

H05Z-K, H07Z-K 90°C / X05Z-K, X07Z-K 110°C

Harmonised; Halogen-free for the protection of human life, environment and material assets



H05Z-K, H07Z-K 90°C

Benefits

- The insulation material is halogen-free and free of other materials which could release corrosive gases in the event of fire
- Protection of human life and the environment caused by the formation of acid in case of fire

Application range

- For wiring of lamps, devices, switchgear cabinets and distribution boxes
- For installation in tubes, on, in and under plaster as well as in closed installation ducts
- In buildings with a high concentration of people or valuables
- For use in dry rooms

Product features

H05Z-K, H07Z-K 90°C

- Flame retardant according to IEC 60332-2-2 (H05Z-K)

X05Z-K, X07Z-K 110°C

- Flame retardant according to IEC 60332-1-2 (H07Z-K)
- Low corrosivity of the gases in case of fire
- Low smokes

X05Z-K, X07Z-K 110°C

- Flame retardant according to IEC 60332-1-2
- Low corrosivity of the gases in case of fire
- Low smokes

Approvals (Norm references)



X05Z-K, X07Z-K 110°C

- 110°C version isn't harmonised (no HAR sign)

Design

- Fine-wired core with bare copper strands
- Core insulation: Halogen-free



Info

- Halogen-free
- Harmonised (HAR)

Technical data



Approvals

H05Z-K, H07Z-K 90°C
H05Z-K & H07Z-K: HD 22.9



Based on

X05Z-K, X07Z-K 110°C
H05Z-K & H07Z-K: HD 22.9



Conductor stranding

Fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5



Minimum bending radius

H05Z-K, H07Z-K 90°C
Acc. to HD 516 S2, table 6 (a), at 10 °C - 30 °C cable temperature
OD≤8mm: 4xOD* / 2xOD**; 8<OD≤12mm: 5xOD* / 3xOD**; OD>12mm: 6xOD* / 4xOD**
X05Z-K, X07Z-K 110°C
OD≤8mm: 4xOD* / 2xOD**; 8<OD≤12mm: 5xOD* / 3xOD**; OD>12mm: 6xOD* / 4xOD**



Rated voltage

H05Z-K, H07Z-K 90°C
H05Z-K: U₀/U: 300/500 V
H07Z-K: U₀/U: 450/750 V
X05Z-K, X07Z-K 110°C
X05Z-K: U₀/U: 300/500 V
X07Z-K: U₀/U: 450/750 V



Test voltage

H05Z-K, H07Z-K 90°C
H05Z-K: 2000 VAC
H07Z-K: 2500 VAC
X05Z-K, X07Z-K 110°C
X05Z-K: 2000 VAC
X07Z-K: 2500 VAC



Current rating

VDE 0298-4
HD 516



Range of temperature

H05Z-K, H07Z-K 90°C
Fixed installation: -15°C up to +90°C
X05Z-K, X07Z-K 110°C
Fixed installation: -40°C up to +110°C

H05Z-K, H07Z-K 90°C

Conductor cross section in mm ²	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.	green/yellow	black	blue	dark-blue
H05Z-K 90°C							
0.5	2.1	4.8	9.0	4725001	4725011	4725021	4725141
0.75	2.3	7.2	14.0	4725002	4725012	4725022	4725142
1	2.5	9.6	14.0	4725003	4725013	4725023	4725143
H07Z-K 90°C							
1.5	3.2	14.4	20.0	4726001	4726011	4726021	4726141
2.5	3.7	24.0	32.0	4726002	4726012	4726022	4726142
4	4.2	38.4	45.0	4726003	4726013	4726023	4726143
6	4.9	58.0	65.0	4726004	4726014	4726024	4726144
10	6.2	96.0	110.0	4726005	4726015	4726025	4726145
16	7.5	154.0	170.0	4726006	4726016	4726026	4726146
25	9.3	240.0	290.0	4726007	4726017	4726027	4726147
35	10.5	336.0	380.0	4726008	4726018	4726028	4726148
50	12.6	480.0	530.0	4726009	4726019	4726029	4726149
70	14.5	672.0	750.0	4727001	4727011	4727021	4727141
95	16.9	912.0	1,000.0	4727002	4727012	4727022	4727142
H05Z-K 90°C in one-way cardboards							
0.5	2.1	4.8	9.0	4725001K	4725011K	4725021K	4725141K
0.75	2.3	7.2	14.0	4725002K	4725012K	4725022K	4725142K
1	2.5	9.6	14.0	4725003K	4725013K	4725023K	4725143K
H07Z-K 90°C in one-way cardboards							
1.5	3.2	14.4	20.0	4726001K	4726011K	4726021K	4726141K
2.5	3.7	24.0	32.0	4726002K	4726012K	4726022K	4726142K
4	4.2	38.4	45.0	4726003K	4726013K	4726023K	4726143K
6	4.9	58.0	65.0		4726014K	4726024K	4726144K

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Packaging size: Coil ≤ 30 kg, otherwise drum

*at conventional usage, **at cautious bending; "OD" = outer diameter