

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

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

■ CABLE STRUCTURE

- Copper wire bare, extra finely stranded, 0.5 - 1 mm²: acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Wire structure:
0.14 mm²: approx. 18 x 0.1 mm
0.25 mm²: approx. 32 x 0.1 mm
0.34 mm²: 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 ²	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 (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.
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 ²	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 ²	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

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