

# TRONIC-CY (LiY-CY) flexible, Cu-screened, colour coded to DIN 47100, EMC-preferred type, meter marking



B



## 기술사항

- 데이터 실드용 케이블, 특수 PVC  
DIN VDE 0245, 0812 규격
- 온도범위  
이송시 -5°C ~ +80°C  
고정 설치시 -40°C ~ +80°C
- 정격전압 0.14mm<sup>2</sup> = 350V  
≥0.25mm<sup>2</sup> = 500V
- 절연파괴전압 min 2400V
- 시험 전압  
core/core = 1200V  
core/screen = 800V
- 절연저항 최소 20M ohm/km 이상  
도체 단면적  
(mm<sup>2</sup>) 0.14 ≥ 0.25
- 정전용량(근사값)  
800MHz(pF/m)에서  
core/core 120 150  
core/screen 240 270
- 부하(A) 1.5 2.5
- 인덕턴스 약 0.65 mH/km
- 임피던스 약 78 Ohm
- 결합저항 최대 250 Ohm/km 이하
- 최소 곡률 반경  
고정설치시 5 x cable ø  
이송시 10 x cable ø
- 내 방사선 성능  
up to 80 x 10<sup>6</sup> cJ/Kg(up to 80Mrad)

## 케이블 구조

- 미세나동연선 도체  
0.5mm<sup>2</sup> 이상 : DIN VDE 0295 cl5, IEC 60228 cl5 규격  
도체 구성  
0.14mm<sup>2</sup> = 18 x 0.1mm  
0.25mm<sup>2</sup> = 14 x 0.15mm  
0.34mm<sup>2</sup> = 7 x 0.25mm
- 특수 PVC 코어 절연체  
T2, DIN VDE 0281 part1 규격
- 최적 피치의 층적 연선 코어
- 색상분류 코드, DIN 47100 규격
- 중복 색상 없음(부록참조)
- 코어 포일 랩
- 주석도금 드레인와이어
- 주석도금 구리 편조 실드, 실드율 85%
- 특수 PVC 외부 슈스, 회색(RAL 7001)  
TM2, DIN VDE 0207 part1 규격,

## 특징

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

## 용도

- 본 실드 케이블은 건습한 환경의 실내에서, 인장력이나 외력에 의해 움직이지 않는 이동부위의 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.
- 미세 외경은 미니 프러그 등에 적합함. 고도의 실드율로 신호와 펄스의 무간섭 전송을 보장함.
- EMC = 전자기 간섭 차단성  
주의 : EMC의 특성을 극대화하기 위해 양 끝단에서 구리 실드선을 한바퀴 넓게 감아서 접속할 것.
- 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.	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.
20139	1 x 0,14	2,2	6,1	16,0	26	20015	24 x 0,14	8,0	62,0	131,0	26
20001	2 x 0,14	3,7	12,0	20,0	26	20091	25 x 0,14	8,1	61,0	136,0	26
20002	3 x 0,14	3,8	13,0	27,0	26	20016	27 x 0,14	8,6	65,0	142,0	26
20003	4 x 0,14	4,1	14,5	32,0	26	20017	30 x 0,14	8,9	69,0	157,0	26
20004	5 x 0,14	4,6	15,5	37,0	26	20018	32 x 0,14	9,1	76,0	163,0	26
20005	6 x 0,14	4,9	18,2	42,0	26	20019	36 x 0,14	9,7	83,0	182,0	26
20006	7 x 0,14	4,9	19,0	48,0	26	20020	40 x 0,14	10,2	88,0	209,0	26
20007	8 x 0,14	5,3	21,3	55,0	26	20021	42 x 0,14	10,7	94,0	217,0	26
20008	10 x 0,14	6,0	28,7	65,0	26	20022	44 x 0,14	11,1	110,0	226,0	26
20009	12 x 0,14	6,2	30,5	77,0	26	20023	48 x 0,14	11,1	115,0	240,0	26
20010	14 x 0,14	6,6	32,0	79,0	26	20024	52 x 0,14	11,4	124,0	270,0	26
20011	16 x 0,14	6,9	43,2	89,0	26	20025	56 x 0,14	11,8	132,0	320,0	26
20012	18 x 0,14	7,1	51,0	103,0	26	20026	61 x 0,14	12,2	146,0	370,0	26
20013	20 x 0,14	7,6	55,0	116,0	26	20027	80 x 0,14	19,0	226,0	510,0	26
20014	21 x 0,14	7,6	56,0	120,0	26	20028	100 x 0,14	23,0	267,0	580,0	26

Dimensions and specifications may be changed without prior notice.

