

HELUTHERM® 145 MULTI flexible, electron beam cross-linked, halogen-free meter marking



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기술 사양

- 고 내열성 할로겐 불포함 연결용 케이블
- 온도범위
이송시 -35°C ~ +120°C
고정설치시 -55°C ~ +145°C
(짧은 회로(Short Circuit) +250°C)
- 정격전압
Uo/U 450/ 750V(0.75mm² 이하)
Uo/U 600/ 1000V(1mm² 이상)
- 시험전압 3,500V
- 최소 곡률 반경
고정설치시 4 × cable ø
-30°C 작동시 12 × cable ø
+60°C 작동시 8 × cable ø
- Caloric Load Values
-Technical Information table 참조
- Power ratings table
-Technical Information table 참조

케이블 구조

- 주석도금 구리선, DIN VDE 0295 cl.5 BS 6360 cl.5 및 IEC 60228 cl.5 규격
- 코아 절연체, polyolefin 혼성 중합체, 전자빔 교차 결합용
- 코아 DIN VDE 0293-308 규격 및 6코아 번호 코드
- 3코아 이상은 황녹색 접지선 포함
- 2코아는 갈색, 청색
- 코아 최적피치는 적용 연선
- polyolefin 혼성 중합체, 전자빔 교차 결합용, 할로겐 불포함 외피
- 색상은 흑색
- 2코아는 황-녹색 접지선 불포함
- 각기 다른 절연 및 외피 색상선택 가능

특징

- 검사
발화검사 DIN VDE 0482 part 266-2/HD 405.3, BS 4066 part 3/EN 50266-2/IEC 60332-3(DIN VDE 0472 part 804 test method C와 유사)
연소가스 부식성 DIN VDE 0482 part 267/EN 50266-2/IEC 60332-3(DIN VDE 0472 part 804 test method C와 유사)
할로겐 불포함 DIN VDE 0482 part 267/EN 50267-2-1/IEC 60754-1(DIN VDE 0472 part 815와 유사)
연기농도 VDE 0482 part 268-1 and 2, test method C, IEC 61034-1/61034-2, HD 606 and BS 7622 part 1 and 2(DIN VDE 0472 part 816)
- 제조공정에 사용한 재료는 카드뮴, 실리콘등을 함유하지 않은 소재로 락커의 습윤(濕潤) 특성을 저해하는 물질 없음

용도

- 본 할로겐 불포함 전자빔 교차 결합용 케이블은 장비, 설비, 기계의 조명설비, 전열기, 전자기기(B급온도), 스위치 시스템, 배전기 등에 적합하며, 석회 내 외부 설치, 덕 밀폐 설치뿐만 아니라 교통신호 시스템 및 옥외 용도에 적합함. 본 케이블은 온도, 습도, 오존 및 직사광선에 내구성이 강하여 신호 제어 시스템 및 다양한 외부 환경에서 사용됨. 화재 시 부식 가스가 연소시 할로겐 불포함 케이블에서 배출되기 때문에 연기로 인한 위험이 적음. 화재 시 caloric load value가 상대적으로 낮기 때문에 독가스 위험이 적어서 피난 및 인명피해를 줄이는 데 효율적임. 화재로 인한 금전상 손실 및 제어 시스템과 빌딩·공장의 콘크리트나 철강구조의 피해를 줄일 수 있음. 인명피해 및 재산피해를 줄여줌. 보다 낮은 교차 결합용 도체는 high thermal load로 특정 상황에서 사용 가능하며 공간 및 무게를 조절해줌. 본 케이블은 안전 엔지니어링 및 환경보호에 큰 도움이 됨.
- CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EG

Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
53376	1 x 0,25	2,8	2,4	11,4	24	53383	8 G 0,25	7,3	19,2	71,0	24
53377	2 x 0,25	4,6	4,8	28,7	24	53384	10 G 0,25	8,1	24,0	84,0	24
53378	3 G 0,25	4,9	7,2	33,7	24	53385	12 G 0,25	8,1	28,8	90,0	24
53379	4 G 0,25	5,5	9,6	41,8	24	53386	14 G 0,25	8,6	33,6	102,0	24
53380	5 G 0,25	5,8	12,0	47,0	24	53387	16 G 0,25	8,9	38,4	114,0	24
53381	6 G 0,25	6,5	14,4	58,0	24	53388	19 G 0,25	10,1	45,6	132,0	24
53382	7 G 0,25	6,9	16,8	64,0	24	53389	21 G 0,25	10,5	50,4	145,0	24

Dimensions and specifications may be changed without prior notice.

