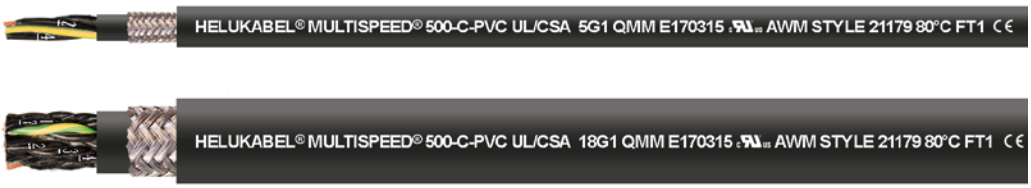
MULTISPEED® 500-C-PVC UL/CSA

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



TECHNICAL DATA

PVC drag chain cable acc. to UL-Std. 758 (AWM) Style 21179, CSA-Std. C22.2 No. 210 - AWM I/II A/B, in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	flexible -5°C to +80°C fixed -30°C to +80°C
Nominal voltage	VDE AC U_0/U 300/500 V UL (AWM) AC 600 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, extruded filler, black
- Screen: braided screen of tinned copper wires, 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
- suitable for use in drag chains
- 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, UL VW-1, CSA FT1
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- certifications and approvals:
  EAC

APPLICATION

For continuous operation with long travelling distances 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. Used as a highly flexible PVC drag chain cable suitable for frequent lifting and bending stress in machine and tool construction. These copper screened cables are ideally suited for interference-free data signal transmission in 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.
24335	2 x 0.5	20	6.6	30.0	70.0
24336	3 G 0.5	20	6.9	36.0	101.0
24337	4 G 0.5	20	7.3	42.0	116.0
24338	5 G 0.5	20	7.8	48.0	146.0
24339	7 G 0.5	20	11.3	64.0	181.0
24340	9 G 0.5	20	11.4	80.0	219.0
24341	12 G 0.5	20	12.6	105.0	271.0
24342	18 G 0.5	20	15.0	137.0	374.0
24343	25 G 0.5	20	17.1	210.0	542.0
24344	2 x 0.75	19	6.9	37.5	78.0
24345	3 G 0.75	19	7.4	48.0	111.0
24346	4 G 0.75	19	8.0	55.0	140.0
24347	5 G 0.75	19	8.5	66.0	161.0
24348	7 G 0.75	19	12.9	85.0	227.0
24349	12 G 0.75	19	14.4	135.0	317.0
24350	18 G 0.75	19	17.5	190.0	486.0
24351	25 G 0.75	19	19.9	275.0	651.0
25298	2 x 1	18	7.4	47.0	91.0
24352	3 G 1	18	7.7	59.0	131.0
24353	4 G 1	18	8.3	70.0	164.0
24354	5 G 1	18	9.1	84.0	198.0
24355	7 G 1	18	14.0	106.0	252.0
24356	12 G 1	18	15.0	174.0	410.0
24357	18 G 1	18	18.7	240.0	550.0
24358	25 G 1	18	21.2	332.0	756.0
25299	2 x 1.5	16	8.1	63.5	110.0
24359	3 G 1.5	16	8.6	75.0	166.0
24360	4 G 1.5	16	9.4	90.0	199.0

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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.
24361	5 G 1.5	16	10.4	108.0	229.0
24362	7 G 1.5	16	16.0	157.0	304.0
24363	12 G 1.5	16	17.6	240.0	502.0
24364	18 G 1.5	16	21.3	355.0	709.0
24365	25 G 1.5	16	24.8	448.0	939.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
25300	2 x 2.5	14	9.4	90.8	170.0
25301	3 G 2.5	14	10.3	114.8	194.0
24366	4 G 2.5	14	11.3	134.0	270.0
24367	5 G 2.5	14	12.3	175.0	335.0