MULTISPEED® 500-PVC

oil-resistant, for extreme mechanical stress

TECHNICAL DATA

PVC drag chain cable in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	flexible -15°C to +80°C fixed -30°C to +80°C
Nominal voltage	AC U_o/U 300/500 V
Test voltage core/core	3000 V
Minimum bending radius	flexible 7.5x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded, unilay with short lay lengths
- Core insulation: Special-PP
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores,
  G = with protective conductor GN-YE,
  x = without protective conductor
- Stranding:
  2 - 5 core(s): cores stranded into one layer with an optimally matched short lay length
  7 - 42 core(s): cores stranded into bundles with optimally matched, short lay lengths; bundles stranded together around a tensile core
- Outer sheath: Special-PVC, extruded filler
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, ozone
- largely resistant to: chemicals
- low adhesion
- for outdoor use
- highly restistant to alternate bending strength
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404

APPLICATION

HELUKABEL® MULTISPEED® 500-PVC is used when extreme demands are imposed on the cable. Integrated materials and stranding techniques permit continuous use as highly flexible drag chain cables with long travelling distance capabilities at high or low speeds. For installation in dry and damp rooms, as well as outdoors with free movement, without tensile stress and without forced motion control capabilities. Suitable for frequent lifting and bending stress in machine and tool construction.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for use in energy supply systems:
  1) the assembly instructions must be observed
  2) for further application parameters, please refer to the selection tables
  3) for special applications, we recommend contacting us and using our data entry form for energy supply systems

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24050	2 x 0.5	20	4.3	9.6	40.0
24051	3 G 0.5	20	4.6	14.4	45.0
24052	4 G 0.5	20	5.0	19.0	57.0
24053	5 G 0.5	20	5.4	24.0	66.0
24054	7 G 0.5	20	8.9	33.6	81.0
24055	12 G 0.5	20	9.7	58.0	133.0
24056	18 G 0.5	20	11.8	86.0	194.0
24057	25 G 0.5	20	13.9	120.0	274.0
25076	2 x 0.75	19	4.8	14.4	35.1
25077	3 x 0.75	19	5.2	21.6	42.9
24058	4 G 0.75	19	5.6	29.0	63.0
24059	5 G 0.75	19	6.3	36.0	79.0
24060	7 G 0.75	19	10.3	50.0	107.0
24061	12 G 0.75	19	11.0	86.0	169.0
24062	18 G 0.75	19	13.9	130.0	247.0
24063	25 G 0.75	19	15.9	180.0	366.0
24064	36 G 0.75	19	19.6	259.0	540.0
24065	42 G 0.75	19	21.5	302.0	630.0
25078	2 x 1	18	5.1	19.2	38.1
24066	3 G 1	18	5.4	29.0	69.0
24067	4 G 1	18	5.9	38.4	86.0
24068	5 G 1	18	6.7	48.0	101.0
24069	7 G 1	18	11.1	67.0	140.0
24070	12 G 1	18	12.0	115.0	227.0
24071	18 G 1	18	14.8	173.0	351.0
24072	25 G 1	18	17.2	240.0	489.0
25079	2 x 1.5	16	6.0	28.8	55.2
24073	3 G 1.5	16	6.4	43.0	88.0
24074	4 G 1.5	16	7.0	58.0	110.0
24075	5 G 1.5	16	7.8	72.0	130.0
24076	7 G 1.5	16	13.0	101.0	182.0
24077	12 G 1.5	16	14.2	173.0	319.0
24078	18 G 1.5	16	17.5	259.0	420.0
24079	25 G 1.5	16	20.1	360.0	604.0
25102	2 x 2.5	14	7.4	48.0	89.9
25103	3 G 2.5	14	8.1	72.0	113.0
24080	4 G 2.5	14	8.8	96.0	172.0
24081	5 G 2.5	14	9.8	120.0	219.0
24082	7 G 2.5	14	16.1	168.0	303.0
24083	12 G 2.5	14	17.8	288.0	504.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24084	18 G 2.5	14	21.8	432.0	754.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24085	25 G 2.5	14	24.4	600.0	940.0