Continuation ▶

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Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
53391	1 x 0,5	3,2	4,8	15,7	20
53392	2 x 0,5	5,3	9,6	39,6	20
53393	3 G 0,5	5,7	14,4	48,1	20
53394	4 G 0,5	6,2	19,2	51,0	20
53395	5 G 0,5	7,0	24,0	64,0	20
53396	6 G 0,5	7,4	28,8	74,0	20
53397	7 G 0,5	8,1	33,6	88,0	20
53398	8 G 0,5	9,0	38,4	102,0	20
53399	10 G 0,5	10,0	48,0	123,0	20
53400	12 G 0,5	10,0	57,6	135,0	20
53401	14 G 0,5	10,5	67,2	153,0	20
53402	16 G 0,5	11,3	76,8	176,0	20
53403	19 G 0,5	12,4	91,2	213,0	20
53404	21 G 0,5	13,0	100,8	234,0	20
53405	24 G 0,5	14,0	115,2	263,0	20
53406	25 G 0,5	14,0	120,0	269,0	20
53407	27 G 0,5	14,0	129,6	280,0	20
53408	30 G 0,5	14,6	144,0	311,0	20
53409	33 G 0,5	15,4	158,4	343,0	20
53410	37 G 0,5	16,5	177,6	392,0	20
53411	1 x 0,75	3,5	7,2	19,8	18
53412	2 x 0,75	6,0	14,4	40,0	18
53413	3 G 0,75	6,4	21,6	53,0	18
53414	4 G 0,75	7,0	28,8	69,0	18
53415	5 G 0,75	7,9	36,0	86,0	18
53416	6 G 0,75	8,5	43,2	101,0	18
53417	7 G 0,75	9,1	50,4	117,0	18
53418	8 G 0,75	10,3	57,6	140,0	18
53419	10 G 0,75	11,4	72,0	167,0	18
53420	12 G 0,75	11,4	86,4	183,0	18
53421	14 G 0,75	12,1	100,8	212,0	18
53422	16 G 0,75	12,8	115,2	239,0	18
53423	19 G 0,75	14,1	136,8	290,0	18
53424	21 G 0,75	14,9	151,2	323,0	18
53425	24 G 0,75	16,1	172,8	364,0	18
53426	25 G 0,75	16,1	180,0	371,0	18
53427	27 G 0,75	16,1	194,4	387,0	18
53428	30 G 0,75	16,8	216,0	429,0	18
53429	33 G 0,75	17,5	237,6	468,0	18
53430	37 G 0,75	19,1	266,4	550,0	18
53431	1 x 1	3,9	9,6	25,2	17
53432	2 x 1	6,6	19,2	50,0	17
53433	3 G 1	7,0	28,8	66,0	17
53434	4 G 1	7,7	38,4	86,0	17
53435	5 G 1	8,4	48,0	106,0	17
53436	6 G 1	9,2	57,6	127,0	17
53437	7 G 1	10,2	67,2	155,0	17
53438	8 G 1	11,3	76,8	187,0	17
53439	10 G 1	12,5	96,0	214,0	17
53440	12 G 1	12,5	115,2	230,0	17
53441	14 G 1	13,2	134,4	266,0	17
53442	16 G 1	13,9	153,6	301,0	17
53443	19 G 1	15,7	182,4	377,0	17
53444	21 G 1	16,5	201,6	419,0	17
53445	24 G 1	17,7	230,4	464,0	17
53446	25 G 1	17,7	240,0	472,0	17
53447	27 G 1	17,7	259,2	488,0	17
53448	30 G 1	18,3	288,0	536,0	17
53449	33 G 1	19,4	316,8	605,0	17
53450	37 G 1	21,2	355,2	690,0	17
53451	1 x 1,5	4,3	14,4	32,3	16
53452	2 x 1,5	7,8	28,8	69,0	16
53453	3 G 1,5	8,3	43,2	93,0	16
53454	4 G 1,5	9,1	57,6	120,0	16
53455	5 G 1,5	10,1	72,0	152,0	16
53456	6 G 1,5	11,2	86,4	187,0	16
53457	7 G 1,5	12,1	100,8	222,0	16
53458	8 G 1,5	13,5	115,2	263,0	16
53459	10 G 1,5	15,0	144,0	308,0	16
53460	12 G 1,5	15,0	172,8	330,0	16
53461	14 G 1,5	15,9	201,6	383,0	16
53462	16 G 1,5	16,8	230,4	438,0	16
53463	19 G 1,5	19,0	273,6	554,0	16
53464	21 G 1,5	20,0	302,4	614,0	16
53465	24 G 1,5	21,7	345,6	791,0	16
53466	25 G 1,5	21,7	360,0	701,0	16
53467	27 G 1,5	21,7	388,8	723,0	16
53468	30 G 1,5	22,5	432,0	796,0	16
53469	33 G 1,5	23,5	475,2	880,0	16
53470	37 G 1,5	25,5	532,8	1026,0	16

