

H07V-K / 07V-K

PVC single core, finely stranded



TECHNICAL DATA

PVC single core, H07V-K acc. to DIN VDE 0285-525-2-31 / DIN EN 50525-2-31, IEC 60227-3; 07V-K in alignment with DIN VDE 0285-525-2-31 / DIN EN 50525-2-31, IEC 60227-3

Temperature range	flexible +5°C to +70°C fixed -30°C to +80°C
Nominal voltage	AC U ₀ /U 450/750 V
Test voltage	2500 V
Minimum bending radius	fixed <8 mm: 4x Outer-ø 8-12 mm: 5x Outer-ø >12 mm: 6x Outer-ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T11)
- Core identification: see table

PROPERTIES

- 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

APPLICATION

Installation in electrical conduits, on or under plaster or similar enclosed systems. Suitable for protected and fixed installation in lighting systems or switching and control devices up to and including 1000 V AC voltage or up to 750 V DC voltage against earth. Not suitable for direct laying in cable ladders and cable trays, except as a potential equalization cable.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- Approved core colours: black, green-yellow, blue, brown, red, white, grey, violet, orange, pink

H07V-K Coil in cardboard box (100m)

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black (RAL 9005) Part no.	green-yellow Part no.	blue (RAL 5015) Part no.	brown (RAL 8003) Part no.	red (RAL 3000) Part no.	white (RAL 9003) Part no.	grey (RAL 7001) Part no.	violet (RAL 4005) Part no.	orange (RAL 2003) Part no.
1.5	16	2.8 - 3.4	14.4	29129	29130	29131	29132	29133	29134	29135	29136	29142
2.5	14	3.4 - 4.1	24.0	29145	29146	29147	29148	29149	29150	29151	29152	29158
4	12	3.9 - 4.8	38.0	29161	29162	29163	29164	29165	29166	29167	29168	29174
6	10	4.4 - 5.3	58.0	29177	29178	29179	29180	29181	29182	29183	29184	29190

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	dark blue (RAL 5010) Part no.	pink (RAL 3015) Part no.	ultram.blue (RAL 5002) Part no.
1.5	16	2.8 - 3.4	14.4	29141	29138	26395
2.5	14	3.4 - 4.1	24.0	29157	29154	26396
4	12	3.9 - 4.8	38.0	29173	29170	26397
6	10	4.4 - 5.3	58.0	29189	29186	26398

H07V-K / 07V-K

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07V-K Coil in cardboard box (100m)

										
Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	yellow (RAL 1021) Part no.	green (RAL 6018) Part no.	transparent Part no.	blue-white Part no.	brown-white Part no.	dark blue-white Part no.	red-white Part no.
1.5	16	2.8 - 3.4	14.4	29137	29139	29140	29378	29383	29397	29373
2.5	14	3.4 - 4.1	24.0	29153	29155	29156	29379	29384	29398	29374
4	12	3.9 - 4.8	38.0	29169	29171	29172	29386	29387	29399	29385
6	10	4.4 - 5.3	58.0	29185	29187	29188	29389	29390	29527	29388
10	8	5.7 - 6.8	96.0	-	-	-	29392	29393	29528	29391

H07V-K Coil (100m)

												
Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black (RAL 9005) Part no.	green-yellow Part no.	blue (RAL 5015) Part no.	brown (RAL 8003) Part no.	red (RAL 3000) Part no.	white (RAL 9003) Part no.	grey (RAL 7001) Part no.	violet (RAL 4005) Part no.	orange (RAL 2003) Part no.
1.5	16	2.8 - 3.4	14.4	26060	26061	26062	26063	26064	26065	26066	26067	26109
2.5	14	3.4 - 4.1	24.0	26112	26113	26114	26115	26116	26117	26118	26119	29890
4	12	3.9 - 4.8	38.0	29893	29894	29895	29896	29897	29898	29899	29905	29911
6	10	4.4 - 5.3	58.0	29914	29915	29916	29917	29918	29919	29921	29922	29928
10	8	5.7 - 6.8	96.0	29193	29194	29195	29196	29197	29198	29199	29200	29206
16	6	6.7 - 8.1	154.0	29209	29210	29211	29212	29213	29214	29215	29216	29222
25	4	8.4 - 10.2	240.0	29225	29226	29227	29228	29229	29230	29231	29232	29238
35	2	9.7 - 11.7	336.0	29241	29242	29243	29244	29245	29246	29247	29248	29254
50	1	11.5 - 13.9	480.0	29257	29258	29259	29260	29261	29262	29263	29264	29270
70	2/0	13.2 - 16.0	672.0	29273	29274	29275	29276	29277	29278	29279	29280	29286
95	3/0	15.1 - 18.2	912.0	29289	29290	29291	29292	29293	29294	29295	29296	29302
120	4/0	16.7 - 20.2	1152.0	29418	29419	29420	29421	29422	29423	29424	29425	29431
150	300 kcmil	18.6 - 22.5	1440.0	29434	29435	29436	29437	29438	29439	29440	29441	29447
185	350 kcmil	20.6 - 24.9	1776.0	29494	29495	29496	29497	29498	29499	29590	29591	29597
240	500 kcmil	23.5 - 28.4	2304.0	29813	29814	29815	29816	29817	29818	29819	29840	29846

