



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
from 0,34 mm² 2000 V
- **Breakdown voltage**
up to 0,25 mm² 2400 V
from 0,34 mm² 4000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Capacitance** (approx.-value) at 800 Hz
0,14 mm² 120 pF/m
≥0,25 mm² 150 pF/m
- **Inductance** approx. 0,65 mH/km
- **Impedance** approx. 78 Ωm
- **Minimum bending radius**
flexing 7,5x cable Ø
fixed installation 4x cable Ø
- **Radiation resistance**
up to 80x10⁶ 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 mm² = 18x0,1 mm
0,25 mm² = 14x0,15 mm
0,34 mm² = 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 mm².
- HELUKABEL®-TRONIC is also available in paired version (e.g. HELUKABEL®-PAAR-TRONIC 20x2x0,14 mm²).

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.

CEC = 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 ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	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	18029	2 x 0,25	3,8	4,8	18,0	24
18002	3 x 0,14	3,2	4,0	16,0	26	18030	3 x 0,25	3,9	7,2	22,0	24
18003	4 x 0,14	3,5	5,4	19,0	26	18031	4 x 0,25	4,3	9,6	26,0	24
18004	5 x 0,14	4,0	6,7	22,0	26	18032	5 x 0,25	4,8	12,0	30,0	24
18005	6 x 0,14	4,3	8,1	25,0	26	18033	6 x 0,25	5,2	14,4	36,0	24
18006	7 x 0,14	4,3	9,4	28,0	26	18034	7 x 0,25	5,2	16,8	42,0	24
18007	8 x 0,14	4,6	10,7	35,0	26	18035	8 x 0,25	5,7	19,2	49,0	24
18008	10 x 0,14	5,3	13,4	41,0	26	18036	10 x 0,25	6,4	24,0	57,0	24
18009	12 x 0,14	5,6	16,1	48,0	26	18037	12 x 0,25	6,7	28,8	66,0	24
18010	14 x 0,14	5,9	18,8	53,0	26	18038	14 x 0,25	7,1	33,6	75,0	24
18011	16 x 0,14	6,2	21,5	59,0	26	18039	16 x 0,25	7,5	38,4	84,0	24
18012	18 x 0,14	6,5	24,2	65,0	26	18040	18 x 0,25	7,9	43,2	92,0	24
18013	20 x 0,14	6,5	26,9	70,0	26	18114	19 x 0,25	8,4	46,0	84,0	24
18014	21 x 0,14	6,8	28,2	77,0	26	18041	20 x 0,25	9,1	48,0	101,0	24
18015	24 x 0,14	7,6	32,3	87,0	26	18042	21 x 0,25	9,3	50,0	107,0	24
18117	25 x 0,14	7,6	33,6	91,0	26	18043	24 x 0,25	9,8	60,0	120,0	24
18016	27 x 0,14	7,7	36,3	97,0	26	18118	25 x 0,25	9,9	61,0	132,0	24
18017	30 x 0,14	8,0	40,3	108,0	26	18044	27 x 0,25	10,1	65,0	140,0	24
18018	32 x 0,14	8,2	43,0	114,0	26	18045	30 x 0,25	10,3	72,0	156,0	24
18019	36 x 0,14	8,7	48,4	126,0	26	18046	32 x 0,25	10,5	77,0	164,0	24
18020	40 x 0,14	9,5	54,0	139,0	26	18047	36 x 0,25	11,1	86,0	182,0	24
18021	42 x 0,14	9,8	56,0	146,0	26	18115	37 x 0,25	11,3	89,0	190,0	24
18022	44 x 0,14	10,3	59,0	153,0	26	18048	40 x 0,25	11,5	96,0	200,0	24
18023	48 x 0,14	10,4	65,0	164,0	26	18049	42 x 0,25	11,8	101,0	211,0	24
18024	52 x 0,14	10,7	70,0	173,0	26	18050	44 x 0,25	12,6	106,0	225,0	24
18025	56 x 0,14	11,0	75,0	187,0	26	18051	48 x 0,25	12,7	115,0	245,0	24
18026	61 x 0,14	11,3	82,0	204,0	26	18052	52 x 0,25	13,6	125,0	263,0	24
18027	80 x 0,14	15,5	108,0	280,0	26	18053	56 x 0,25	14,0	134,0	280,0	24
18028	100 x 0,14	18,1	135,0	370,0	26						

Dimensions and specifications may be changed without prior notice.

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