

Halogen-free for the protection of human life, environment and material assets; increased temperature resistance

Product Description

Protection of human life and the environment thanks to the avoidance of the formation of acid in case of fire



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 buildings with a high concentration of people or valuables
- For use in dry rooms

Benefits

- Protection of human life and the environment thanks to the avoidance of the formation of acid in case of fire

Design

- Fine strands of bare copper wires
- Core insulation: Halogen-free

Approvals (Norm references)

- 110°C version isn't harmonised (no HAR sign), but VDE-tested and VDE-marked



Product features

- The insulation material is halogen-free and free of other materials which could release corrosive gases in the event of fire
- Flame retardant according to IEC 60332-1-2
- Bundle flame test (flame 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
- Low corrosivity of the gases in case of fire
- Low smokes

Technical Data

Based on

HD 22.9

Conductor stranding

Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5

Minimum bending radius

OD ≤ 8mm: 4 x OD*/2 x OD**

8 < OD ≤ 12mm: 5 x OD*/3 x OD**

OD > 12mm: 6 x OD*/4 x OD**

Rated voltage

U0/U: 450/750 V

Test voltage

2500 V AC

Current rating

VDE 0298-4

HD 516

Range of temperature

Fixed installation: -40°C up to +110°C

Article List

Part number	Conductor cross section in mm ²	Outer diameter in mm	Wire colour	m/Coil	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	greenyellow	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	purple	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	greenyellow	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	purple	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	greenyellow	100	38.4	45
4720093	4	4.9	orange	100	38.4	45
4720043	4	4.9	red	100	38.4	45
4720013	4	4.9	black	100	38.4	45
4720073	4	4.9	purple	100	38.4	45
4720053	4	4.9	white	100	38.4	45
4720024	6	5.5	blue	100	58.0	65
4720034	6	5.5	brown	100	58.0	65
4720144	6	5.5	dark-blue	100	58.0	65
4720114	6	5.5	yellow	100	58.0	65
4720064	6	5.5	grey	100	58.0	65
4720124	6	5.5	green	100	58.0	65
4720004	6	5.5	greenyellow	100	58.0	65
4720094	6	5.5	orange	100	58.0	65
4720084	6	5.5	Pink	100	58.0	65
4720044	6	5.5	red	100	58.0	65
4720014	6	5.5	black	100	58.0	65
4720054	6	5.5	white	100	58.0	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	greenyellow	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	154.0	170
4720036	16	8.4	brown	100	154.0	170
4720146	16	8.4	dark-blue	100	154.0	170
4720066	16	8.4	grey	100	154.0	170
4720006	16	8.4	greenyellow	100	154.0	170
4720086	16	8.4	Pink	100	154.0	170
4720046	16	8.4	red	100	154.0	170
4720016	16	8.4	black	100	154.0	170
4720056	16	8.4	white	100	154.0	170
4720027	25	10.6	blue	100	240.0	290
4720007	25	10.6	greenyellow	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	greenyellow		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	greenyellow		480.0	550
4720089	50	14.4	Pink		480.0	550
4720019	50	14.4	black		480.0	550
4721001	70	16.6	greenyellow		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	154.0	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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Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Packaging size: Coil ≤ 30 kg, otherwise drum

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

*at conventional usage, **at cautious bending; "OD" = outer diameter