						
Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	dark blue (RAL 5010) Part no.	pink (RAL 3015) Part no.	ultram. blue (RAL 5002) Part no.
1.5	16	2.8 - 3.4	14.4	26108	26069	26821
2.5	14	3.4 - 4.1	24.0	29859	29856	26822
4	12	3.9 - 4.8	38.0	29910	29907	26823
6	10	4.4 - 5.3	58.0	29927	29924	26824
10	8	5.7 - 6.8	96.0	29205	29202	-
16	6	6.7 - 8.1	154.0	29221	29218	-
25	4	8.4 - 10.2	240.0	29237	29234	-
35	2	9.7 - 11.7	336.0	29253	29250	-
50	1	11.5 - 13.9	480.0	29269	29266	-
70	2/0	13.2 - 16.0	672.0	29285	29282	-
95	3/0	15.1 - 18.2	912.0	29301	29298	-
120	4/0	16.7 - 20.2	1152.0	29430	29427	-
150	300 kcmil	18.6 - 22.5	1440.0	29446	29443	-
185	350 kcmil	20.6 - 24.9	1776.0	29596	29593	-
240	500 kcmil	23.5 - 28.4	2304.0	29845	29842	-

07V-K Coil (100m)

												
Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	yellow (RAL 1021) Part no.	green (RAL 6018) Part no.	transparent Part no.	blue-red Part no.	brown-green Part no.	brown-black Part no.	yellow-red Part no.	yellow-white Part no.	grey-black Part no.
1.5	16	2.8 - 3.4	14.4	26068	26092	26099	11019808	11020486	11021051	11020494	11019080	11019081

Continued on next page

H07V-K / 07V-K

PVC single core, finely stranded



Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	yellow (RAL 1021)	green (RAL 6018)	transparent	blue-red	brown-green	brown-black	yellow-red	yellow-white	grey-black
				Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
2.5	14	3.4 - 4.1	24.0	29855	29857	29858	11020535	-	11020181	-	11019088	11019804
4	12	3.9 - 4.8	38.0	29906	29908	29909	11019583	-	-	-	-	11020104
6	10	4.4 - 5.3	58.0	29923	29925	29926	-	-	-	-	-	-
10	8	5.7 - 6.8	96.0	29201	29203	29204	-	-	-	-	-	-
16	6	6.7 - 8.1	154.0	29217	29219	29220	-	-	-	-	-	-
25	4	8.4 - 10.2	240.0	29233	29235	29236	-	-	-	-	-	-
35	2	9.7 - 11.7	336.0	29249	29251	29252	-	-	-	-	-	-
50	1	11.5 - 13.9	480.0	29265	29267	29268	-	-	-	-	-	-
70	2/0	13.2 - 16.0	672.0	29281	29283	29284	-	-	-	-	-	-
95	3/0	15.1 - 18.2	912.0	29297	29299	29300	-	-	-	-	-	-
120	4/0	16.7 - 20.2	1152.0	29426	29428	29429	-	-	-	-	-	-
150	300 kcmil	18.6 - 22.5	1440.0	29442	29444	29445	-	-	-	-	-	-
185	350 kcmil	20.6 - 24.9	1776.0	29592	29594	29595	-	-	-	-	-	-
240	500 kcmil	23.5 - 28.4	2304.0	29841	29843	29844	-	-	-	-	-	-

