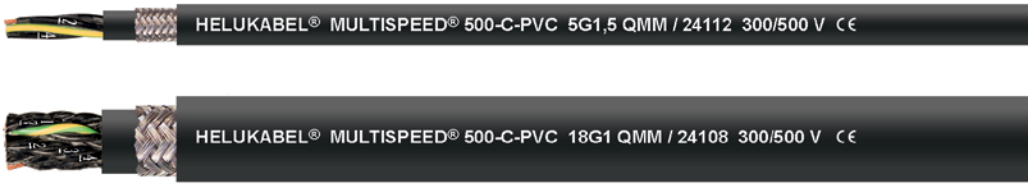
MULTISPEED® 500-C-PVC

oil-resistant, for extreme mechanical stress, EMC-preferred type



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
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
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 - 25 core(s): cores stranded into bundles with optimally matched, short lay lengths; bundles stranded together around a tensile core
- Inner sheath: PVC, compound type YM2, extruded filler, black
- Screen: braided screen of tinned copper, approx. coverage 85%
- Outer sheath: Special-PVC
- 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-C-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. These copper screened cables are ideally suited for interference-free data and signal transmission for measurement and control technology. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round large contact area of the copper braiding.

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.
24086	2 x 0.5	20	6.2	30.0	88.0
24087	3 G 0.5	20	6.7	36.0	101.0
24088	4 G 0.5	20	7.2	42.0	116.0
24089	5 G 0.5	20	7.6	48.0	146.0
24090	7 G 0.5	20	11.4	64.0	181.0
24091	9 G 0.5	20	11.4	80.0	219.0
24092	12 G 0.5	20	12.4	105.0	271.0
24093	18 G 0.5	20	14.7	137.0	374.0
24094	25 G 0.5	20	17.1	210.0	542.0
24095	2 x 0.75	19	6.8	40.0	96.0
24096	3 G 0.75	19	7.3	48.0	111.0
24097	4 G 0.75	19	7.8	55.0	140.0
24098	5 G 0.75	19	8.3	66.0	161.0
24099	7 G 0.75	19	12.7	85.0	227.0
24100	12 G 0.75	19	13.7	135.0	317.0
24101	18 G 0.75	19	17.1	190.0	486.0
24102	25 G 0.75	19	19.5	275.0	651.0
25104	2 x 1	18	7.3	47.0	93.0
24103	3 G 1	18	7.6	59.0	131.0
24104	4 G 1	18	8.1	70.0	164.0
24105	5 G 1	18	8.9	84.0	198.0
24106	7 G 1	18	13.6	106.0	252.0
24107	12 G 1	18	14.6	174.0	410.0
24108	18 G 1	18	18.4	240.0	550.0
24109	25 G 1	18	21.0	332.0	756.0
25105	2 x 1.5	16	8.0	63.5	120.0
24110	3 G 1.5	16	8.4	75.0	166.0
24111	4 G 1.5	16	9.1	90.0	199.0
24112	5 G 1.5	16	10.2	108.0	229.0
24113	7 G 1.5	16	15.7	157.0	304.0
24114	12 G 1.5	16	17.4	240.0	502.0
24115	18 G 1.5	16	21.3	355.0	709.0

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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.
24116	25 G 1.5	16	24.3	448.0	939.0
25106	2 x 2.5	14	9.2	90.8	163.0
25107	3 G 2.5	14	10.1	114.8	189.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24117	4 G 2.5	14	11.2	134.0	270.0
24118	5 G 2.5	14	12.2	175.0	335.0