

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 U₀/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 EI5)
- 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 (mm²) constructed, AWG numbers are approximated, and are for reference only

H05Z-K

Cross-sec. mm ²	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.	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 ²	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.	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. mm²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	dark blue-white	red-white
					Part no.	Part no.
0.5	2.1 - 2.6	20	4.8	9.0	51395	51392
0.75	2.2 - 2.8	19	7.2	12.4	51399	51396
1	2.4 - 2.9	18	9.6	15.0	51403	51400

H05Z-K Barrel

Cross-sec. mm²	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.	Part no.
0.5	2.1 - 2.6	20	4.8	9.0	52809	52810	52811	52812	52813	52814	52815	52816
0.75	2.2 - 2.8	19	7.2	12.4	52821	52822	52823	52824	52825	52826	52827	52828
1	2.4 - 2.9	18	9.6	15.0	52833	52834	52835	52836	52837	52838	52839	52840

Cross-sec. mm²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	yellow	orange	green	dark blue	dark blue-white
					Part no.	Part no.	Part no.	Part no.	Part no.
0.5	2.1 - 2.6	20	4.8	9.0	52155	52819	52657	52817	11008907
0.75	2.2 - 2.8	19	7.2	12.4	52156	52831	52658	52829	11008908
1	2.4 - 2.9	18	9.6	15.0	52157	52843	52659	52841	11008909