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	grey-white	green-brown	green-white	pink-white	red-blue	red-yellow	red-black	black-green	black-red
				Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
1.5	16	2.8 - 3.4	14.4	11019082	11020487	11020250	11020281	11020563	11020493	11019084	11019085	-
2.5	14	3.4 - 4.1	24.0	11019584	-	11020252	-	11020534	-	11019090	-	11019091
4	12	3.9 - 4.8	38.0	-	-	-	11020162	11020538	-	11020256	-	11019094
6	10	4.4 - 5.3	58.0	11020240	-	-	-	-	-	-	-	-

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black-white	orange-white	violet-black	violet-white	white-blue	white-brown	white-grey	white-green	white-red
				Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
1.5	16	2.8 - 3.4	14.4	11019930	11019083	-	11019086	11020515	11020491	11019586	11020490	11020488
2.5	14	3.4 - 4.1	24.0	11019894	11019089	11020475	11019092	-	-	11019587	-	-
4	12	3.9 - 4.8	38.0	11020517	11020735	-	11020424	-	-	-	-	-

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	white-black
				Part no.
1.5	16	2.8 - 3.4	14.4	11019087
2.5	14	3.4 - 4.1	24.0	11019093

H07V-K Barrel

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black (RAL 9005)	green-yellow	blue (RAL 5015)	brown (RAL 8003)	red (RAL 3000)	white (RAL 9003)	grey (RAL 7001)	violet (RAL 4005)	orange (RAL 2003)
				Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
1.5	16	2.8 - 3.4	14.4	26755	26756	26757	26758	26759	26760	26761	26762	26768
2.5	14	3.4 - 4.1	24.0	26771	26772	26773	26774	26775	26776	26777	26778	26784
4	12	3.9 - 4.8	38.0	26787	26788	26789	26790	26791	26792	26793	26794	26800
6	10	4.4 - 5.3	58.0	26803	26804	26805	26806	26807	26808	26809	26810	26816

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Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	dark blue (RAL 5010) Part no.	pink (RAL 3015) Part no.	ultram.blue (RAL 5002) Part no.
1.5	16	2.8 - 3.4	14.4	26767	26764	26403
2.5	14	3.4 - 4.1	24.0	26783	26780	26404
4	12	3.9 - 4.8	38.0	26799	26796	26819
6	10	4.4 - 5.3	58.0	26815	26812	26820

07V-K Barrel

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	yellow (RAL 1021) Part no.	green (RAL 6018) Part no.	transparent Part no.	blue-white Part no.	brown-white Part no.	dark blue-white Part no.	red-white Part no.
1.5	16	2.8 - 3.4	14.4	26763	26765	26766	28961	28962	28963	28960
2.5	14	3.4 - 4.1	24.0	26779	26781	26782	28965	28966	28967	28964
4	12	3.9 - 4.8	38.0	26795	26797	26798	28969	28970	28971	28968
6	10	4.4 - 5.3	58.0	26811	26813	26814	28973	28974	28975	28972
10	8	5.7 - 6.8	96.0	-	-	-	28977	28978	28979	28976

H07V-K Spool

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black (RAL 9005) Part no.	green-yellow Part no.	blue (RAL 5015) Part no.	brown (RAL 8003) Part no.	red (RAL 3000) Part no.	white (RAL 9003) Part no.	grey (RAL 7001) Part no.	violet (RAL 4005) Part no.	orange (RAL 2003) Part no.
1.5	16	2.8 - 3.4	14.4	26690	26691	26692	26693	26694	26695	26696	26697	26703
2.5	14	3.4 - 4.1	24.0	26706	26707	26708	26709	26710	26711	26712	26713	26719
4	12	3.9 - 4.8	38.0	26722	26723	26724	26725	26726	26727	26728	26729	26735
6	10	4.4 - 5.3	58.0	26738	26739	26740	26741	26742	26743	26744	26745	26751

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	dark blue (RAL 5010) Part no.	pink (RAL 3015) Part no.	ultram.blue (RAL 5002) Part no.
1.5	16	2.8 - 3.4	14.4	26702	26699	26399
2.5	14	3.4 - 4.1	24.0	26718	26715	26400
4	12	3.9 - 4.8	38.0	26734	26731	26401
6	10	4.4 - 5.3	58.0	26750	26747	26402

