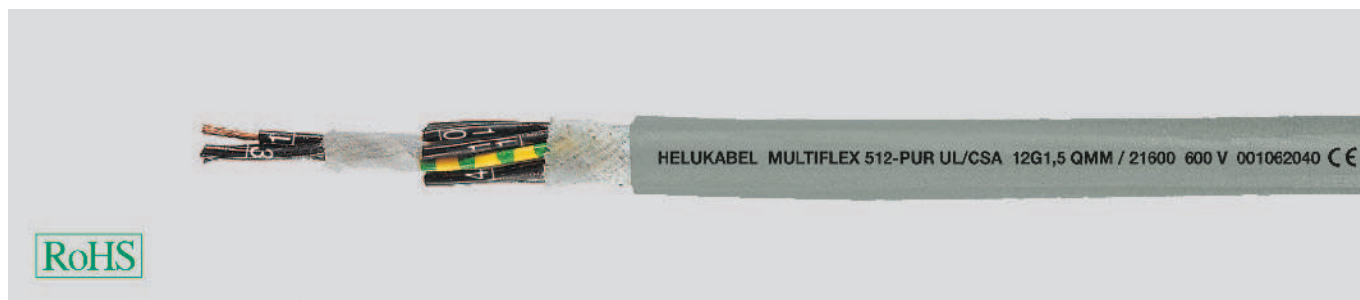


# MULTIFLEX 512®-PUR UL/CSA special cable

for drag chains, 80°C, 600V, two approvals control cable



## Technical data

- Special drag chain cables for high mechanical stress, according to UL -Style 20939
- **Temperature range**  
flexing -40°C to +80°C  
fixed installation -50°C to +80°C
- **Nominal voltage** UL 600 V
- **Test voltage**  
3000 V
- **Insulation resistance**  
min. 100 MOhm x km
- **Minimum bending radius**  
flexing 5x cable Ø  
fixed installation 3x cable Ø
- **Alternating bending cycles**  
approx. 10 million
- **Radiation resistance**  
up to 50x10<sup>6</sup> cJ/kg (up to 50 Mrad)

## Cable construction

- Bare copper, extra fine wire conductors, bunch stranded to DIN VDE 0295 cl. 6, col. 4, BS 6360 cl. 6 and IEC 60228 cl. 6
- Special core insulation, modified TPE
- Black cores with continuous white numbering
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal selected lay-length
- Special core wrapping over each layer (up to 4 mm<sup>2</sup> without core wrapping over the outer layer)
- Special **full-polyurethane** outer jacket TPU, to DIN VDE 0282 part 10
- Colour grey (RAL 7001) outer surface mat

## Properties

- Very good oil resistant
- Guaranteed permanent application in multi-shift operation under extreme high bending stress
- Adhesion-low
- High resistant to mechanical strain
- High property of alternating bending strength
- Long life durabilities through low friction-resistance by using the TPE insulation
- High tensile strength-, abrasion- and impact resistant at low temperature
- Resistant to Weather, Ozone and UV-radiation, Solvents, acids and alkalis, Hydraulic liquidity
- PUR-jacket flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core (OZ).
- Cleanroom qualification tested with analog type. Please note "cleanroom qualified" when ordering.

## Application

These special UL/CSA cables for drag chains are used for permanent flexible applications in machineries, machine tools, robot technics, for movable automated machinery parts and multi-shift operation. Those cables are developed according to the newest state of technology improvement. These high flexible control cables with sliding abilities guaranteed an optimum service life durabilities and also very economic by using the TPE-core insulation and the PUR-outer jacket. The PUR material is adhesion-low and cut-resistant.

For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems.

Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.

CE= The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
21559	2 x 0,5	20	5,5	9,6	38,0	21577	20 G 0,75	18	13,5	144,0	290,0
21560	3 G 0,5	20	5,8	14,4	46,0	21578	25 G 0,75	18	15,4	180,0	374,0
21561	4 G 0,5	20	6,4	19,0	59,0	21579	30 G 0,75	18	16,1	216,0	420,0
21562	5 G 0,5	20	7,0	24,0	68,0	21580	36 G 0,75	18	17,4	259,0	498,0
21563	7 G 0,5	20	8,1	33,6	88,0						
21564	12 G 0,5	20	9,9	58,0	131,0	21581	2 x 1	17	6,9	19,2	55,0
21565	18 G 0,5	20	11,5	86,0	197,0	21582	3 G 1	17	7,4	29,0	70,0
21566	20 G 0,5	20	12,0	96,0	260,0	21583	4 G 1	17	8,0	38,0	86,0
21567	25 G 0,5	20	13,6	120,0	282,0	21584	5 G 1	17	8,7	48,0	102,0
21568	30 G 0,5	20	14,3	144,0	315,0	21585	7 G 1	17	10,2	67,0	143,0
21569	36 G 0,5	20	15,3	172,0	374,0	21586	12 G 1	17	12,6	115,0	225,0
						21587	18 G 1	17	14,8	173,0	334,0
21570	2 x 0,75	18	6,2	14,4	47,0	21588	20 G 1	17	15,8	192,0	370,0
21571	3 G 0,75	18	6,5	21,6	58,0	21589	25 G 1	17	17,8	240,0	460,0
21572	4 G 0,75	18	7,0	29,0	69,0	21590	30 G 1	17	18,5	288,0	530,0
21573	5 G 0,75	18	7,8	36,0	85,0	21591	36 G 1	17	20,1	346,0	625,0
21574	7 G 0,75	18	9,0	50,0	118,0	21592	41 G 1	17	21,2	410,0	779,0
21575	12 G 0,75	18	11,0	86,0	183,0	21593	50 G 1	17	24,0	498,0	953,0
21576	18 G 0,75	18	12,9	130,0	270,0	21594	65 G 1	17	27,2	650,0	1205,0

Dimensions and specifications may be changed without prior notice.

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