



**B**



**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  
 Nominal voltage (not for purposes of high current and power installation)  
 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 MΩm 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 Ωm  
 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, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5  
 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  
 Special PVC core insulation Tl2, to DIN VDE 0281 part 1  
 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)  
 with meter marking, change-over in 2011

**Properties**

Extremely oil resistant, oil-/ chemical Resistance - see table Technical Informations  
 PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ 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>).  
**screened analogue type:**  
 TRONIC-CY (LiY-CY), see page B 9

**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 2006/ 95/ EG.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
	2 x	3,3	2,7	13,0	26
	3 x 0,14	3,5	4,0	16,0	26
	4 x 0,14	3,7	5,4	19,0	26
	5 x 0,14	4,0	6,7	22,0	26
	6 x 0,14	4,3	8,1	25,0	26
	7 x 0,14	4,3	9,4	28,0	26
PLU030001	8 x 0,14	5,1	10,7	35,0	26
	10 x 0,14	5,6	13,4	41,0	26
	12 x 0,14	5,7	16,1	48,0	26
	14 x 0,14	6,0	18,8	53,0	26
	16 x 0,14	6,5	21,5	59,0	26
	18 x 0,14	6,8	24,2	65,0	26
	20 x 0,14	7,1	26,9	70,0	26
	21 x 0,14	7,1	28,2	77,0	26
	24 x 0,14	7,5	32,3	87,0	26
	25 x 0,14	7,7	33,6	91,0	26
	27 x 0,14	7,7	36,3	97,0	26
	30 x 0,14	8,5	40,3	108,0	26
	32 x 0,14	8,8	43,0	114,0	26
	36 x 0,14	9,3	48,4	126,0	26
	40 x 0,14	9,6	54,0	139,0	26
	42 x 0,14	9,9	56,0	146,0	26
	44 x 0,1	10,4	59,0	153,0	26
	48 x 0,14	10,5	65,0	164,0	26
	52 x 0,14	11,0	70,0	173,0	26
	56 x 0,14	11,3	75,0	187,0	26
	61 x 0	11,6	82,0	204,0	26
	80 x 0,14	13,0	108,0	280,0	26
	2 x 0,25	3,8	4,8	18,0	24
	3 x 0,25	3,9	7,2	22,0	24
	4 x 0,25	4,3	9,6	26,0	24
	5 x 0,25	4,7	12,0	30,0	24
	6 x 0,25	5,3	14,4	36,0	24
	7 x 0,25	5,3	16,8	42,0	24
	8 x 0,25	5,7	19,2	49,0	24
	10 x 0,25	6,6	24,0	57,0	24
	12 x 0,25	6,8	28,8	66,0	24
	14 x 0,25	7,2	33,6	75,0	24
	16 x 0,25	7,6	38,4	84,0	24
	18 x 0,25	8,1	43,2	92,0	24
	19 x 0,25	8,1	46,0	98,0	24
	20 x 0,25	8,6	48,0	101,0	24
	21 x 0,2	8,6	50,0	107,0	24
	24 x 0,25	9,4	60,0	120,0	24
	25 x 0,25	9,5	61,0	132,0	24
	27 x 0,25	9,5	65,0	140,0	24
	30 x 0,25	10,3	72,0	156,0	24
	32 x 0,25	10,9	77,0	164,0	24
	36 x 0,25	11,3	86,0	182,0	24
	37 x 0,25	11,3	89,0	190,0	24
	40 x 0,25	11,6	96,0	200,0	24
	42 x 0,25	12,0	101,0	211,0	24
	44 x	12,6	106,0	225,0	24
	48 x 0,25	12,7	115,0	245,0	24
	52 x 0,25	13,3	125,0	,0	
	56 x 0,25	13,9	134,0	280,0	24

Continuation