

JZ-HF-FCY / OZ-HF-FCY

oil resistant, EMC-preferred type



HELUKABEL® JZ-HF-FCY 7G2,5 QMM (14 AWG)7C E 170315 CSA AWM Style 2570 CE

TECHNICAL DATA

PVC drag chain cable acc. to UL-Std. 758 (AWM) Style 2570, 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	VDE AC U ₀ /U 300/500 V UL (AWM) AC 1000 V
Test voltage core/core	4000 V
Breakdown voltage	8000 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, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: Special-PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T12), UL-Std. 1581
- 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, in the outer layer, x = without protective conductor (OZ)
- Cores stranded in layers with optimally matched lay lengths
- Foil wrapping over each stranding layer
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: Special-PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM5), UL-Std. 1581
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

- resistant to: oil
- low adhesion
- 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 FT 1
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- certifications and approvals: EAC

APPLICATION

UL/CSA approved, highly flexible PVC drag chain cable for installation in dry, damp and wet rooms with free movement, without tensile stress and without forced motion control. Suitable for frequent lifting and bending stress in machine and tool construction. Due to the high screening density, interference-free transmission of signals or pulses is ensured. 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.
12908	2 x 0.5	20	6.0	35.0	46.0
12909	3 G 0.5	20	6.3	42.0	56.0
12910	4 G 0.5	20	6.8	47.0	64.0
12911	5 G 0.5	20	7.4	56.0	77.0
12912	7 G 0.5	20	8.5	69.0	104.0
12913	12 G 0.5	20	10.1	108.0	158.0
12914	18 G 0.5	20	11.7	145.0	229.0
12915	25 G 0.5	20	14.0	240.0	320.0
12916	2 x 0.75	19	6.4	40.0	59.0
12917	3 G 0.75	19	6.8	52.0	68.0
12918	4 G 0.75	19	7.3	60.0	82.0
12919	5 G 0.75	19	7.9	71.0	101.0
12920	7 G 0.75	19	9.2	91.0	150.0
12921	12 G 0.75	19	11.0	142.0	212.0
12922	18 G 0.75	19	13.0	212.0	305.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
12923	25 G 0.75	19	15.8	281.0	430.0
12924	2 x 1	18	6.8	50.0	71.0
12925	3 G 1	18	7.2	60.0	90.0
12926	4 G 1	18	7.8	71.0	114.0
12927	5 G 1	18	8.4	88.0	136.0
12928	7 G 1	18	9.8	111.0	169.0
12929	12 G 1	18	12.0	184.0	270.0
12930	18 G 1	18	14.2	260.0	385.0
12931	25 G 1	18	16.8	349.0	530.0
12932	2 x 1.5	16	7.3	63.0	88.0
12933	3 G 1.5	16	7.7	80.0	104.0
12934	4 G 1.5	16	8.4	97.0	136.0
12935	5 G 1.5	16	9.1	119.0	170.0
12936	7 G 1.5	16	10.7	147.0	221.0
12937	12 G 1.5	16	13.0	267.0	348.0

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12938	18 G 1.5	16	15.5	374.0	489.0
12939	25 G 1.5	16	18.7	526.0	710.0
12940	3 G 2.5	14	9.1	144.0	177.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
12941	4 G 2.5	14	9.9	148.0	204.0
12942	7 G 2.5	14	13.0	255.0	340.0
12943	4 G 4	12	11.2	230.0	310.0

14.03.2023 / We reserve the right to make technical changes; the imprint in the image is purely exemplary