



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

CE



## 기술사항

- 데이터용 케이블, 특수 PVC  
DIN VDE 0245, 0812 규격
- 온도 범위  
이송시 -5°C ~ +80°C  
고정 설치시 -40°C ~ +80°C
- 정격전압 0.14mm<sup>2</sup> = 350V  
≥0.25mm<sup>2</sup> = 500V
- 시험 전압  
0.25mm<sup>2</sup> 이상 = 1200V  
0.34mm<sup>2</sup> 이상 = 2000V
- 절연파괴전압  
0.25mm<sup>2</sup> 이상 = 2400V  
0.34mm<sup>2</sup> 이상 = 2000V
- 절연저항  
최소 20M ohm/km 이상  
도체 단면적 (mm<sup>2</sup>)  
0.14 ≥ 0.25
- 정전용량(근사값)  
800MHz(pF/m)에서 120 150
- 인덕턴스 약 0.65 mH/km
- 임피던스 약 78 Ohm
- 최소 곡률 반경  
고정설치시 4 x cable ø  
이송시 7.5 x cable ø
- 내 방사선 성능  
up to 80 x 10<sup>6</sup> cJ/Kg(up to 80Mrad)

## 케이블 구조

- 미세나동 집합연선 도체, DIN VDE 0295 cl5 및 IEC 60228 cl5 규격
- 특수 PVC 코어 절연체  
T2, DIN VDE 0281 part1 규격  
도체구성  
0.14mm<sup>2</sup> = 18×0.1mm  
0.25mm<sup>2</sup> = 14×0.15mm  
0.34mm<sup>2</sup> = 7×0.25mm
- 색상분류 코드, DIN 47100 규격
- 중복 색상 없음(부록참조)
- 최적 피치의 층적 연선 코어
- 포일 분리
- 특수 PVC 외부 슈스, 회색  
TM2, DIN VDE 0281 part1 규격,
- 넓은 범위의 오일 저항성  
Technical Information table 참조

## 특징

- 자체 소화성 및 난연성 PVC, DIN VDE 0482 part 265-2-1/EN 50265-2-1/ IEC 60332-1(DIN VDE 0472 part 804 및 IEC 60332 -1 검사방법 B)
- 사용 재질은 카드뮴, 실리콘등이 없는 무독성 소재로 락커의 습윤(濕潤)특성을 저해하는 물질 없음

## 용도

- 본 케이블은 건습한 환경의 실내에서, 인장력이나 외력에 의해 움직이지 않는 free movement의 경우에 다용도로 쓸 수 있음.
- 야외용으로는 부적합. TRONIC는 최소 외경을 필요로 하는 곳에 적합한 케이블임. 전자, 컴퓨터, 측정 및 제어 분야의 공작기계류와 기계산업 등에 적합함.
- 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 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	35,0	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

# TRONIC (LiYY) flexible, colour coded to DIN 47100, meter marking



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.	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.
18054	61 x 0,25	14,4	146,0	305,0	24	18085	2 x 0,5	4,8	9,6	40,0	20
18055	80 x 0,25	19,6	192,0	450,0	24	18086	3 x 0,5	5,1	14,4	46,0	20
18056	100 x 0,25	23,1	240,0	590,0	24	18087	4 x 0,5	5,7	19,2	55,0	20
18057	2 x 0,34	4,2	6,5	22,0	22	18088	5 x 0,5	6,2	24,0	64,0	20
18058	3 x 0,34	4,4	9,8	30,0	22	18089	6 x 0,5	6,7	28,8	73,0	20
18059	4 x 0,34	4,9	13,1	43,0	22	18090	7 x 0,5	7,4	33,6	81,0	20
18060	5 x 0,34	5,3	16,3	54,0	22	18091	8 x 0,5	8,0	38,4	97,0	20
18061	6 x 0,34	5,8	19,6	58,0	22	18092	10 x 0,5	8,8	48,0	116,0	20
18062	7 x 0,34	5,9	22,8	61,0	22	18093	12 x 0,5	9,1	58,0	135,0	20
18063	8 x 0,34	6,3	26,1	73,0	22	18103	16 x 0,5	10,0	77,0	168,0	20
18064	10 x 0,34	7,2	32,6	82,0	22	18101	20 x 0,5	11,2	96,0	213,0	20
18065	12 x 0,34	7,6	39,2	102,0	22	18094	24 x 0,5	12,3	116,0	241,0	20
18066	14 x 0,34	8,0	45,7	108,0	22	18102	30 x 0,5	13,5	144,0	303,0	20
18067	16 x 0,34	8,4	52,0	126,0	22	18095	40 x 0,5	15,8	192,0	391,0	20
18068	18 x 0,34	8,9	59,0	143,0	22	18104	2 x 0,75	5,2	14,4	47,0	18
18069	20 x 0,34	9,8	65,0	160,0	22	18097	3 x 0,75	5,5	21,6	54,0	18
18070	21 x 0,34	9,8	69,0	166,0	22	18098	4 x 0,75	6,2	29,0	66,0	18
18071	24 x 0,34	11,0	78,0	186,0	22	18099	5 x 0,75	6,8	36,0	80,0	18
18096	25 x 0,34	11,2	82,0	192,0	22	18100	7 x 0,75	8,1	50,0	110,0	18
18072	27 x 0,34	11,2	88,0	206,0	22	18105	8 x 0,75	8,9	58,0	125,0	18
18073	30 x 0,34	11,6	98,0	226,0	22	18106	10 x 0,75	9,6	72,0	148,0	18
18074	32 x 0,34	11,9	104,0	245,0	22	18107	12 x 0,75	9,9	86,0	176,0	18
18075	36 x 0,34	12,6	118,0	285,0	22	18108	16 x 0,75	11,6	115,0	220,0	18
18116	37 x 0,34	12,9	121,0	292,0	22	18109	20 x 0,75	12,6	144,0	276,0	18
18076	40 x 0,34	13,5	131,0	318,0	22	18110	2 x 1	5,5	19,2	56,0	17
18077	42 x 0,34	14,0	137,0	330,0	22	18111	3 x 1	6,0	29,0	71,0	17
18078	44 x 0,34	14,7	144,0	370,0	22	18112	2 x 1,5	6,5	29,0	75,0	16
18079	48 x 0,34	14,9	157,0	405,0	22	18113	3 x 1,5	6,9	43,0	90,0	16
18080	52 x 0,34	15,3	170,0	450,0	22						
18081	53 x 0,34	15,5	183,0	440,0	22						
18082	61 x 0,34	16,2	199,0	610,0	22						
18083	80 x 0,34	22,0	264,0	880,0	22						
18084	100 x 0,34	25,4	327,0	1050,0	22						

Dimensions and specifications may be changed without prior notice.



Standardised process control and visualisation of an extrusion system at our Windsbach factory.