

H05Z-K 300/500 V & H07Z-K 450/750 V

Halogen-Free Single Core Wire



Application

H05Z-K: For fixed installations in devices and in or on lights, as well as for the house installation, especially for uses by their one low creation is demanded of smoke and corrosive gases in the fire case, however not outside.

H07Z-K: For the installation in electrical conduit on or under plaster or in similar closed systems especially for applications where there is a requirement for low smoke and corrosive gas creation in the event of fire, however not outside.

Construction

Conductor material	Fine-stranded bare copper
Insulation	Halogen-free, cross-linked polyofelin copolymerisate (EI5)

Standards and Certifications

EN 50525-3-41
 DIN EN 60228 class 5 (construction)

Technical Data

Nominal voltage H05Z-K U ₀ /U	[V]	300 / 500 V
Nominal voltage H07Z-K U ₀ /U	[V]	450 / 750 V
Test voltage H05Z-K	[V]AC	2000
Test voltage H07Z-K	[V]AC	2500
Temperature range	in motion °C	+5°C till +70°C
Operating temperature	short circuit °C	250°C
Short circuit time	max. [sec]	5
Bending radius	min. x diameter	6

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Fire classification CPR class

Reaction to fire EN 60332-1-2 - Eca

Number of cores x Cross- section	Outer diameter min.	Outer diameter max.	Max. diameter of copper wire	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
H05Z-K					
0.5	2.1	2.6	0.21	10	39
0.75	2.2	2.8	0.21	12	26
1	2.4	2.9	0.21	14	19.5
H07Z-K					
1.5	2.8	3.5	0.26	21	13.3
2.5	3.4	4.3	0.26	32	7.98
4	3.9	4.9	0.31	47	4.95
6	4.4	5.5	0.31	67	3.30
10	5.7	7.1	0.41	115	1.91
16	6.7	8.4	0.41	175	1.21
25	8.4	10.6	0.41	280	0.78
35	9.7	12.1	0.41	375	0.554
50	11.5	14.4	0.41	550	0.386
70	13.2	16.6	0.51	760	0.272
95	15.1	18.8	0.51	1020	0.206
120	16.7	20.9	0.51	1270	0.161
150	18.6	23.3	0.51	1600	0.129
185	20.6	25.8	0.51	1960	0.106
240	23.5	29.4	0.51	2550	0.0801

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