	192,0	450	24
18056	100 x 0,25	23,1	240,0	590	24

Continuation ▶

***) Note**
AWG sizes are approximate equivalent values.
The actual cross-section is in mm² – see page T 15.

HELUKABEL®-TRONIC is also available in paired version (e.g. HELUKABEL®-PAAR-TRONIC 20 x 2 x 0,14 mm²).
PVC cables will be changed to lead free PVC successively.

Further dimensions available on request.