

# MULTISPEED® 500-PUR

for extreme mechanical stress



## TECHNICAL DATA

PUR drag chain cable in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51, DIN VDE 0285-525-2-21 / DIN EN 50525-2-21

<b>Temperature range</b>	flexible -30°C to +80°C fixed -40°C to +80°C
<b>Nominal voltage</b>	AC U <sub>0</sub> /U 300/500 V
<b>Test voltage core/core</b>	3000 V
<b>Minimum bending radius</b>	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 9005)
- 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

- 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

- 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

Suitable for continuous operation with long travelling distance capabilities at high or low speeds in dry, damp and wet rooms, as well as outdoors. For applications where the highest demands are placed on flexibility and abrasion resistance, e.g. in energy supply chains, industrial robots, production lines, automation systems and on permanently moving machine parts for uninterrupted operation.

## ■ 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.
24119	2 x 0.5	20	4.3	9.6	41.0
24120	3 G 0.5	20	4.6	14.4	48.0
24121	4 G 0.5	20	5.0	19.0	62.0
24122	5 G 0.5	20	5.4	24.0	70.0
24123	7 G 0.5	20	8.9	33.6	88.0
24124	12 G 0.5	20	9.7	58.0	131.0
24125	18 G 0.5	20	11.8	86.0	204.0
24126	25 G 0.5	20	13.9	120.0	266.0
25108	2 x 0.75	19	4.8	14.4	31.0
24127	3 G 0.75	19	5.2	21.6	51.0
24128	4 G 0.75	19	5.6	29.0	68.0
24129	5 G 0.75	19	6.3	36.0	73.0
24130	7 G 0.75	19	10.3	50.0	92.0
24131	12 G 0.75	19	11.0	86.0	170.0
24132	18 G 0.75	19	13.9	130.0	257.0
24133	25 G 0.75	19	15.9	180.0	280.0
24134	36 G 0.75	19	19.6	260.0	411.0

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.
24135	42 G 0.75	19	21.5	302.0	608.0
25109	2 x 1	18	5.1	19.2	38.0
24136	3 G 1	18	5.4	29.0	59.0
24137	4 G 1	18	5.9	38.0	71.0
24138	5 G 1	18	6.7	48.0	84.0
24139	7 G 1	18	11.1	67.0	111.0
24140	12 G 1	18	12.0	115.0	200.0
24141	18 G 1	18	14.8	173.0	286.0
24142	25 G 1	18	17.2	240.0	370.0
25119	2 x 1.5	16	6.0	28.8	53.0
24143	3 G 1.5	16	6.4	43.0	81.0
24144	4 G 1.5	16	7.0	58.0	102.0
24145	5 G 1.5	16	7.8	72.0	121.0
24146	7 G 1.5	16	13.0	101.0	164.0
24147	12 G 1.5	16	14.2	173.0	293.0
24148	18 G 1.5	16	17.5	259.0	450.0
24149	25 G 1.5	16	20.1	360.0	631.0

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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.
25129	2 x 2.5	14	7.4	48.0	87.0
25139	3 G 2.5	14	8.1	72.0	110.0
24150	4 G 2.5	14	8.8	96.0	173.0
24151	5 G 2.5	14	9.8	120.0	220.0

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.
24152	7 G 2.5	14	16.1	168.0	290.0
24153	12 G 2.5	14	17.8	288.0	504.0
24154	18 G 2.5	14	21.8	432.0	719.0
24155	25 G 2.5	14	24.4	600.0	940.0