

# SUPER-PAAR-TRONIC-340-C-PUR



colour code DIN 47100, EMC-preferred type



HELUKABEL® SUPER-PAAR-TRONIC 340-C-PUR 8x2x0,5 QMM E 170315  
AWM STYLE 20233 20 AWG 16C VW-1 AWM I/II A/B 80°C 300V FT1/49854 C€

## TECHNICAL DATA

PUR drag chain cable acc. to UL-Std. 758 (AWM) Style 20233, CSA-Std. C22.2 No. 210 - AWM I/II A/B

<b>Temperature range</b>	flexible -30°C to +80°C fixed -40°C to +80°C
<b>Nominal voltage</b>	UL (AWM) AC 300 V
<b>Test voltage core/core</b>	1500 V
<b>Test voltage core/screen</b>	1000 V
<b>Mutual capacitance core/core</b>	at 800 Hz, approx. 60 pF/m
<b>Coupling resistance</b>	at 30 MHz, approx. 250 Ohm/km
<b>Minimum bending radius</b>	flexible 0.14 - 0.25 mm <sup>2</sup> : 7.5 x Outer-Ø 0.34 - 1 mm <sup>2</sup> : 10 x Outer-Ø fixed 0.14 - 0.25 mm <sup>2</sup> : 4 x Outer-Ø 0.34 - 1 mm <sup>2</sup> : 5 x Outer-Ø

## ■ CABLE STRUCTURE

- Copper wire bare, extra finely stranded, 0.5 - 1 mm<sup>2</sup>: acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Wire structure:  
0.14 mm<sup>2</sup>: approx. 18 x 0.1 mm  
0.25 mm<sup>2</sup>: approx. 32 x 0.1 mm  
0.34 mm<sup>2</sup>: approx. 42 x 0.1 mm
- Core insulation: PP
- Core identification acc. to DIN 47100 (paired stranding), colour coded
- x = without protective conductor
- Cores stranded in pairs with optimally matched lay lengths, Pairs stranded in layers with optimally matched lay lengths
- Fleece wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Fleece wrapping
- Outer sheath: Special grade of full polyurethane in alignment with DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU), UL-Std. 1581
- Sheath colour: grey (RAL 7001)
- 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.
49536	1 x 2 x 0.14	26	4.3	13.0	24.0
49537	2 x 2 x 0.14	26	5.5	19.2	41.0
49538	3 x 2 x 0.14	26	5.8	23.3	52.0
49539	4 x 2 x 0.14	26	6.2	27.0	59.0
49540	5 x 2 x 0.14	26	6.7	37.6	72.0
49541	6 x 2 x 0.14	26	7.2	49.2	89.0

- 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
- 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

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- 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
- certifications and approvals:  
EAC

## ■ APPLICATION

Stranded in pairs, this fully-screened special drag chain cable can also be used where external, high-frequency interference influences pulse transfer. It is used for permanently flexible stresses in machine and tool building, in robotics, on constantly moving machine components and for extended use in multi-shift operations. This two-approval cable is preferred for use in export-oriented mechanical engineering, in machine tools, production lines and systems engineering. Allows for extended use in multi-shift operations with extremely high bending stresses. 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.
49542	8 x 2 x 0.14	26	8.4	54.6	107.0
49543	10 x 2 x 0.14	26	9.1	60.0	116.0
49830	1 x 2 x 0.25	24	4.9	14.0	26.0
49831	2 x 2 x 0.25	24	6.6	32.0	61.0
49832	3 x 2 x 0.25	24	6.9	38.4	70.0
49833	4 x 2 x 0.25	24	7.5	43.2	82.0

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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.
49834	5 x 2 x 0.25	24	8.1	51.5	99.0
49835	6 x 2 x 0.25	24	8.8	71.8	126.0
49836	8 x 2 x 0.25	24	10.4	74.4	147.0
49837	10 x 2 x 0.25	24	11.3	90.0	179.0
49838	14 x 2 x 0.25	24	12.4	111.2	210.0
49839	1 x 2 x 0.34	22	5.1	20.0	35.0
49840	2 x 2 x 0.34	22	6.9	41.0	80.0
49841	3 x 2 x 0.34	22	7.3	52.2	100.0
49842	4 x 2 x 0.34	22	7.9	59.1	118.0
49843	5 x 2 x 0.34	22	8.6	67.0	134.0
49844	6 x 2 x 0.34	22	9.5	86.4	162.0
49845	8 x 2 x 0.34	22	11.2	107.5	214.0
49846	10 x 2 x 0.34	22	12.1	131.0	270.0
49847	14 x 2 x 0.34	22	13.5	150.0	304.0
49848	1 x 2 x 0.5	20	5.7	22.5	47.0
49849	2 x 2 x 0.5	20	7.9	53.0	100.0
49850	3 x 2 x 0.5	20	8.4	72.8	131.0
49851	4 x 2 x 0.5	20	9.3	75.6	149.0
49852	5 x 2 x 0.5	20	10.1	85.7	169.0

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.
49853	6 x 2 x 0.5	20	11.2	103.0	181.0
49854	8 x 2 x 0.5	20	13.6	148.4	274.0
49855	10 x 2 x 0.5	20	14.7	180.0	332.0
49856	14 x 2 x 0.5	20	16.3	218.3	390.0
49857	1 x 2 x 0.75	19	6.4	35.2	56.0
49858	2 x 2 x 0.75	19	9.1	61.4	102.0
49859	3 x 2 x 0.75	19	9.8	87.1	144.0
49860	4 x 2 x 0.75	19	10.9	95.2	160.0
49861	5 x 2 x 0.75	19	12.1	115.0	193.0
49862	6 x 2 x 0.75	19	13.5	137.1	216.0
49863	8 x 2 x 0.75	19	16.1	184.4	327.0
49864	10 x 2 x 0.75	19	17.4	259.8	451.0
49865	14 x 2 x 0.75	19	19.2	318.4	521.0
49866	1 x 2 x 1	18	6.9	42.0	64.0
49867	2 x 2 x 1	18	10.1	73.0	120.0
49868	3 x 2 x 1	18	10.9	93.6	160.0
49869	4 x 2 x 1	18	12.1	117.8	184.0
49870	5 x 2 x 1	18	13.6	139.0	217.0