

MULTISPEED® 500-PUR UL/CSA

for extreme mechanical stress



TECHNICAL DATA

PUR drag chain cable acc. to UL-Std. 758 (AWM) Style 20939, CSA-Std. C22.2 No. 210 - AWM I/II A/B

Temperature range	flexible -30°C to +80°C fixed -40°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
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 grade of full polyurethane acc. to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU), extruded filler
- Sheath colour: black (RAL 9004)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, ozone, oxygen, weathering effects, hydrolysis, microbes, coolants, hydraulic fluids, acids, alkalis, greases, seawater and wastewater
- largely resistant to: chemicals

- highly abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- for outdoor use
- suitable for use in drag chains
- highly resistant to alternate bending strength
- halogen-free
- 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
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2

APPLICATION

This UL/CSA approved cable is used when extreme demands are placed on the cable. 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, damp and wet rooms, as well as outdoors. For applications with the highest demands on flexibility, abrasion resistance and robustness, e.g. in cable carrier systems on industrial robots, production lines, automation systems and other permanently moving machine parts in continuous and multi-shift operation.

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. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24370	2 x 0.5	20	4.8	9.6	41.0
24371	3 G 0.5	20	5.1	14.4	48.0
24372	4 G 0.5	20	5.5	19.0	62.0
24373	5 G 0.5	20	6.0	24.0	70.0
24374	7 G 0.5	20	9.1	33.6	88.0
24375	12 G 0.5	20	10.0	58.0	131.0
24376	18 G 0.5	20	12.2	86.0	204.0
24377	25 G 0.5	20	14.3	120.0	266.0
25302	2 x 0.75	19	5.3	14.4	31.0
24378	3 G 0.75	19	5.7	21.6	51.0
24379	4 G 0.75	19	6.1	29.0	68.0
24380	5 G 0.75	19	6.6	36.0	73.0
24381	7 G 0.75	19	10.5	50.0	92.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24382	12 G 0.75	19	11.4	86.0	170.0
24383	18 G 0.75	19	14.2	130.0	257.0
24384	25 G 0.75	19	16.3	180.0	280.0
24385	36 G 0.75	19	20.1	260.0	411.0
24386	42 G 0.75	19	22.2	302.0	608.0
25303	2 x 1	18	5.8	19.2	38.0
24387	3 G 1	18	5.9	29.0	59.0
24388	4 G 1	18	6.4	38.0	71.0
24389	5 G 1	18	7.0	48.0	84.0
24390	7 G 1	18	11.2	67.0	111.0
24391	12 G 1	18	12.3	115.0	200.0
24392	18 G 1	18	15.1	173.0	286.0
24393	25 G 1	18	17.6	240.0	370.0

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Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24331	36 G 1	18	21.6	346.0	485.0
11007258	41 G 1	18	22.8	394.0	692.0
25304	2 x 1.5	16	6.4	28.8	53.0
24394	3 G 1.5	16	6.7	43.0	81.0
24395	4 G 1.5	16	7.3	58.0	102.0
24396	5 G 1.5	16	8.0	72.0	121.0
24397	7 G 1.5	16	13.2	101.0	164.0
24398	12 G 1.5	16	15.0	173.0	293.0
24399	18 G 1.5	16	17.7	259.0	450.0
24400	25 G 1.5	16	20.5	360.0	631.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
24332	36 G 1.5	16	25.6	518.0	779.0
25305	2 x 2.5	14	7.8	48.0	87.0
25306	3 G 2.5	14	8.2	72.0	110.0
24401	4 G 2.5	14	8.9	96.0	173.0
24402	5 G 2.5	14	9.8	120.0	220.0
24403	7 G 2.5	14	16.1	168.0	290.0
24404	12 G 2.5	14	17.8	288.0	504.0
24405	18 G 2.5	14	21.8	432.0	719.0
24406	25 G 2.5	14	24.4	600.0	940.0