Continuation ▶

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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.
20084	1 x 0,25	2,9	7,2	27,0	24
20029	2 x 0,25	4,3	15,8	31,0	24
20030	3 x 0,25	4,5	18,6	36,0	24
20031	4 x 0,25	4,9	22,0	40,0	24
20032	5 x 0,25	5,3	26,5	51,0	24
20083	6 x 0,25	5,8	32,4	58,0	24
20033	7 x 0,25	5,9	35,0	64,0	24
20034	8 x 0,25	6,3	42,1	82,0	24
20035	10 x 0,25	7,0	49,9	85,0	24
20036	12 x 0,25	7,3	58,0	90,0	24
20037	14 x 0,25	7,8	62,0	144,0	24
20038	16 x 0,25	8,2	67,0	110,0	24
20039	18 x 0,25	8,6	78,0	142,0	24
20086	19 x 0,25	8,7	79,0	146,0	24
20040	20 x 0,25	9,1	88,0	152,0	24
20041	21 x 0,25	9,1	91,0	150,0	24
20042	24 x 0,25	10,2	96,0	163,0	24
20092	25 x 0,25	10,3	99,0	169,0	24
20043	27 x 0,25	10,5	122,0	176,0	24
20044	30 x 0,25	10,8	132,0	189,0	24
20045	32 x 0,25	11,0	138,0	204,0	24
20046	36 x 0,25	11,7	146,0	219,0	24
20087	37 x 0,25	11,7	152,0	230,0	24
20047	40 x 0,25	12,1	157,0	247,0	24
20048	42 x 0,25	12,7	160,0	269,0	24
20049	44 x 0,25	13,1	164,0	292,0	24
20050	48 x 0,25	13,3	164,0	317,0	24
20051	52 x 0,25	14,0	175,0	330,0	24
20052	56 x 0,25	14,4	189,0	343,0	24
20053	61 x 0,25	14,8	204,0	365,0	24
20054	80 x 0,25	25,5	387,0	480,0	24
20055	100 x 0,25	28,0	505,0	605,0	24
20088	1 x 0,34	3,2	13,5	24,0	22
20056	2 x 0,34	4,8	18,0	30,0	22
20057	3 x 0,34	5,1	22,0	37,0	22
20058	4 x 0,34	5,6	28,0	48,0	22
20059	5 x 0,34	6,0	31,0	54,0	22
20085	6 x 0,34	6,5	45,0	61,0	22
20060	7 x 0,34	6,6	51,0	67,0	22
20061	8 x 0,34	7,1	54,0	81,0	22
20062	10 x 0,34	8,0	65,0	103,0	22
20063	12 x 0,34	8,4	70,0	110,0	22
20064	14 x 0,34	8,9	81,0	153,0	22
20065	16 x 0,34	9,4	88,0	159,0	22
20066	18 x 0,34	9,9	103,0	172,0	22
20089	19 x 0,34	10,1	106,0	181,0	22
20067	20 x 0,34	10,8	112,0	191,0	22
20068	21 x 0,34	10,8	116,0	199,0	22
20069	24 x 0,34	11,6	129,0	229,0	22
20093	25 x 0,34	11,6	120,0	241,0	22
20070	27 x 0,34	12,2	138,0	258,0	22
20071	30 x 0,34	12,6	158,0	290,0	22
20072	32 x 0,34	12,9	163,0	305,0	22
20073	36 x 0,34	13,6	178,0	330,0	22
20090	37 x 0,34	13,8	192,0	348,0	22
20074	40 x 0,34	14,4	198,0	364,0	22
20075	42 x 0,34	15,1	203,0	389,0	22
20076	44 x 0,34	15,5	214,0	414,0	22
20077	48 x 0,34	15,8	227,0	420,0	22
20078	52 x 0,34	16,2	242,0	450,0	22
20079	56 x 0,34	16,6	267,0	480,0	22
20080	61 x 0,34	17,1	295,0	520,0	22
20081	80 x 0,34	25,6	524,0	580,0	22
20082	100 x 0,34	28,5	620,0	694,0	22

