

# 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

<b>Temperature range</b>	flexible -5°C to +90°C fixed -40°C to +90°C
<b>Permissible operating temperature of the conductor</b>	+90°C
<b>Nominal voltage</b>	AC U <sub>0</sub> /U 450/750 V
<b>Test voltage</b>	2500 V
<b>Minimum bending radius</b>	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 E15)
- 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 (mm<sup>2</sup>) 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 <sup>2</sup>	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.	
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 <sup>2</sup>	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.				
					Part no.	Part no.	Part no.	Part no.
1.5	2.8 - 3.5	16	14.4	24.0	<b>52952</b>	<b>52951</b>	<b>52165</b>	<b>53074</b>
2.5	3.4 - 4.3	14	24.0	35.0	<b>52954</b>	<b>52953</b>	<b>52166</b>	<b>53075</b>
4	3.9 - 4.9	12	38.0	51.0	<b>52956</b>	<b>52955</b>	<b>52167</b>	<b>53076</b>
6	4.4 - 5.5	10	58.0	71.0	<b>52958</b>	<b>52957</b>	<b>52168</b>	<b>53077</b>
10	5.7 - 7.1	8	96.0	118.0	<b>52960</b>	<b>52959</b>	<b>52169</b>	<b>53078</b>
16	6.7 - 8.4	6	154.0	180.0	<b>52962</b>	<b>52961</b>	<b>52170</b>	<b>53079</b>
25	8.4 - 10.6	4	240.0	278.0	<b>52964</b>	<b>52963</b>	<b>52171</b>	<b>53080</b>
35	9.7 - 12.1	2	336.0	375.0	<b>52966</b>	<b>52965</b>	<b>52172</b>	<b>53081</b>
50	11.5 - 14.4	1	480.0	560.0	<b>52968</b>	<b>52967</b>	<b>52173</b>	<b>53082</b>
70	13.2 - 16.6	2/0	672.0	780.0	<b>52970</b>	<b>52969</b>	-	<b>53083</b>
95	15.1 - 18.8	3/0	912.0	952.0	<b>52972</b>	<b>52971</b>	-	<b>53084</b>
120	16.7 - 20.9	4/0	1152.0	1200.0	<b>52974</b>	<b>52973</b>	-	<b>53085</b>
150	18.6 - 23.3	300 kcmil	1440.0	1505.0	<b>52976</b>	<b>52975</b>	-	<b>53086</b>
185	20.6 - 25.8	350 kcmil	1776.0	1845.0	<b>52978</b>	<b>52977</b>	-	<b>53087</b>
240	23.5 - 29.4	500 kcmil	2304.0	2400.0	<b>52980</b>	<b>52979</b>	-	<b>53088</b>

## 07Z-K

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

## H07Z-K Barrel

Cross-sec. mm <sup>2</sup>	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.								
					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	<b>52845</b>	<b>52846</b>	<b>52847</b>	<b>52848</b>	<b>52849</b>	<b>52850</b>	<b>52851</b>	<b>52852</b>
2.5	3.4 - 4.3	14	24.0	35.0	<b>52857</b>	<b>52858</b>	<b>52859</b>	<b>52860</b>	<b>52861</b>	<b>52862</b>	<b>52863</b>	<b>52864</b>
4	3.9 - 4.9	12	38.0	51.0	<b>52135</b>	<b>52136</b>	<b>52137</b>	<b>52138</b>	<b>52139</b>	<b>52140</b>	<b>52141</b>	<b>52142</b>
6	4.4 - 5.5	10	58.0	71.0	<b>52145</b>	<b>52146</b>	<b>52147</b>	<b>52148</b>	<b>52149</b>	<b>52150</b>	<b>52151</b>	<b>52152</b>

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

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## 07Z-K Barrel

Cross-sec. mm <sup>2</sup>	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	<b>52158</b>	<b>52660</b>	<b>11008910</b>
2.5	3.4 - 4.3	14	24.0	35.0	<b>52159</b>	<b>52661</b>	<b>11008911</b>
4	3.9 - 4.9	12	38.0	51.0	<b>52160</b>	<b>52662</b>	<b>11008912</b>
6	4.4 - 5.5	10	58.0	71.0	<b>52161</b>	<b>52663</b>	<b>11008913</b>