

H07V2-K

PVC-Single-Core, 90°C, heat-resistant



TECHNICAL DATA

Special PVC single core with increased heat-resistance according to DIN VDE 0281 part 7 and HD 21.7 S2

Temperature range flexible -5°C to +90°C
fixed -40°C to +90°C

short circuit allowable temperature

+160°C

Test voltage 10.000 V

Nominal voltage U 0/U 300/500 V

Insulation resistance min. 20 MOhm x km

Minimum bending radius 10-15 x Outer-Ø

adiation resistance up to 80x106 cJ/kg (up to 80 Mrad)

CABLE STRUCTURE

- Plain copper conductors to DIN VDE 0295, cl. 5. DIN EN 60228
- Wire marking according to DIN VDE 0281-1, (HD 21.1) numbered according to DIN VDE 0293
- Special heat-resistant core insulation up to +90°C. Heat-resistant TI3 to DIN VDE 0281 part 1 (HD 21.1)

PROPERTIES

- Heat-resistant special PVC compound
- Not to be used in contact with objects higher than 85°C
- PVC self-extinguishing and flame retardant according to DIN EN 60332-1-2

APPLICATION

Therm insulated wires are ideal for use in power current installation, switch cabinets, motors and transformers which are subject to direct contact with high temperatures (e.g. varnishing machines and drying towers etc.). These are also suitable for inside wiring of electrical equipments such as lighting and heating apparatus. = The product is conformed with the EC Low-Voltage Directive 2006/95/EG. fixed installation - 40 °C to + 90 °C short circuit allowable temperature + 160 °C (UV exposure should be avoided)

NOTES

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

cross-sec. mm ²	Outer-ø approx. mm ²	Cu factor per km	Weight approx. kg / km	black (RAL 9005)	green-yellow	blue (RAL 5015)	brown (RAL 8003)	red (RAL 3000)	white (RAL 1013)	grey (RAL 7000)	violet (RAL 4005)
				Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.
1,5	3	14,4	19	309001501	309001502	309001503	309001504	309001505	309001506	309001507	309001508
2,5	3,6	24	30	309002501	309002502	309002503	309002504	309002505	309002506	309002507	309002508
4	4,3	38,4	45	309004001	309004002	309004003	309004004	309004005	309004006	309004007	309004008
6	4,8	58	63	309006001	309006002	309006003	309006004	309006005	309006006	309006007	309006008
10	6,3	96	110	309010001	309010002	309010003	309010004	309010005	309010006	309010007	309010008
16	7,4	154	165	309016001	309016002	309016003	309016004	309016005	309016006	309016007	309016008
25	9,1	240	255	309025001	309025002	309025003	309025004	309025005	309025006	309025007	309025008
35	10,3	336	345	309035001	309035002	309035003	309035004	309035005	309035006	309035007	309035008
50	12,7	480	490	309050001	309050002	309050003	309050004	309050005	309050006	309050007	309050008
70	15,6	672	684	309070001	309070002	309070003	309070004	309070005	309070006	309070007	309070008
95	16,7	912	927	309095001	309095002	309095003	309095004	309095005	309095006	309095007	309095008
120	18,5	1115	1139	309120001	309120002	309120003	309120004	309120005	309120006	309120007	309120008
150	20,4	1440	1468	309150001	309150002	309150003	309150004	309150005	309150006	309150007	309150008
185	22,8	1776	1804	309185001	309185002	309185003	309185004	309185005	309185006	309185007	309185008
240	26,0	2304	2342	309240001	309240002	309240003	309240004	309240005	309240006	309240007	309240008

cross-sec. mm ²	Outer-ø approx. mm ²	Cu factor per km	Weight approx. kg / km	yellow (RAL 1021)	pink (RAL 3015)	green (RAL 6018)	transparent	dark blue (RAL 5010)	orange (RAL 2003)	white-red	blue-white
				Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.
1,5	3	14,4	19	309001509	309001510	309001511	309001512	309001513	309001514	309001521	309001522

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cross-sec. mm ²	Outer-ø approx. mm ²	Cu factor per km	Weight approx. kg / km	yellow (RAL 1021)	pink (RAL 3015)	green (RAL 6018)	transparent	dark blue (RAL 5010)	orange (RAL 2003)	white-red	blue-white
				Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.	Art.-Nr.
2,5	3,6	24	30	309002509	309002510	309002511	309002512	309002513	309002514	309002521	309002522
4	4,3	38,4	45	309004009	309004010	309004011	309004012	309004013	309004014	309004021	309004022
6	4,8	58	63	309006009	309006010	309006011	309006012	309006013	309006014	309006021	309006022
10	6,3	96	110	309010009	309010010	309010011	309010012	309010013	309010014	309010021	309010022
16	7,4	154	165	309016009	309016010	309016011	309016012	309016013	309016014	309016021	309016022
25	9,1	240	255	309025009	309025010	309025011	309025012	309025013	309025014	309025021	309025022
35	10,3	336	345	309035009	309035010	309035011	309035012	309035013	309035014	309035021	309035022
50	12,7	480	490	309050009	309050010	309050011	309050012	309050013	309050014	309050021	309050022
70	15,6	672	684	309070009	309070010	309070011	309070012	309070013	309070014	309070021	309070022
95	16,7	912	927	309095009	309095010	309095011	309095012	309095013	309095014	309095021	309095022
120	18,5	1115	1139	309120009	309120010	309120011	309120012	309120013	309120014	309120021	309120022
150	20,4	1440	1468	309150009	309150010	309150011	309150012	309150013	309150014	309150021	309150022
185	22,8	1776	1804	309185009	309185010	309185011	309185012	309185013	309185014	309185021	309185022
240	26,0	2304	2342	309240009	309240010	309240011	309240012	309240013	309240014	309240021	309240022

cross-sec. mm ²	Outer-ø approx. mm ²	Cu factor per km	Weight approx. kg / km	brown-white	dark blue-white
				Art.-Nr.	Art.-Nr.
1,5	3	14,4	19	309001523	309001524
2,5	3,6	24	30	309002523	309002524
4	4,3	38,4	45	309004023	309004024
6	4,8	58	63	309006023	309006024
10	6,3	96	110	309010023	309010024
16	7,4	154	165	309016023	309016024
25	9,1	240	255	309025023	309025024
35	10,3	336	345	309035023	309035024
50	12,7	480	490	309050023	309050024
70	15,6	672	684	309070023	309070024
95	16,7	912	927	309095023	309095024
120	18,5	1115	1139	309120023	309120024
150	20,4	1440	1468	309150023	309150024
185	22,8	1776	1804	309185023	309185024
240	26,0	2304	2342	309240023	309240024