

H07Z-K / 07Z-K

halogen-free single core, finely stranded, bare wire



TECHNICAL DATA

Single core, H07Z-K acc. to DIN VDE 0285-525-3-41 / DIN EN 50525-3-41; 07Z-K in alignment with DIN VDE 0285-525-3-41 / DIN EN 50525-3-41

Temperature range	flexible -5°C to +90°C fixed -40°C to +90°C
Permissible operating temperature of the conductor	+90°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
- Foil wrapping around conductor permissible
- Core insulation: cross-linked polyolefin acc. to DIN VDE 0207-363-5 / DIN EN 50363-5 (compound type EI5)
- Core identification: see table

PROPERTIES

- resistant to: ozone
- halogen-free

- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- halogen-free acc. to DIN VDE 0285-525-1 / DIN EN 50525-1 appendix B
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- ozone-resistant acc. to DIN VDE 0473-811-403 / DIN EN 60811-403

APPLICATION

For applications that require a low development of smoke and corrosive gases in case of fire. Installation in pipes on and under plaster or in similar enclosed systems. Suitable for protected, permanent laying in lighting installations or switch and control devices up to 1000V AC or 750V DC against earth.

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

H07Z-K

Cross-sec. mm ²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	black Part no.	green-yellow Part no.	blue Part no.	brown Part no.	red Part no.	white Part no.	grey Part no.	violet Part no.
1.5	2.8 - 3.5	16	14.4	24.0	51768	51769	51770	51771	51772	51773	51774	51775
2.5	3.4 - 4.3	14	24.0	35.0	51777	51778	51779	51780	51781	51782	51783	51784
4	3.9 - 4.9	12	38.0	51.0	51786	51787	51788	51789	51790	51791	51792	51793
6	4.4 - 5.5	10	58.0	71.0	51795	51796	51797	51798	51799	51800	51801	51802
10	5.7 - 7.1	8	96.0	118.0	51804	51805	51806	51807	51808	51809	51810	51811
16	6.7 - 8.4	6	154.0	180.0	51813	51814	51815	51816	51817	51818	51819	51820
25	8.4 - 10.6	4	240.0	278.0	51822	51823	51824	51825	51826	51827	51828	51829
35	9.7 - 12.1	2	336.0	375.0	51831	51832	51833	51834	51835	51836	51837	51838
50	11.5 - 14.4	1	480.0	560.0	51840	51841	51842	51843	51844	51845	51846	51847
70	13.2 - 16.6	2/0	672.0	780.0	51849	51850	51851	51852	51853	51854	51855	51856
95	15.1 - 18.8	3/0	912.0	952.0	51858	51859	51860	51861	51862	51863	51864	51865
120	16.7 - 20.9	4/0	1152.0	1200.0	51867	51868	51869	51870	51871	51872	51873	51874
150	18.6 - 23.3	300 kcmil	1440.0	1505.0	51876	51877	51878	51879	51880	51881	51882	51883
185	20.6 - 25.8	350 kcmil	1776.0	1845.0	51885	51886	51887	51888	51889	51890	51891	51892
240	23.5 - 29.4	500 kcmil	2304.0	2400.0	51894	51895	51896	51897	51898	51899	51900	51901

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Cross-sec. mm ²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	orange	dark blue	pink	ultramarine blue
					Part no.	Part no.	Part no.	Part no.
1.5	2.8 - 3.5	16	14.4	24.0	52952	52951	52165	53074
2.5	3.4 - 4.3	14	24.0	35.0	52954	52953	52166	53075
4	3.9 - 4.9	12	38.0	51.0	52956	52955	52167	53076
6	4.4 - 5.5	10	58.0	71.0	52958	52957	52168	53077
10	5.7 - 7.1	8	96.0	118.0	52960	52959	52169	53078
16	6.7 - 8.4	6	154.0	180.0	52962	52961	52170	53079
25	8.4 - 10.6	4	240.0	278.0	52964	52963	52171	53080
35	9.7 - 12.1	2	336.0	375.0	52966	52965	52172	53081
50	11.5 - 14.4	1	480.0	560.0	52968	52967	52173	53082
70	13.2 - 16.6	2/0	672.0	780.0	52970	52969	-	53083
95	15.1 - 18.8	3/0	912.0	952.0	52972	52971	-	53084
120	16.7 - 20.9	4/0	1152.0	1200.0	52974	52973	-	53085
150	18.6 - 23.3	300 kcmil	1440.0	1505.0	52976	52975	-	53086
185	20.6 - 25.8	350 kcmil	1776.0	1845.0	52978	52977	-	53087
240	23.5 - 29.4	500 kcmil	2304.0	2400.0	52980	52979	-	53088

07Z-K

Cross-sec. mm ²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	yellow	green	blue-white	brown-white	dark blue-white	red-white
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
1.5	2.8 - 3.5	16	14.4	24.0	51776	52648	51405	51406	51407	51404
2.5	3.4 - 4.3	14	24.0	35.0	51785	52649	51409	51410	51411	51408
4	3.9 - 4.9	12	38.0	51.0	51794	52650	51413	51414	51415	51412
6	4.4 - 5.5	10	58.0	71.0	51803	52651	51417	51418	50899	51416
10	5.7 - 7.1	8	96.0	118.0	51812	52652	-	-	-	-
16	6.7 - 8.4	6	154.0	180.0	51821	52653	-	-	-	-
25	8.4 - 10.6	4	240.0	278.0	51830	52654	-	-	-	-
35	9.7 - 12.1	2	336.0	375.0	51839	52655	-	-	-	-
50	11.5 - 14.4	1	480.0	560.0	51848	52656	-	-	-	-
70	13.2 - 16.6	2/0	672.0	780.0	51857	-	-	-	-	-
95	15.1 - 18.8	3/0	912.0	952.0	51866	-	-	-	-	-
120	16.7 - 20.9	4/0	1152.0	1200.0	51875	-	-	-	-	-
150	18.6 - 23.3	300 kcmil	1440.0	1505.0	51884	-	-	-	-	-
185	20.6 - 25.8	350 kcmil	1776.0	1845.0	51893	-	-	-	-	-
240	23.5 - 29.4	500 kcmil	2304.0	2400.0	51902	-	-	-	-	-

H07Z-K Barrel

Cross-sec. mm ²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	black	green-yellow	blue	brown	red	white	grey	violet
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
1.5	2.8 - 3.5	16	14.4	24.0	52845	52846	52847	52848	52849	52850	52851	52852
2.5	3.4 - 4.3	14	24.0	35.0	52857	52858	52859	52860	52861	52862	52863	52864
4	3.9 - 4.9	12	38.0	51.0	52135	52136	52137	52138	52139	52140	52141	52142
6	4.4 - 5.5	10	58.0	71.0	52145	52146	52147	52148	52149	52150	52151	52152

Cross-sec. mm ²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	orange	dark blue
					Part no.	Part no.
1.5	2.8 - 3.5	16	14.4	24.0	52855	52853
2.5	3.4 - 4.3	14	24.0	35.0	52867	52865
4	3.9 - 4.9	12	38.0	51.0	52144	52143
6	4.4 - 5.5	10	58.0	71.0	52154	52153

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Cross-sec. mm ²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	yellow	green	dark blue-white
					Part no.	Part no.	Part no.
1.5	2.8 - 3.5	16	14.4	24.0	52158	52660	11008910
2.5	3.4 - 4.3	14	24.0	35.0	52159	52661	11008911
4	3.9 - 4.9	12	38.0	51.0	52160	52662	11008912
6	4.4 - 5.5	10	58.0	71.0	52161	52663	11008913