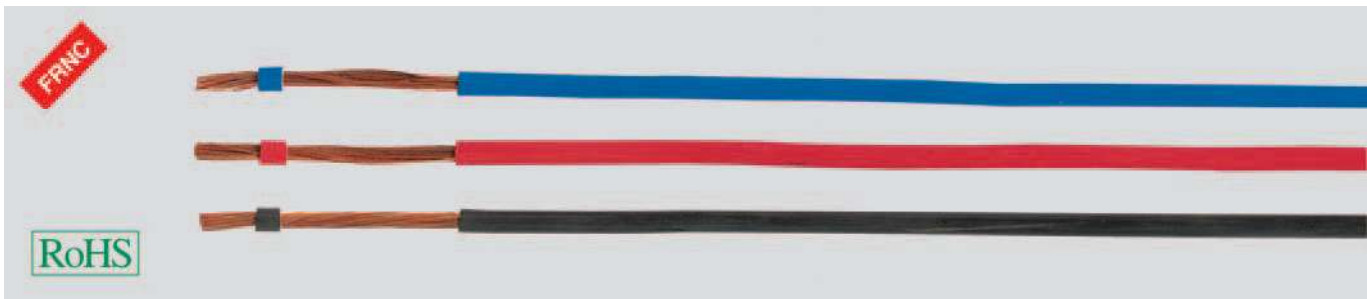


**H05Z-K / H07Z-K** single core, halogen-free**Technical data**

- Single cores for low emission of smoke and corrosive gases in case of fire to DIN VDE 0285-525-3-41 / DIN EN 50525-3-41
- **Conductor resistance** acc. to DIN VDE 0295 cl.5
- **Temperature range** -40°C to +90°C
- Permissible **working temperature** at conductor +90°C
- **Nominal voltage**  
H05Z-K =  $U_0/U$  300/500 V  
H07Z-K =  $U_0/U$  450/750 V
- **Test voltage** 2500 V
- **Insulation resistance** at 90°C to DIN VDE 0282 part 9
- **Minimum bending radius** fixed installation  
core  $\varnothing \leq 8$  mm: 4x core  $\varnothing$   
core  $\varnothing > 8-12$  mm: 5x core  $\varnothing$   
core  $\varnothing > 12$  mm: 6x core  $\varnothing$
- **Radiation resistance** up to  $20 \times 10^6$  cJ/kg (up to 20 Mrad)

**Cable structure**

- Bare Cu-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Separating foil over conductor permitted
- Core insulation of cross-linked polyolefin compound type EI5 to DIN VDE 0207-363-5 / DIN EN 50363-5
- Core identification see table below
- **LSOH**= Low Smoke Zero Halogen

**Properties**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

**Tests**

- Behaviour in fire self-extinguishing and flame retardant to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Ozone resistant acc. to DIN VDE 0473-811-403, DIN EN 60811-403
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2 (previously DIN VDE 0472 part 816)
- Halogen-free acc. to DIN VDE 0285-525-1, DIN EN 50525-1 appendix B

**Note**

- Type H07Z-K  
Colour yellow only as (H)07Z-K available

**Application**

Halogen-free single-core wires are used for installation in dry environments for wiring up lighting fixtures and units where valuable assets are to be protected from further damage resulting from fire. These types are suitable for laying in tubes on and under plaster, as well as in closed installation ducts.

**H07Z-K**, suitable for protected, permanent laying in or on lighting installations or switching and control equipment up to 1000 V AC or 750 V DC to earth.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

**H05Z-K**

Cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	BK	GN-YE	BU	BN	RD	WH	GY	VT	YE	D-BU	OG	U-BU
Part no. 0,5	2,1 - 2,6	4,8	9,0	52872	52873	52874	52875	52876	52877	52878	52879	52880	52945	52946	53071
Part no. 0,75	2,2 - 2,8	7,2	12,4	52881	52882	52883	52884	52885	52886	52887	52888	52889	52947	52948	53072
Part no. 1	2,4 - 2,9	9,6	15,0	52890	52891	52892	52893	52894	52895	52896	52897	52898	52949	52950	53073