07V-K Spool

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	yellow (RAL 1021) Part no.	green (RAL 6018) Part no.	transparent Part no.	blue-red Part no.	blue-white Part no.	brown-green Part no.	brown-black Part no.	brown-white Part no.	dark blue-white Part no.
1.5	16	2.8 - 3.4	14.4	26698	26700	26701	11020565	29758	11020495	11021052	29759	29760
2.5	14	3.4 - 4.1	24.0	26714	26716	26717	11020537	29762	-	11020182	29763	29764
4	12	3.9 - 4.8	38.0	26730	26732	26733	11020540	29766	-	-	29767	29768
6	10	4.4 - 5.3	58.0	26746	26748	26749	-	29770	-	-	29771	29772
10	8	5.7 - 6.8	96.0	-	-	-	-	29774	-	-	29775	29776

H07V-K / 07V-K

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Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	yellow-red Part no.	grey-black Part no.	grey-white Part no.	green-brown Part no.	green-white Part no.	pink-white Part no.	red-blue Part no.	red-yellow Part no.	red-black Part no.
1.5	16	2.8 - 3.4	14.4	11020502	-	-	11020496	11020251	11020282	11020564	11020501	11020947
2.5	14	3.4 - 4.1	24.0	-	-	11020239	-	11020253	-	11020536	-	-
4	12	3.9 - 4.8	38.0	-	11020105	-	-	-	11020163	11020539	-	11020257
6	10	4.4 - 5.3	58.0	-	-	11020241	-	-	-	-	-	-

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	red-white Part no.	black-white Part no.	orange-white Part no.	violet-black Part no.	violet-white Part no.	white-blue Part no.	white-brown Part no.	white-green Part no.	white-red Part no.
1.5	16	2.8 - 3.4	14.4	29757	11019931	-	-	11020768	11020516	11020500	11020499	11020497
2.5	14	3.4 - 4.1	24.0	29761	-	11019079	11020476	-	-	-	-	-
4	12	3.9 - 4.8	38.0	29765	11020518	11020736	-	11020425	-	-	-	-
6	10	4.4 - 5.3	58.0	29769	-	-	-	-	-	-	-	-
10	8	5.7 - 6.8	96.0	29773	-	-	-	-	-	-	-	-

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	white-black Part no.
1.5	16	2.8 - 3.4	14.4	11020503

H07V-K Drum

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black (RAL 9005) Part no.	green-yellow Part no.	blue (RAL 5015) Part no.	brown (RAL 8003) Part no.	red (RAL 3000) Part no.	white (RAL 9003) Part no.	grey (RAL 7001) Part no.	violet (RAL 4005) Part no.	orange (RAL 2003) Part no.
4	12	3.9 - 4.8	38.0	29560	29561	29562	29563	29564	29565	29566	29567	29573
6	10	4.4 - 5.3	58.0	29574	29575	29576	29577	29578	29579	29580	29581	29587
10	8	5.7 - 6.8	96.0	26825	26826	26827	26828	26829	26830	26831	26832	26838
16	6	6.7 - 8.1	154.0	26841	26842	26843	26844	26845	26846	26847	26848	26854
25	4	8.4 - 10.2	240.0	26857	26858	26859	26860	26861	26862	26863	26864	26870
35	2	9.7 - 11.7	336.0	26873	26874	26875	26876	26877	26878	26879	26880	26886
50	1	11.5 - 13.9	480.0	26889	26890	26891	26892	26893	26894	26895	26896	26902
70	2/0	13.2 - 16.0	672.0	26905	26906	26907	26908	26909	26910	26911	26912	26918
95	3/0	15.1 - 18.2	912.0	26921	26922	26923	26924	26925	26926	26927	26928	26934
120	4/0	16.7 - 20.2	1152.0	29305	29306	29307	29308	29309	29310	29311	29312	29318
150	300 kcmil	18.6 - 22.5	1440.0	29321	29322	29323	29324	29325	29326	29327	29328	29334
185	350 kcmil	20.6 - 24.9	1776.0	29337	29338	29339	29340	29341	29342	29343	29344	29350
240	500 kcmil	23.5 - 28.4	2304.0	29353	29354	29355	29356	29357	29358	29359	29360	29366

