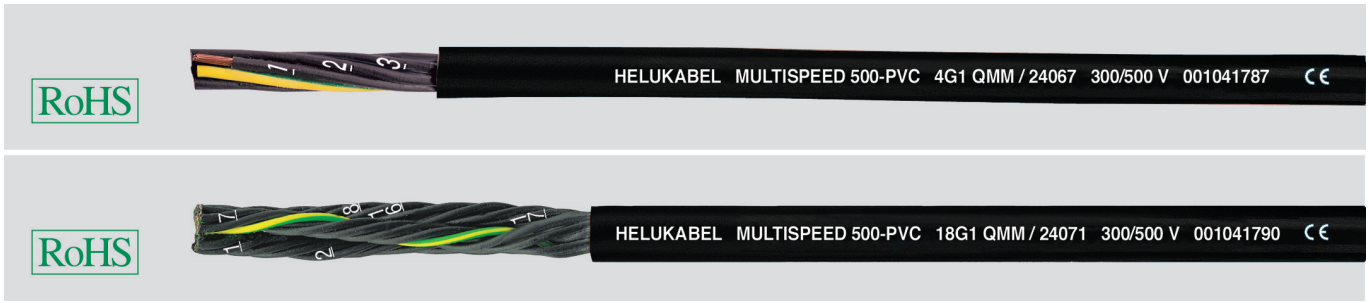
MULTISPEED® 500-PVC high flexible, safety against high bending

in drag chain systems, oil resistant, low torsion, meter marking



Technical data

- Special drag chain cables for high mechanical stress adapted to DIN VDE 0285-525-2-51/ DIN EN 50525-2-51
- **Temperature range** flexing -15°C to +80°C fixed installation -30°C to +80°C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 3000 V
- **Insulation resistance** min. 100 MOhm x km
- **Minimum bending radius** flexing 7,5x cable Ø fixed installation 4x cable Ø
- **Radiation resistance** up to 80x10^6 cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, fine wire conductors, Unilay with short pitch length
- Core insulation of special PP
- Core identification black cores with continuous white numbering
- GN-YE conductor, 3 cores and above
- Stranding: <7 cores: cores stranded in a layer with optimal lay-length around a filler as per construction ⩾7 cores: cores stranded with optimal lay-length to bunch-construction with low torsion strength, optimal selected short lay-length around a filler
- Outer sheath of special PVC, especially resistant against fatigue strength, extruded as filler with pressure
- Sheath colour black (RAL 9005)
- with meter marking

Properties

- Low adhesion
- ozon- and uv-resistant
- High property of alternating bending strength
- High resistant to mechanical strain
- Long life durabilities due to low friction-resistancen
- Better chemical resistance
- High stability
- Higher economical solution
- Reduced Ø, results low weight of moving materials
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Oil resistance to DIN VDE 0473-811-404 / DIN EN 60811-404

Note

- G = with green-yellow conductor x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- screened analogue type: **MULTISPEED® 500-C-PVC**

Application

HELUKABEL® MULTISPEED 500-PVC are installed there, where the extreme requirements for the cables are necessary. The selected materials and lay-up technique permit these high flexible cables for permanent application in drag chains for long distances, high and low speed of movements. These high flexible PVC control cables are suitable for shift- and bending stresses in machines and machine tool constructions. These are installed in dry, moist rooms and in open air with free movement without tensile stress or forced movements. 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 2006/95/EC.

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
24050	2 x 0,5	4,3	9,6	40,0	20
24051	3 G 0,5	4,6	14,4	45,0	20
24052	4 G 0,5	5,0	19,0	57,0	20
24053	5 G 0,5	5,4	24,0	66,0	20
24054	7 G 0,5	8,9	33,6	81,0	20
24055	12 G 0,5	9,7	58,0	133,0	20
24056	18 G 0,5	11,8	86,0	194,0	20
24057	25 G 0,5	13,9	120,0	274,0	20
24058	4 G 0,75	5,6	29,0	63,0	19
24059	5 G 0,75	6,3	36,0	79,0	19
24060	7 G 0,75	10,3	50,0	107,0	19
24061	12 G 0,75	11,0	86,0	169,0	19
24062	18 G 0,75	13,9	130,0	247,0	19
24063	25 G 0,75	15,9	180,0	366,0	19
24064	36 G 0,75	19,6	259,0	540,0	19
24065	42 G 0,75	21,5	302,0	630,0	19
24066	3 G 1	5,4	29,0	69,0	18
24067	4 G 1	5,9	38,4	86,0	18

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
24068	5 G 1	6,7	48,0	101,0	18
24069	7 G 1	11,1	67,0	140,0	18
24070	12 G 1	12,0	115,0	227,0	18
24071	18 G 1	14,8	173,0	351,0	18
24072	25 G 1	17,2	240,0	489,0	18
24073	3 G 1,5	6,4	43,0	88,0	16
24074	4 G 1,5	7,0	58,0	110,0	16
24075	5 G 1,5	7,8	72,0	130,0	16
24076	7 G 1,5	13,0	101,0	182,0	16
24077	12 G 1,5	14,2	173,0	319,0	16
24078	18 G 1,5	17,5	259,0	420,0	16
24079	25 G 1,5	20,1	360,0	604,0	16
24080	4 G 2,5	8,8	96,0	172,0	14
24081	5 G 2,5	9,8	120,0	219,0	14
24082	7 G 2,5	16,1	168,0	303,0	14
24083	12 G 2,5	17,8	288,0	504,0	14
24084	18 G 2,5	21,8	432,0	754,0	14
24085	25 G 2,5	24,4	600,0	940,0	14

Dimensions and specifications may be changed without prior notice. (RC01)