

# H05Z-K

halogen-free single core, finely stranded, bare wire



## TECHNICAL DATA

Single core acc. to DIN VDE 0285-525-3-41 / DIN EN 50525-3-41

**Temperature range** flexible -5°C to +90°C  
fixed -40°C to +90°C

**Permissible operating temperature of the conductor** +90°C

**Nominal voltage** AC U<sub>0</sub>/U 300/500 V

**Test voltage** 2000 V

**Minimum bending radius** fixed 4x Outer-Ø

## ■ CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Foil wrapping around conductor permissible
- Core insulation: cross-linked polyolefin acc. to DIN VDE 0207-363-5 / DIN EN 50363-5 (compound type E15)
- Core identification: see table

## ■ PROPERTIES

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

## ■ TESTS

- halogen-free acc. to DIN VDE 0285-525-1 / DIN EN 50525-1 appendix B
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- ozone-resistant acc. to DIN VDE 0473-811-403 / DIN EN 60811-403

## ■ APPLICATION

For applications that require a low development of smoke and corrosive gases in case of fire. Used for internal wiring of devices and for connecting luminaires. For installation in electrical pipes on and under plaster; but only for signal and control circuits.

## ■ NOTES

- the conductor is metrically (mm<sup>2</sup>) constructed, AWG numbers are approximated, and are for reference only

## H05Z-K


Cross-sec. mm <sup>2</sup>	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	black	green-yellow	blue	brown	red	white	grey	violet
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	
0.5	2.1 - 2.6	20	4.8	9.0	52872	52873	52874	52875	52876	52877	52878	52879
0.75	2.2 - 2.8	19	7.2	12.4	52881	52882	52883	52884	52885	52886	52887	52888
1	2.4 - 2.9	18	9.6	15.0	52890	52891	52892	52893	52894	52895	52896	52897

Cross-sec. mm <sup>2</sup>	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	yellow	orange	green	dark blue	pink	ultramarine blue	blue-white	brown-white
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	
0.5	2.1 - 2.6	20	4.8	9.0	52880	52946	52645	52945	52162	53071	51393	51394
0.75	2.2 - 2.8	19	7.2	12.4	52889	52948	52646	52947	52163	53072	51397	51398
1	2.4 - 2.9	18	9.6	15.0	52898	52950	52647	52949	52164	53073	51401	51402


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Cross-sec. mm <sup>2</sup>	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.		
					Part no.	Part no.
0.5	2.1 - 2.6	20	4.8	9.0	<b>51395</b>	<b>51392</b>
0.75	2.2 - 2.8	19	7.2	12.4	<b>51399</b>	<b>51396</b>
1	2.4 - 2.9	18	9.6	15.0	<b>51403</b>	<b>51400</b>

## H05Z-K Barrel

Cross-sec. mm <sup>2</sup>	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.								
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
0.5	2.1 - 2.6	20	4.8	9.0	<b>52809</b>	<b>52810</b>	<b>52811</b>	<b>52812</b>	<b>52813</b>	<b>52814</b>	<b>52815</b>	<b>52816</b>
0.75	2.2 - 2.8	19	7.2	12.4	<b>52821</b>	<b>52822</b>	<b>52823</b>	<b>52824</b>	<b>52825</b>	<b>52826</b>	<b>52827</b>	<b>52828</b>
1	2.4 - 2.9	18	9.6	15.0	<b>52833</b>	<b>52834</b>	<b>52835</b>	<b>52836</b>	<b>52837</b>	<b>52838</b>	<b>52839</b>	<b>52840</b>

Cross-sec. mm <sup>2</sup>	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.					
					Part no.	Part no.	Part no.	Part no.	Part no.
0.5	2.1 - 2.6	20	4.8	9.0	<b>52155</b>	<b>52819</b>	<b>52657</b>	<b>52817</b>	<b>11008907</b>
0.75	2.2 - 2.8	19	7.2	12.4	<b>52156</b>	<b>52831</b>	<b>52658</b>	<b>52829</b>	<b>11008908</b>
1	2.4 - 2.9	18	9.6	15.0	<b>52157</b>	<b>52843</b>	<b>52659</b>	<b>52841</b>	<b>11008909</b>