

HELUCHAIN® JZ-602-HF-C PVC UL/CSA



EMC-preferred type



HELUCHAIN® JZ-602-HF-C PVC AWM STYLE 21179 18 AWG / 1 QMM 7 C
E170315 80°C 1000 V VW-1 AWM I / II A / B 80°C 1000 V FT 1 CE

TECHNICAL DATA

PVC drag chain cable acc. to UL-Std. 758 (AWM) Style 21179, CSA-Std. C22.2 No. 210 - AWM I/II A/B

Temperature range	flexible -5°C to +80°C fixed -40°C to +80°C
Nominal voltage	UL (AWM) AC 1000 V
Test voltage core/core	3000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, extra finely stranded acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Core insulation: PP
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- G = with protective conductor GN-YE, in the outer layer
- Cores stranded in layers with optimally matched lay lengths
- Fleece wrapping between stranded layers, foil wrapping over the outer layer
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Fleece wrapping
- Outer sheath: Special-PVC acc. to UL-Std. 758 (AWM) Style 21179, CSA-Std. C22.2 No. 210
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: UV radiation, weathering effects
- largely resistant to: acids, alkalis, at room temperature

- low adhesion
- for outdoor use
- suitable for use in drag chains
- 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
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2
- certifications and approvals: EAC

APPLICATION

For installation in dry, damp and wet rooms as well as outdoors; for applications involving free movement, no tensile stress and no forced movement guidance. Suitable for frequent lifting and bending stresses in machine and tool construction and on permanently moving machine parts. 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 factor per km	Weight kg/km, approx.
89950	3 G 0.5	20	6.5	42.0	62.0
89951	4 G 0.5	20	7.0	47.0	73.0
89952	5 G 0.5	20	7.5	56.0	85.0
89953	7 G 0.5	20	8.5	69.0	111.0
89954	9 G 0.5	20	9.6	88.0	125.0
89955	12 G 0.5	20	10.0	108.0	157.0
89956	15 G 0.5	20	11.2	122.0	205.0
89957	18 G 0.5	20	11.9	145.0	227.0
89958	25 G 0.5	20	14.4	220.0	307.0
89959	3 G 1	18	7.4	60.0	84.0
89960	4 G 1	18	7.9	71.0	95.0
89961	5 G 1	18	8.6	88.0	113.0
89962	7 G 1	18	9.9	111.0	157.0
89963	9 G 1	18	11.4	138.0	219.0
89964	12 G 1	18	12.1	184.0	242.0
89965	15 G 1	18	13.7	202.0	337.0
89966	18 G 1	18	14.3	260.0	380.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
89967	25 G 1	18	17.4	349.0	475.0
89968	34 G 1	18	19.6	434.0	648.0
89969	3 G 1.5	16	8.0	80.0	106.0
89970	4 G 1.5	16	8.7	97.0	129.0
89971	5 G 1.5	16	9.4	119.0	159.0
89972	7 G 1.5	16	11.1	147.0	213.0
89973	9 G 1.5	16	12.8	189.0	254.0
89974	12 G 1.5	16	13.7	267.0	330.0
89975	18 G 1.5	16	16.2	374.0	504.0
89976	25 G 1.5	16	19.9	526.0	679.0
89977	34 G 1.5	16	22.1	638.0	870.0
89984	3 G 2.5	14	9.3	129.0	167.0
89978	4 G 2.5	14	10.3	148.0	186.0
89985	5 G 2.5	14	11.2	181.0	233.0
89979	7 G 2.5	14	13.7	255.0	344.0
89986	12 G 2.5	14	16.6	368.0	545.0
89980	18 G 2.5	14	19.8	570.0	681.0

Continued on next page

HELUCHAIN® JZ-602-HF-C PVC UL/CSA



EMC-preferred type

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
89987	3 G 4	12	10.8	174.0	218.0
89981	4 G 4	12	12.0	230.0	275.0
89988	5 G 4	12	13.2	273.0	368.0
89982	7 G 4	12	15.9	316.0	477.0
89983	4 G 6	10	13.8	305.0	417.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
89989	4 G 10	8	17.6	490.0	703.0
89990	4 G 16	6	20.6	740.0	1052.0
89991	4 G 25	4	25.6	1140.0	1487.0
89992	4 G 35	2	31.7	1576.0	2177.0