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
53471	1 x 2,5	5,0	24,0	46,9	14
53472	2 x 2,5	9,1	48,0	99,0	14
53473	3 G 2,5	9,9	72,0	140,0	14
53474	4 G 2,5	10,9	96,0	183,0	14
53475	5 G 2,5	12,2	120,0	231,0	14
53476	6 G 2,5	13,3	144,0	280,0	14
53477	7 G 2,5	14,6	168,0	336,0	14
53478	8 G 2,5	16,2	192,0	397,0	14
53479	10 G 2,5	17,9	240,0	460,0	14
53480	12 G 2,5	17,9	288,0	500,0	14
53481	14 G 2,5	19,2	336,0	593,0	14
53482	16 G 2,5	20,4	384,0	675,0	14
53483	19 G 2,5	22,8	456,0	835,0	14
53484	21 G 2,5	24,2	504,0	939,0	14
53485	24 G 2,5	26,1	576,0	1047,0	14
53486	25 G 2,5	26,1	600,0	1067,0	14
53487	27 G 2,5	26,1	648,0	1107,0	14
53488	30 G 2,5	27,0	720,0	1219,0	14
53489	33 G 2,5	28,4	792,0	1349,0	14
53490	37 G 2,5	30,8	888,0	1565,0	14
53491	1 x 4	5,6	38,4	96,0	12
53492	2 x 4	10,7	76,8	159,0	12
53493	3 G 4	11,5	115,2	197,0	12
53494	4 G 4	12,8	153,6	260,0	12
53495	5 G 4	14,2	192,0	329,0	12
53496	6 G 4	15,4	230,4	398,0	12
53497	7 G 4	17,0	268,8	478,0	12
53498	8 G 4	18,2	307,2	553,0	12
53499	10 G 4	20,6	384,0	663,0	12
53500	12 G 4	20,6	460,8	725,0	12
53501	14 G 4	21,0	537,6	797,0	12
53502	1 x 6	6,2	57,6	88,0	10
53503	2 x 6	12,1	115,2	216,0	10
53504	3 G 6	12,9	172,8	285,0	10
53505	4 G 6	14,4	230,4	375,0	10
53506	5 G 6	15,8	288,0	465,0	10
53507	6 G 6	17,4	345,6	544,0	10
53508	7 G 6	19,4	403,2	664,0	10
53509	1 x 10	7,9	96,0	144,0	8
53510	2 x 10	15,4	192,0	351,0	8
53511	3 G 10	16,5	288,0	475,0	8
53512	4 G 10	18,6	384,0	630,0	8
53513	5 G 10	20,4	480,0	782,0	8
53514	6 G 10	22,6	576,0	914,0	8
53515	7 G 10	24,7	672,0	1092,0	8
53516	1 x 16	8,9	153,6	205,0	6
53517	2 x 16	17,5	307,2	495,0	6
53518	3 G 16	19,1	460,8	691,0	6
53519	4 G 16	21,2	614,4	905,0	6
53520	5 G 16	23,6	768,0	1129,0	6
53521	6 G 16	25,9	921,6	1327,0	6
53522	7 G 16	28,6	1075,2	1590,0	6
53523	1 x 25	11,5	240,0	336,0	4
53524	2 x 25	22,7	480,0	833,0	4
53525	3 G 25	24,4	720,0	1139,0	4
53526	4 G 25	27,3	960,0	1489,0	4
53527	5 G 25	30,4	1200,0	1863,0	4
53528	6 G 25	33,6	1440,0	2275,0	4
53529	7 G 25	37,0	1680,0	2633,0	4
53530	1 x 35	12,8	336,0	454,0	2
53531	2 x 35	25,1	672,0	1104,0	2
53532	3 G 35	27,0	1008,0	1513,0	2
53533	4 G 35	30,2	1344,0	1992,0	2
53534	5 G 35	33,4	1680,0	2488,0	2
53535	1 x 50	15,3	480,0	638,0	1
53536	2 x 50	30,3	960,0	1573,0	1
53537	3 G 50	32,5	1440,0	2154,0	1
53538	4 G 50	36,6	1920,0	2819,0	1
53539	5 G 50	40,3	2400,0	3505,0	1
53540	1 x 70	17,4	672,0	875,0	2/0
53541	2 x 70	34,7	1344,0	2157,0	2/0
53542	3 G 70	37,2	2016,0	2946,0	2/0
53543	4 G 70	41,8	2688,0	3888,0	2/0
53544	5 G 70	46,6	3360,0	4864,0	2/0
53545	1 x 95	20,1	912,0	1149,0	3/0
53546	2 x 95	39,5	1824,0	2763,0	3/0
53547	3 G 95	42,6	2736,0	3833,0	3/0
53548	4 G 95	47,7	3648,0	5052,0	3/0
53549	5 G 95	52,9	4560,0	6307,0	3/0

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