

# MULTISPEED® 500-PVC UL/CSA

for extreme mechanical stress, 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 <sub>0</sub> /U 300/500 V UL (AWM) AC 600 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

- suitable for use in drag chains
- highly resistant 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

This UL/CSA approved cable is used when extreme demands are placed on the cable. Designed for export-oriented mechanical engineers, specifically in the USA and Canada. Gearing toward the needs of the industry, materials and stranding techniques permit uninterrupted 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, these cables are suitable for frequent lifting and bending stress in machine and tool construction.

## NOTES

- the conductor is metrically (mm<sup>2</sup>) 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. mm <sup>2</sup>	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24295	2 x 0.5	20	4.8	9.6	40.0
24296	3 G 0.5	20	5.1	14.4	45.0
24297	4 G 0.5	20	5.5	19.0	57.0
24298	5 G 0.5	20	6.0	24.0	66.0
24299	7 G 0.5	20	9.1	33.6	81.0
24300	12 G 0.5	20	10.0	58.0	133.0
24301	18 G 0.5	20	12.2	86.0	194.0
24302	25 G 0.5	20	14.3	120.0	274.0
25229	2 x 0.75	19	5.3	14.4	40.0
25239	3 G 0.75	19	5.7	21.6	48.0
24303	4 G 0.75	19	6.1	29.0	63.0
24304	5 G 0.75	19	6.6	36.0	79.0
24305	7 G 0.75	19	10.5	50.0	107.0
24306	12 G 0.75	19	11.4	86.0	169.0
24307	18 G 0.75	19	14.2	130.0	247.0
24308	25 G 0.75	19	16.3	180.0	366.0

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24309	36 G 0.75	19	20.1	259.0	540.0
24310	42 G 0.75	19	22.2	302.0	630.0
25249	2 x 1	18	5.6	19.2	46.0
24311	3 G 1	18	5.9	29.0	69.0
24312	4 G 1	18	6.4	38.4	86.0
24313	5 G 1	18	7.0	48.0	101.0
24314	7 G 1	18	11.2	67.0	140.0
24315	12 G 1	18	12.3	115.0	227.0
24316	18 G 1	18	15.1	173.0	351.0
24317	25 G 1	18	17.6	240.0	489.0
25295	2 x 1.5	16	6.3	28.8	56.0
24318	3 G 1.5	16	6.7	43.0	88.0
24319	4 G 1.5	16	7.3	58.0	110.0
24320	5 G 1.5	16	8.0	72.0	130.0
24321	7 G 1.5	16	13.2	101.0	182.0
24322	12 G 1.5	16	14.4	173.0	319.0

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24323	18 G 1.5	16	17.7	259.0	420.0	24326	5 G 2.5	14	9.9	120.0	219.0
24324	25 G 1.5	16	20.5	360.0	604.0	24327	7 G 2.5	14	16.1	168.0	303.0
25296	2 x 2.5	14	7.4	48.0	93.0	24328	12 G 2.5	14	17.8	288.0	504.0
25297	3 G 2.5	14	8.1	72.0	117.0	24329	18 G 2.5	14	21.8	432.0	754.0
24325	4 G 2.5	14	8.9	96.0	172.0	24330	25 G 2.5	14	24.4	600.0	940.0

15.03.2023 / We reserve the right to make technical changes; the imprint in the image is purely exemplary