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	dark blue (RAL 5010) Part no.	pink (RAL 3015) Part no.
4	12	3.9 - 4.8	38.0	29572	29569
6	10	4.4 - 5.3	58.0	29586	29583
10	8	5.7 - 6.8	96.0	26837	26834
16	6	6.7 - 8.1	154.0	26853	26850
25	4	8.4 - 10.2	240.0	26869	26866
35	2	9.7 - 11.7	336.0	26885	26882
50	1	11.5 - 13.9	480.0	26901	26898
70	2/0	13.2 - 16.0	672.0	26917	26914
95	3/0	15.1 - 18.2	912.0	26933	26930
120	4/0	16.7 - 20.2	1152.0	29317	29314
150	300 kcmil	18.6 - 22.5	1440.0	29333	29330

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H07V-K / 07V-K

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Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	dark blue (RAL 5010)	pink (RAL 3015)
				Part no.	Part no.
185	350 kcmil	20.6 - 24.9	1776.0	29349	29346
240	500 kcmil	23.5 - 28.4	2304.0	29365	29362

07V-K Drum

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black (RAL 9005)	green-yellow	blue (RAL 5015)	brown (RAL 8003)	red (RAL 3000)	white (RAL 9003)	grey (RAL 7001)	violet (RAL 4005)	yellow (RAL 1021)
				Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
4	12	3.9 - 4.8	38.0	-	-	-	-	-	-	-	-	29568
6	10	4.4 - 5.3	58.0	-	-	-	-	-	-	-	-	29582
10	8	5.7 - 6.8	96.0	-	-	-	-	-	-	-	-	26833
16	6	6.7 - 8.1	154.0	-	-	-	-	-	-	-	-	26849
25	4	8.4 - 10.2	240.0	-	-	-	-	-	-	-	-	26865
35	2	9.7 - 11.7	336.0	-	-	-	-	-	-	-	-	26881
50	1	11.5 - 13.9	480.0	-	-	-	-	-	-	-	-	26897
70	2/0	13.2 - 16.0	672.0	-	-	-	-	-	-	-	-	26913
95	3/0	15.1 - 18.2	912.0	-	-	-	-	-	-	-	-	26929
120	4/0	16.7 - 20.2	1152.0	-	-	-	-	-	-	-	-	29313
150	300 kcmil	18.6 - 22.5	1440.0	-	-	-	-	-	-	-	-	29329
185	350 kcmil	20.6 - 24.9	1776.0	-	-	-	-	-	-	-	-	29345
240	500 kcmil	23.5 - 28.4	2304.0	-	-	-	-	-	-	-	-	29361
300	600 kcmil	26.0 - 30.5	2880.0	28878	28879	28880	28881	28882	28883	28884	28885	28886

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	orange (RAL 2003)	green (RAL 6018)	dark blue (RAL 5010)	pink (RAL 3015)	transparent	blue-white
				Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
4	12	3.9 - 4.8	38.0	-	29570	-	-	29571	-
6	10	4.4 - 5.3	58.0	-	29584	-	-	29585	-
10	8	5.7 - 6.8	96.0	-	26835	-	-	26836	11020489
16	6	6.7 - 8.1	154.0	-	26851	-	-	26852	-
25	4	8.4 - 10.2	240.0	-	26867	-	-	26868	-
35	2	9.7 - 11.7	336.0	-	26883	-	-	26884	-
50	1	11.5 - 13.9	480.0	-	26899	-	-	26900	-
70	2/0	13.2 - 16.0	672.0	-	26915	-	-	26916	-
95	3/0	15.1 - 18.2	912.0	-	26931	-	-	26932	-
120	4/0	16.7 - 20.2	1152.0	-	29315	-	-	29316	-
150	300 kcmil	18.6 - 22.5	1440.0	-	29331	-	-	29332	-
185	350 kcmil	20.6 - 24.9	1776.0	-	29347	-	-	29348	-
240	500 kcmil	23.5 - 28.4	2304.0	-	29363	-	-	29364	-
300	600 kcmil	26.0 - 30.5	2880.0	28890	28888	28889	28887	-	-