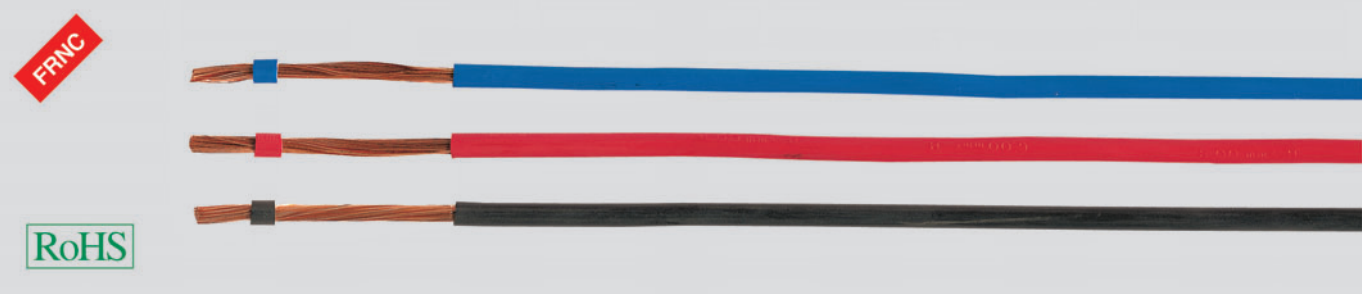
H05Z-K / H07Z-K rubber insulated single core, halogen-free



Technical data

- Rubber-insulated single core cables for low emission of smoke and corrosive gases in case of fire to VDE 0282 part 9 and HD 22.9 S2
- **Conductor resistance** according to DIN VDE 0295 cl. 5
- **Temperature range** -40 °C to +90 °C
- Permissible **working temperature** at the 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
- **Minimum bending radius** approx. 8x core ø
- **Radiation resistance** up to 20x10⁶ cJ/kg (up to 20 Mrad)

Cable structure

- Bare copper conductor, finewire stranded according to DIN VDE 0295 cl. 5, BS 6360 cl. 5, IEC 60228, HD 383
- Core identification according to DIN VDE 0293
- Separator over conductor permitted
- Core insulation of cross-linked polyolefin, compound type EI5 to DIN VDE 0282 part 1
- Core colors see table below, dark blue and orange on request
- **LSOH** = Low Smoke Zero Halogen-free.

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

- self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Ozone resistant according to EN 60811-2-1 / HD 505.2.1
- Smoke density according to VDE 0482 part 1034-1+2, DIN EN 61034-1+2/ IEC 61034-1+2, BS 7622 part 1+2 (equivalent DIN VDE 0472 part 816)

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

K

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 protected from further damage resulting from fire. These cables may be installed on, in and beneath plaster, as well as in closed installation ducts. The direct operating voltage is permitted up to 900 V against ground when they are used in rail-coaches. For the inner wiring of switch boards and distributors are to be used with an alternating nominal voltage up to 1000 V or a direct voltage up to 750 V against ground.

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

H05Z-K

Cross-section mm²	Core Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	black	gn-ye	blue	brown	red	white	grey	vio	dk-bu	ye	og	u-blue
Part no.				52872	52873	52874	52875	52876	52877	52878	52879	52945	52880	52946	53071
0,5	2,1 - 2,6	4,8	9,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				52881	52882	52883	52884	52885	52886	52887	52888	52947	52889	52948	53072
0,75	2,2 - 2,8	7,2	12,4	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				52890	52891	52892	52893	52894	52895	52896	52897	52949	52898	52950	53073
1	2,4 - 2,9	9,6	15,0	-	-	-	-	-	-	-	-	-	-	-	-

H07Z-K

Cross-section mm²	Core Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	black	gn-ye	blue	brown	red	white	grey	vio	dk-bu	ye	og	u-blue
Part no.				51768	51769	51770	51771	51772	51773	51774	51775	52951	51776	52952	53074
1,5	2,8 - 3,5	14,4	24,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				51777	51778	51779	51780	51781	51782	51783	51784	52953	51785	52954	53075
2,5	3,4 - 4,3	24,0	35,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				51786	51787	51788	51789	51790	51791	51792	51793	52955	51794	52956	53076
4	3,9 - 4,9	38,0	51,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				51795	51796	51797	51798	51799	51800	51801	51802	52957	51803	52958	53077
6	4,4 - 5,5	58,0	71,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				51804	51805	51806	51807	51808	51809	51810	51811	52959	51812	52960	53078
10	5,7 - 7,1	96,0	118,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				51813	51814	51815	51816	51817	51818	51819	51820	52961	51821	52962	53079
16	6,7 - 8,4	154,0	180,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				51822	51823	51824	51825	51826	51827	51828	51829	52963	51830	52964	53080
25	8,4 - 10,6	240,0	278,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				51831	51832	51833	51834	51835	51836	51837	51838	52965	51839	52966	53081
35	9,7 - 12,1	336,0	375,0	-	-	-	-	-	-	-	-	-	-	-	-
Part no.				51840	51841	51842	51843	51844	51845	51846	51847	52967	51848	52968	53082
50	11,5 - 14,4	480,0	560,0	-	-	-	-	-	-	-	-	-	-	-	-

Continuation ▸