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.
16001	1 x 0,5	3,4	15,0	40,0	20
16002	2 x 0,5	5,4	29,0	45,0	20
16003	3 x 0,5	5,8	39,0	55,0	20
16004	4 x 0,5	6,4	46,0	61,0	20
16005	5 x 0,5	6,8	52,0	76,0	20
16006	6 x 0,5	7,4	66,0	89,0	20
16007	7 x 0,5	7,6	68,0	98,0	20
16008	8 x 0,5	8,3	80,0	117,0	20
16009	10 x 0,5	9,4	95,0	135,0	20
16010	12 x 0,5	9,7	117,0	157,0	20
16011	14 x 0,5	10,4	122,0	190,0	20
16012	16 x 0,5	11,1	129,0	210,0	20
16013	18 x 0,5	11,6	152,0	217,0	20
16526	19 x 0,5	11,7	156,0	246,0	20
16014	20 x 0,5	12,6	173,0	275,0	20
16015	24 x 0,5	13,7	236,0	337,0	20
16016	25 x 0,5	13,9	250,0	351,0	20
16527	27 x 0,5	14,0	265,0	373,0	20
16017	30 x 0,5	14,6	297,0	396,0	20
16018	32 x 0,5	15,0	301,0	431,0	20
16164	34 x 0,5	15,4	312,0	440,0	20
16019	36 x 0,5	15,7	320,0	445,0	20
16528	37 x 0,5	16,1	325,0	458,0	20
16020	40 x 0,5	16,5	345,0	470,0	20
16021	50 x 0,5	18,4	407,0	570,0	20
16022	61 x 0,5	19,4	580,0	650,0	20
16023	80 x 0,5	23,0	690,0	780,0	20
16024	100 x 0,5	25,9	814,0	990,0	20
16025	1 x 0,75	3,8	19,0	41,0	18
16026	2 x 0,75	6,2	38,0	59,0	18
16027	3 x 0,75	6,4	50,0	66,0	18
16028	4 x 0,75	7,0	57,0	77,0	18
16029	5 x 0,75	7,6	70,0	93,0	18
16030	6 x 0,75	8,3	87,0	113,0	18
16031	7 x 0,75	8,5	96,0	130,0	18
16032	8 x 0,75	9,2	110,0	145,0	18
16033	10 x 0,75	10,5	140,0	180,0	18
16034	12 x 0,75	10,9	151,0	202,0	18
16035	14 x 0,75	11,6	167,0	225,0	18
16036	16 x 0,75	12,3	183,0	275,0	18
16037	18 x 0,75	13,0	207,0	292,0	18
16529	19 x 0,75	13,2	221,0	322,0	18
16038	20 x 0,75	14,0	238,0	362,0	18
16039	24 x 0,75	15,5	270,0	435,0	18
16040	25 x 0,75	15,5	278,0	415,0	18
16041	27 x 0,75	16,2	287,0	467,0	18
16042	30 x 0,75	16,8	315,0	486,0	18
16043	32 x 0,75	17,1	330,0	530,0	18
16163	34 x 0,75	17,5	350,0	570,0	18
16044	36 x 0,75	17,8	370,0	600,0	18
16530	37 x 0,75	18,2	386,0	640,0	18
16045	40 x 0,75	20,9	480,0	680,0	18
16120	42 x 0,75	19,7	408,0	714,0	18
16047	61 x 0,75	22,9	555,0	900,0	18
16048	80 x 0,75	27,4	715,0	1200,0	18
16049	100 x 0,75	31,2	910,0	1440,0	18
16475	2 x 1	6,5	46,0	65,0	17
16476	3 x 1	6,9	56,0	80,0	17
16477	4 x 1	7,5	69,0	98,0	17
16478	5 x 1	8,3	89,0	127,0	17
16479	6 x 1	8,9	105,0	144,0	17
16480	7 x 1	9,0	111,0	158,0	17
16481	8 x 1	10,2	130,0	197,0	17
16482	10 x 1	11,4	140,0	232,0	17
16483	12 x 1	11,7	168,0	260,0	17
16484	14 x 1	12,7	198,0	302,0	17
16485	16 x 1	13,4	218,0	346,0	17
16486	19 x 1	13,9	268,0	412,0	17
16487	24 x 1	16,5	320,0	493,0	17
16488	27 x 1	16,8	360,0	562,0	17
16489	37 x 1	18,8	485,0	790,0	17
16500	2 x 1,5	7,5	63,0	88,0	16
16501	3 x 1,5	8,0	76,0	100,0	16
16502	4 x 1,5	8,7	98,0	126,0	16
16503	5 x 1,5	9,6	116,0	160,0	16
16504	6 x 1,5	10,6	140,0	192,0	16
16505	7 x 1,5	10,7	152,0	208,0	16
16506	8 x 1,5	11,7	172,0	244,0	16
16507	10 x 1,5	13,5	193,0	315,0	16
16508	12 x 1,5	14,0	254,0	338,0	16
16509	14 x 1,5	15,0	272,0	383,0	16
16510	16 x 1,5	15,7	285,0	424,0	16
16511	19 x 1,5	17,1	387,0	506,0	16
16512	24 x 1,5	19,5	448,0	690,0	16
16513	27 x 1,5	19,8	506,0	781,0	16
16514	37 x 1,5	23,6	682,0	941,0	16

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