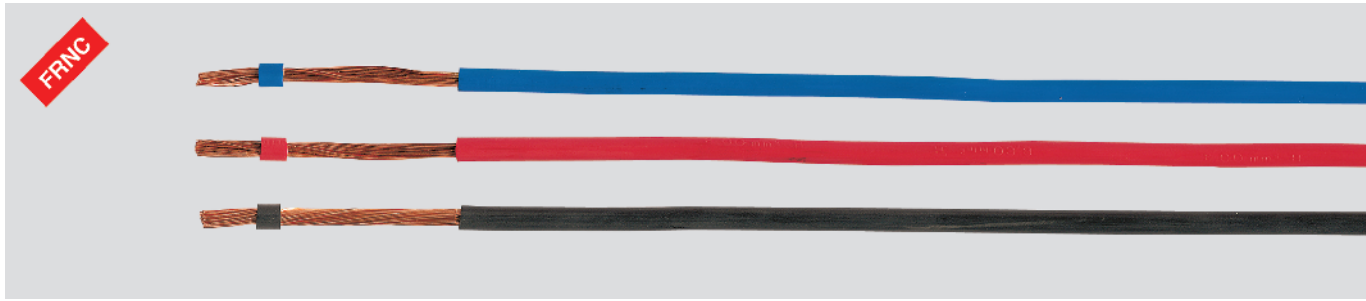


# H05Z-K / H07Z-K

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 conductor **operating temperature** +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 0282-9
- **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 copper 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 E15 to DIN VDE 0207-363-5 / DIN EN 50363-5
- Core identification: see table below
- **LS0H** = Low Smoke Zero Halogen

## Properties

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

## Tests

- Self-extinguishing and flame retardant acc. o DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- Ozone resistant acc. to DIN VDE 0473-811-403/DIN EN 60811-403
- Smoke density acc. to DIN VDE 0482-1034-1+2 / BS 7622-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- 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 = Product conforms with Low-Voltage Directive 2014/35/EU.

## H05Z-K

| Cross-sec. mm <sup>2</sup> | Outer Ø min. - max. mm | Cop. weight kg / km | Weight app. 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 app. 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 app. 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**

| Cross-sec. mm <sup>2</sup> | Outer Ø min. - max. mm | Cop. weight kg / km | Weight app. kg / km | 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                 | 2,4 - 2,9              | 9,6                 | 15,0                | 51400 | 51401 | 51402 | 51403   |

**H07Z-K two colour**

| Cross-sec. mm <sup>2</sup> | Outer Ø min. - max. mm | Cop. weight kg / km | Weight app. kg / km | 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 app. 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 app. 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)

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