

U.I. Lapp GmbH	PRODUCT INFORMATION	
	X07Z-K 110°C	12.09.2012

Halogen-free to protect human life, the environment and valuable assets; high temperature resistance
Protection of human life and the environment thanks to the avoidance of the formation of acid in case of fire



Info

Formerly: H07Z-K 110°C

Halogen-free

Maximum conductor temperature: +110 °C

Application range

For wiring of lamps, devices, switchgear cabinets and distribution boxes

For installation in tubes, on, in and under plaster as well as in closed installation ducts

In building with a high density of people or valuable assets

For use in dry rooms

Design

Fine-wire strand made of bare copper wires

Core insulation: Halogen-free

Approvals (Norm references)

110°C version is not harmonised (no HAR sign), but is VDE-tested and VDE-marked

Product features

The insulation material is halogen-free and free of other materials which could release toxic gases in the event of fire

Low amount of corrosive gases in the event of fire

Low smokes/low smoke density in the event of fire according to IEC 61034

Flame-retardant according to IEC 60332-1-2

Bundled fire test (fire propagation) according to IEC 60332-3-24/EN 50266-2-4/EN 60332-3-24/VDE 0482-266-2-4/VDE 0482-332-3-24 (category C)

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Packaging size: Coil ≤ 30 kg, otherwise drum

Photographs are not to scale and do not represent detailed images of the respective products.

*for conventional use, **for careful bending; "OD" = outer diameter

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Technical Data

Based on:	HD 22.9/VDE 0282-9
Conductor stranding:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
Minimum bending radius:	OD ≤ 8 mm: 4 x OD*/2 x OD** 8 < OD ≤ 12 mm: 5 x OD*/3 x OD** OD > 12 mm: 6 x OD*/4 x OD**
Nominal voltage:	U ₀ /U: 450/750 V
Test voltage:	2500 V AC
Current rating:	VDE 0298-4 HD 516/VDE 0298-300
Temperature range:	Fixed installation: -40°C to +110°C

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Part number	Conductor cross-section (mm ²)	Outer diameter (mm)	Core colour	m/ring	Copper index (kg/km)	Weight (kg/km)
4720021	1.5	3.5	blue	100	14.4	20
4720031	1.5	3.5	brown	100	14.4	20
4720141	1.5	3.5	Dark blue	100	14.4	20
4720111	1.5	3.5	yellow	100	14.4	20
4720061	1.5	3.5	grey	100	14.4	20
4720121	1.5	3.5	green	100	14.4	20
4720001	1.5	3.5	Green/yellow	100	14.4	20
4720091	1.5	3.5	orange	100	14.4	20
4720081	1.5	3.5	Pink	100	14.4	20
4720041	1.5	3.5	red	100	14.4	20
4720011	1.5	3.5	black	100	14.4	20
4720071	1.5	3.5	violet	100	14.4	20
4720051	1.5	3.5	white	100	14.4	20
4720022	2.5	4.3	blue	100	24.0	30
4720032	2.5	4.3	brown	100	24.0	30
4720142	2.5	4.3	Dark blue	100	24.0	30
4720112	2.5	4.3	yellow	100	24.0	30
4720062	2.5	4.3	grey	100	24.0	30
4720122	2.5	4.3	green	100	24.0	30
4720002	2.5	4.3	Green/yellow	100	24.0	30
4720092	2.5	4.3	orange	100	24.0	30
4720082	2.5	4.3	Pink	100	24.0	30
4720042	2.5	4.3	red	100	24.0	30
4720012	2.5	4.3	black	100	24.0	30
4720072	2.5	4.3	violet	100	24.0	30
4720052	2.5	4.3	white	100	24.0	30
4720023	4	4.9	blue	100	38.4	45
4720033	4	4.9	brown	100	38.4	45
4720143	4	4.9	Dark blue	100	38.4	45
4720063	4	4.9	grey	100	38.4	45
4720123	4	4.9	green	100	38.4	45
4720003	4	4.9	Green/yellow	100	38.4	45
4720093	4	4.9	orange	100	38.4	45
4720043	4	4.9	red	100	38.4	45

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Part number	Conductor cross-section (mm ²)	Outer diameter (mm)	Core colour	m/ring	Copper index (kg/km)	Weight (kg/km)
4720013	4	4.9	black	100	38.4	45
4720073	4	4.9	violet	100	38.4	45
4720053	4	4.9	white	100	38.4	45
4720024	6	5.5	blue	100	57.6	65
4720034	6	5.5	brown	100	57.6	65
4720144	6	5.5	Dark blue	100	57.6	65
4720114	6	5.5	yellow	100	57.6	65
4720064	6	5.5	grey	100	57.6	65
4720124	6	5.5	green	100	57.6	65
4720004	6	5.5	Green/yellow	100	57.6	65
4720094	6	5.5	orange	100	57.6	65
4720084	6	5.5	Pink	100	57.6	65
4720044	6	5.5	red	100	57.6	65
4720014	6	5.5	black	100	57.6	65
4720054	6	5.5	white	100	57.6	65
4720025	10	7.1	blue	100	96.0	110
4720035	10	7.1	brown	100	96.0	110
4720145	10	7.1	Dark blue	100	96.0	110
4720065	10	7.1	grey	100	96.0	110
4720005	10	7.1	Green/yellow	100	96.0	110
4720095	10	7.1	orange	100	96.0	110
4720085	10	7.1	Pink	100	96.0	110
4720045	10	7.1	red	100	96.0	110
4720015	10	7.1	black	100	96.0	110
4720055	10	7.1	white	100	96.0	110
4720026	16	8.4	blue	100	153.6	170
4720036	16	8.4	brown	100	153.6	170
4720146	16	8.4	Dark blue	100	153.6	170
4720066	16	8.4	grey	100	153.6	170
4720006	16	8.4	Green/yellow	100	153.6	170
4720086	16	8.4	Pink	100	153.6	170
4720046	16	8.4	red	100	153.6	170
4720016	16	8.4	black	100	153.6	170
4720056	16	8.4	white	100	153.6	170

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Part number	Conductor cross-section (mm ²)	Outer diameter (mm)	Core colour	m/ring	Copper index (kg/km)	Weight (kg/km)
4720027	25	10.6	blue	100	240.0	290
4720007	25	10.6	Green/yellow	100	240.0	290
4720087	25	10.6	Pink	100	240.0	290
4720047	25	10.6	red	100	240.0	290
4720017	25	10.6	black	100	240.0	290
4720028	35	12.1	blue		336.0	400
4720008	35	12.1	Green/yellow		336.0	400
4720088	35	12.1	Pink		336.0	400
4720048	35	12.1	red		336.0	400
4720018	35	12.1	black		336.0	400
4720009	50	14.4	Green/yellow		480.0	550
4720089	50	14.4	Pink		480.0	550
4720019	50	14.4	black		480.0	550
4721001	70	16.6	Green/yellow		672.0	770
4721081	70	16.6	Pink		672.0	770
4721011	70	16.6	black		672.0	770
4721082	95	18.8	Pink		912.0	1160
4721012	95	18.8	black		912.0	1160
4720096	16	8.4	orange	100	153.6	170
4720097	25	10.6	orange	100	240.0	290
4720098	35	12.1	orange		336.0	400
4720099	50	14.4	orange		480.0	550
4721091	70	16.6	orange		672.0	770
4721092	95	18.8	orange		912.0	1160

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