

# MULTISPEED® 500-C-PUR

for extreme mechanical stress, EMC-preferred type



## 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>Coupling resistance</b>	at 30 MHz, approx. 250 Ohm/km
<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 - 25 core(s): cores stranded into bundles with optimally matched, short lay lengths; bundles stranded together around a tensile core
- Inner sheath: TPE, extruded filler, black
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: Special grade of full polyurethane acc. to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU)
- Sheath colour: black (RAL 9005)
- Length marking: in metres

## ■ PROPERTIES

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.
24156	2 x 0.5	20	6.4	30.0	90.0
24157	3 G 0.5	20	6.7	36.0	104.0
24158	4 G 0.5	20	7.2	42.0	118.0
24159	5 G 0.5	20	7.6	48.0	148.0
24160	7 G 0.5	20	11.4	64.0	184.0
24161	9 G 0.5	20	11.4	80.0	219.0
24162	12 G 0.5	20	12.4	105.0	276.0
24163	18 G 0.5	20	14.7	137.0	378.0
24164	25 G 0.5	20	17.1	210.0	547.0
24165	2 x 0.75	19	6.8	40.0	100.0
24166	3 G 0.75	19	7.3	48.0	117.0
24167	4 G 0.75	19	7.8	55.0	143.0
24168	5 G 0.75	19	8.3	66.0	167.0

- 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. This robust cable is used wherever the highest demands are placed on flexibility, abrasion resistance, ozone and chemical resistance. 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 (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.
24169	7 G 0.75	19	12.7	85.0	229.0
24170	12 G 0.75	19	13.7	135.0	319.0
24171	18 G 0.75	19	17.1	190.0	492.0
24172	25 G 0.75	19	19.5	275.0	659.0
24173	2 x 1	18	7.1	50.0	120.0
24174	3 G 1	18	7.6	59.0	140.0
24175	4 G 1	18	8.1	70.0	167.0
24176	5 G 1	18	8.9	84.0	201.0
24177	7 G 1	18	13.6	106.0	256.0
24178	12 G 1	18	14.6	174.0	417.0
24179	18 G 1	18	18.4	240.0	557.0
24180	25 G 1	18	21.0	332.0	766.0
25149	2 x 1.5	16	8.0	63.5	100.0

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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.
24181	3 G 1.5	16	8.4	75.0	170.0
24182	4 G 1.5	16	9.1	90.0	204.0
24183	5 G 1.5	16	10.2	108.0	236.0
24184	7 G 1.5	16	15.7	157.0	309.0
24185	12 G 1.5	16	17.4	240.0	509.0
24186	18 G 1.5	16	21.3	355.0	718.0

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.
24187	25 G 1.5	16	24.3	448.0	944.0
25159	2 x 2.5	14	9.2	90.8	165.0
25169	3 G 2.5	14	10.1	114.8	191.0
24188	4 G 2.5	14	11.2	134.0	280.0
24189	5 G 2.5	14	12.2	175.0	346.0
24190	7 G 2.5	14	19.7	229.0	410.0