**H07Z-K**

Cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	BK	GN-YE	BU	BN	RD	WH	GY	VT	YE	D-BU	OG	U-BU
Part no. 1,5	2,8 - 3,5	14,4	24,0	51768	51769	51770	51771	51772	51773	51774	51775	51776	52951	52952	53074
Part no. 2,5	3,4 - 4,3	24,0	35,0	51777	51778	51779	51780	51781	51782	51783	51784	51785	52953	52954	53075
Part no. 4	3,9 - 4,9	38,0	51,0	51786	51787	51788	51789	51790	51791	51792	51793	51794	52955	52956	53076
Part no. 6	4,4 - 5,5	58,0	71,0	51795	51796	51797	51798	51799	51800	51801	51802	51803	52957	52958	53077
Part no. 10	5,7 - 7,1	96,0	118,0	51804	51805	51806	51807	51808	51809	51810	51811	51812	52959	52960	53078
Part no. 16	6,7 - 8,4	154,0	180,0	51813	51814	51815	51816	51817	51818	51819	51820	51821	52961	52962	53079
Part no. 25	8,4 - 10,6	240,0	278,0	51822	51823	51824	51825	51826	51827	51828	51829	51830	52963	52964	53080
Part no. 35	9,7 - 12,1	336,0	375,0	51831	51832	51833	51834	51835	51836	51837	51838	51839	52965	52966	53081
Part no. 50	11,5 - 14,4	480,0	560,0	51840	51841	51842	51843	51844	51845	51846	51847	51848	52967	52968	53082

Continuation ►

**H05Z-K / H07Z-K** single core, halogen-free**H07Z-K**

Cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	BK	GN-YE	BU	BN	RD	WH	GY	VT	YE	D-BU	OG	U-BU
Part no. 70	13,2 - 16,6	672,0	780,0	51849	51850	51851	51852	51853	51854	51855	51856	51857	52969	52970	53083
Part no. 95	15,1 - 18,8	912,0	952,0	51858	51859	51860	51861	51862	51863	51864	51865	51866	52971	52972	53084
Part no. 120	16,7 - 20,9	1152,0	1200,0	51867	51868	51869	51870	51871	51872	51873	51874	51875	52973	52974	53085
Part no. 150	18,6 - 23,3	1440,0	1505,0	51876	51877	51878	51879	51880	51881	51882	51883	51884	52975	52976	53086
Part no. 185	20,6 - 25,8	1776,0	1845,0	51885	51886	51887	51888	51889	51890	51891	51892	51893	52977	52978	53087
Part no. 240	23,5 - 29,4	2304,0	2400,0	51894	51895	51896	51897	51898	51899	51900	51901	51902	52979	52980	53088

**H05Z-K two colour, coil in foil**

Cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight	RD/WH	BU/WH	BN/WH	D-BU/WH
Part no. 0,5	2,1 - 2,6	4,8	9,0	51392	51393	51394	51395
Part no. 0,75	2,2 - 2,8	7,2	12,4	51396	51397	51398	51399
Part no. 1	2,2 - 2,8	9,6	15,0	51400	51401	51402	51403

**H07Z-K two colour, coil in foil**

Cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight	RD/WH	BU/WH	BN/WH	D-BU/WH
Part no. 1,5	2,8 - 3,5	14,4	24,0	51404	51405	51406	51407
Part no. 2,5	3,4 - 4,3	24,0	35,0	51408	51409	51410	51411
Part no. 4	3,9 - 4,9	38,0	51,0	51412	51413	51414	51415
Part no. 6	4,4 - 5,5	58,0	71,0	51416	51417	51418	50899

**H05Z-K, barrel (with various capacity)**

Cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	BK	GN-YE	BU	BN	RD	WH	GY	VT	YE	D-BU	OG	U-BU
Part no. 0,5	2,1 - 2,6	4,8	9,0	52809	52810	52811	52812	52813	52814	52815	52816	-	52817	52819	-
Part no. 0,75	2,2 - 2,8	7,2	12,4	52821	52822	52823	52824	52825	52826	52827	52828	-	52829	52831	-
Part no. 1	2,4 - 2,9	9,6	15,0	52833	52834	52835	52836	52837	52838	52839	52840	-	52841	52843	-

**H07Z-K, barrel (with various capacity)**

Cross-sec. mm <sup>2</sup>	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	BK	GN-YE	BU	BN	RD	WH	GY	VT	YE	D-BU	OG	U-BU
Part no. 1,5	2,8 - 3,5	14,4	24,0	52845	52846	52847	52848	52849	52850	52851	52852	-	52853	52855	-
Part no. 2,5	3,4 - 4,3	24,0	35,0	52857	52858	52859	52860	52861	52862	52863	52864	-	52865	52867	-
Part no. 4	3,9 - 4,9	38,0	51,0	52135	52136	52137	52138	52139	52140	52141	52142	-	52143	52144	-
Part no. 6	4,4 - 5,5	58,0	71,0	52145	52146	52147	52148	52149	52150	52151	52152	-	52153	52154	-

Dimensions and specifications may be changed without prior notice. (RK01)



Suitable accessories can be found in Chapter X.

- Core end sleeve - ADI
- Core end sleeve - ADU

K