

# MULTIFLEX 512®-PUR special cable for drag chains, halogen-free, meter marking



C



## 기술사항

- 특수 트랙 체인용 케이블  
DIN VDE 0282 part 1, part 10 규격
- 온도범위  
이송시 -40°C ~ 80°C  
고정 설치시 -50°C ~ 80°C
- 정격전압 U<sub>0</sub>/U 300/500V
- 시험 전압 3,000V
- 절연저항  
최소 100 MOhm x km
- 최소 곡률 반경  
이송시 5 x cable ø  
고정설치시 3 x cable ø
- 반복 곡률시험  
약 1천만회 시험
- 내 방사선 성능  
up to 50 x 10<sup>6</sup> cJ/Kg(up to 50Mrad)

## 케이블 구조

- 미세동선 DIN VDE 0295 cl6 cat4 BS6360 cl.6과 IEC 60228 cl6 규격
- 특수 코아 절연체, 변형 TPE
- 흑색 코아외피에 백색 연속 번호,
- 황-녹색 접지선
- 코아 최적 피치로 코아 적층 연선
- 코아 층마다 특수 절연층
- 특수 full-폴리우레탄  
회색 외피 (RAL 7001)
- 외피는 TPU, DIN VDE 0282 part 10  
회색, 비광택 처리로 부착성 없음.

## 특징

- 난연성 DIN VDE 0482 part 265-2-1 /EN 50265-2-1 / IEC 60332-1(DIN VDE 0472 part 804 검사법 B적용)
- 우수한 내유성
- 극도의 전단응력하의 multi-shift 운용에서도 영구 수명을 보장
- 내성
  - 날씨
  - 오존 및 자외선
  - 솔벤트, 산 및 알칼리
  - 유압오일

## 장점

- 기계적 긴장에 강함
- TPE-E 절연체 사용으로 마찰을 줄여 내구성 우수
- 신장력이 강하고, 저온에서도 내마모성, 내충격성이 우수함.

## 용도

- 본 트랙 체인용 특수 케이블은 기계류, 공작기계, 로봇틱 기술, 구동형 자동화 기기부위 및 multi-shift 운용처 등에 영구 비 고정식으로 사용됨.
- 본 제품은 최신 기술 개발수준에 준하여 개발되었음. 본 고풍력시블 콘트롤 케이블은 윤활특성(sliding abilities)이 있어 최적의 내구수명을 보장하며 TPE-E 재료의 코아 절연체와 폴리우레탄 (PUR)외피 사용으로 경제적인.
- 폴리우레탄(PUR)재질은 부착성이 없으며 절단 내성이 있음.
- 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.
22501	2 x 0,5	5,5	9,6	38,0	20	22512	2 x 0,75	6,2	14,4	47,0	18
22502	3 G 0,5	5,8	14,4	46,0	20	22513	3 G 0,75	6,5	21,6	58,0	18
22503	4 G 0,5	6,4	19,0	59,0	20	22514	4 G 0,75	7,0	29,0	69,0	18
22504	5 G 0,5	7,0	24,0	68,0	20	22515	5 G 0,75	7,8	36,0	85,0	18
22505	7 G 0,5	8,1	33,6	88,0	20	22516	7 G 0,75	9,0	50,0	118,0	18
22506	12 G 0,5	9,9	58,0	131,0	20	22517	12 G 0,75	11,0	86,0	183,0	18
22507	18 G 0,5	11,5	86,0	197,0	20	22518	18 G 0,75	12,9	130,0	270,0	18
22508	20 G 0,5	12,0	96,0	260,0	20	22519	20 G 0,75	13,5	144,0	290,0	18
22509	25 G 0,5	13,6	120,0	282,0	20	22520	25 G 0,75	15,4	180,0	374,0	18
22510	30 G 0,5	14,3	144,0	315,0	20	22521	30 G 0,75	16,1	216,0	420,0	18
22511	36 G 0,5	15,3	172,0	374,0	20	22522	36 G 0,75	17,4	259,0	498,0	18

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.
22523	2 x 1	6,9	19,2	55,0	17
22524	3 G 1	7,4	29,0	70,0	17
22525	4 G 1	8,0	38,0	86,0	17
22526	5 G 1	8,7	48,0	102,0	17
22527	7 G 1	10,2	67,0	143,0	17
22528	12 G 1	12,6	115,0	225,0	17
22529	18 G 1	14,8	173,0	334,0	17
22530	20 G 1	15,8	192,0	370,0	17
22531	25 G 1	17,8	240,0	460,0	17
22532	30 G 1	18,5	288,0	530,0	17
22533	36 G 1	20,1	346,0	625,0	17
22878	41 G 1	21,2	410,0	779,0	17
22879	50 G 1	24,0	498,0	953,0	17
22880	65 G 1	27,2	650,0	1205,0	17
22534	2 x 1,5	7,6	29,0	70,0	16
22535	3 G 1,5	8,1	43,0	90,0	16
22536	4 G 1,5	8,7	58,0	106,0	16
22537	5 G 1,5	9,7	72,0	145,0	16
22538	7 G 1,5	11,3	101,0	205,0	16
22539	12 G 1,5	13,8	173,0	320,0	16
22540	18 G 1,5	16,3	259,0	465,0	16
22541	20 G 1,5	17,3	288,0	510,0	16
22542	25 G 1,5	19,7	360,0	650,0	16
22543	30 G 1,5	20,3	432,0	750,0	16
22544	36 G 1,5	22,2	518,0	880,0	16
22881	42 G 1,5	24,0	628,0	1209,0	16
22882	50 G 1,5	26,2	749,0	1449,0	16
22883	61 G 1,5	28,9	912,0	1712,0	16

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.
22545	2 x 2,5	9,2	48,0	115,0	14
22546	3 G 2,5	9,7	72,0	162,0	14
22547	4 G 2,5	10,5	96,0	196,0	14
22548	5 G 2,5	11,6	120,0	250,0	14
22549	7 G 2,5	13,8	168,0	312,0	14
22550	12 G 2,5	16,9	288,0	532,0	14
22551	18 G 2,5	20,0	432,0	762,0	14
22552	20 G 2,5	21,2	480,0	858,0	14
22553	25 G 2,5	24,3	600,0	998,0	14
22554	4 G 4	13,1	154,0	283,0	12
22555	5 G 4	14,2	192,0	349,0	12
22556	7 G 4	17,1	269,0	498,0	12
22557	4 G 6	14,3	230,0	432,0	10
22558	5 G 6	15,8	288,0	529,0	10
22559	7 G 6	19,2	403,0	782,0	10
22560	4 G 10	18,4	384,0	685,0	8
22561	5 G 10	20,7	480,0	817,0	8
22562	7 G 10	24,7	672,0	1023,0	8
22563	4 G 16	21,3	614,0	1042,0	6
22564	5 G 16	23,8	768,0	1292,0	6
22565	7 G 16	28,6	1075,0	1709,0	6

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The photograph shows a large chart for Helukabel GmbH MULTIFLEX 512 PUR / C - PUR. The chart lists various cable models with columns for Art. Nr., Aderszahl x Nennquerschnitt (mm), Außendurchmesser (mm), geschl. (yes/no), Mindestbiegeradius, and other technical specifications. The chart is color-coded by model number.

To be able to provide information on the service life and in line with our certification to DIN EN ISO 9001:2000, we document the realistic testing of our cables suitable for use in drag chains.