JZ-HF-CY / OZ-HF-CY

oil resistant, with inner sheath, EMC-preferred type



TECHNICAL DATA

PVC drag chain cable, in alignment with DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	flexible -10°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U_0/U 300/500 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, extra finely stranded acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Core insulation: PVC, compound type Z 7225
- 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
- Fleece wrapping over each stranding layer
- Inner sheath: PVC
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: oil-resistant special PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM5)
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

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

APPLICATION

Used for installation in dry and damp rooms, but not outdoors. With free movement, without tensile stress and without forced motion control capabilities, these cables have proven their reliable performance in standard drag chain applications, automatic handling machines, robots and permanently moving machine parts. These screened cables have been developed for interference-free data signal transmission for all areas in electronics, measurement and control technology. Also available in paired version. 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
- cleanroom qualification tested on analog types; please note "cleanroom qualification" in your order
- 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. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
15930	2 x 0.5	20	7.1	30.0	90.0
15931	3 G 0.5	20	7.4	38.0	115.0
15932	4 G 0.5	20	8.1	48.0	140.0
15933	5 G 0.5	20	8.6	64.0	168.0
15934	7 G 0.5	20	10.0	70.0	217.0
15935	12 G 0.5	20	11.5	100.0	274.0
15876	14 G 0.5	20	12.2	135.0	332.0
15877	16 G 0.5	20	12.9	145.0	388.0
15936	18 G 0.5	20	13.8	154.0	445.0
15937	20 G 0.5	20	14.3	160.0	497.0
15878	21 G 0.5	20	14.9	175.0	500.0
15938	25 G 0.5	20	16.5	240.0	505.0
15879	30 G 0.5	20	16.8	280.0	515.0
15880	34 G 0.5	20	17.9	290.0	530.0
15881	36 G 0.5	20	17.9	300.0	572.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
15882	42 G 0.5	20	19.4	330.0	605.0
15883	50 G 0.5	20	21.1	393.0	742.0
15945	2 x 0.75	19	7.8	39.0	105.0
15946	3 G 0.75	19	8.1	49.0	128.0
15947	4 G 0.75	19	8.7	60.0	184.0
15948	5 G 0.75	19	9.4	70.0	200.0
15949	7 G 0.75	19	10.9	95.0	269.0
15885	10 G 0.75	19	12.7	110.0	327.0
15950	12 G 0.75	19	12.7	140.0	366.0
15886	14 G 0.75	19	13.7	163.0	426.0
15887	16 G 0.75	19	14.4	187.0	487.0
15951	18 G 0.75	19	15.0	211.0	547.0
15888	20 G 0.75	19	15.9	216.0	551.0
15889	21 G 0.75	19	16.5	272.0	590.0
15952	25 G 0.75	19	18.1	322.0	600.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
15890	30 G 0.75	19	18.5	414.0	650.0
15891	34 G 0.75	19	20.0	473.0	685.0
15892	36 G 0.75	19	20.0	500.0	720.0
15893	42 G 0.75	19	21.6	583.0	800.0
15894	50 G 0.75	19	23.3	695.0	954.0
15961	2 x 1	18	8.1	50.0	115.0
15962	3 G 1	18	8.5	60.0	142.0
15963	4 G 1	18	9.2	73.0	196.0
15964	5 G 1	18	9.9	81.0	271.0
15965	7 G 1	18	11.4	114.0	307.0
15966	12 G 1	18	13.8	186.0	474.0
15967	18 G 1	18	16.0	254.0	622.0
15968	25 G 1	18	19.5	365.0	828.0
15969	34 G 1	18	21.3	500.0	1049.0
15970	41 G 1	18	22.8	576.0	1257.0
15971	50 G 1	18	25.0	681.0	1437.0
15972	65 G 1	18	28.1	932.0	1823.0
15976	2 x 1.5	16	8.7	64.0	170.0
15977	3 G 1.5	16	9.1	84.0	203.0
15978	4 G 1.5	16	10.0	99.0	243.0
15979	5 G 1.5	16	10.7	120.0	288.0
15980	7 G 1.5	16	12.8	148.0	403.0
15981	12 G 1.5	16	15.4	274.0	592.0
15982	18 G 1.5	16	17.7	386.0	844.0
15983	25 G 1.5	16	21.8	584.0	1155.0
15152	41 G 1.5	16	25.9	867.0	1227.0
15153	50 G 1.5	16	28.0	970.0	1445.0
15154	61 G 1.5	16	30.9	1028.0	1724.0
15925	3 G 2.5	14	11.1	140.0	215.0
15926	4 G 2.5	14	11.8	159.0	264.0
15927	5 G 2.5	14	13.3	194.0	344.0
15928	7 G 2.5	14	15.6	234.0	410.0
15929	12 G 2.5	14	18.6	390.0	721.0
15155	3 G 4	12	13.0	178.0	292.0
15156	4 G 4	12	14.4	222.0	372.0
15157	5 G 4	12	15.7	328.0	448.0
15158	4 G 6	10	16.0	305.0	526.0
15159	5 G 6	10	17.5	441.0	632.0
15160	4 G 10	8	21.1	485.0	838.0
15161	5 G 10	8	23.0	610.0	998.0
15162	4 G 16	6	24.1	840.0	1225.0
15163	5 G 16	6	27.0	1050.0	1560.0

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