H07Z-K / 07Z-K

halogen-free single core, finely stranded, bare wire



TECHNICAL DATA

Single core, H07Z-K acc. to DIN VDE 0285-525-3-41 / DIN EN 50525-3-41; 07Z-K in alignment with 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_0/U 450/750 V
Test voltage	2500 V
Minimum bending radius	fixed <8 mm: 4x Outer-ø 8-12 mm: 5x Outer-ø >12 mm: 6x 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. Installation in pipes on and under plaster or in similar enclosed systems. Suitable for protected, permanent laying in lighting installations or switch and control devices up to 1000V AC or 750V DC against earth.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- Approved core colours: black, green-yellow, blue, brown, red, white, grey, violet, orange, pink

H07Z-K

Cross-sec. mm²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	black Part no.	green-yellow Part no.	blue Part no.	brown Part no.	red Part no.	white Part no.	grey Part no.	violet Part no.
1.5	2.8 - 3.5	16	14.4	24.0	**51768**	**51769**	**51770**	**51771**	**51772**	**51773**	**51774**	**51775**
2.5	3.4 - 4.3	14	24.0	35.0	**51777**	**51778**	**51779**	**51780**	**51781**	**51782**	**51783**	**51784**
4	3.9 - 4.9	12	38.0	51.0	**51786**	**51787**	**51788**	**51789**	**51790**	**51791**	**51792**	**51793**
6	4.4 - 5.5	10	58.0	71.0	**51795**	**51796**	**51797**	**51798**	**51799**	**51800**	**51801**	**51802**
10	5.7 - 7.1	8	96.0	118.0	**51804**	**51805**	**51806**	**51807**	**51808**	**51809**	**51810**	**51811**
16	6.7 - 8.4	6	154.0	180.0	**51813**	**51814**	**51815**	**51816**	**51817**	**51818**	**51819**	**51820**
25	8.4 - 10.6	4	240.0	278.0	**51822**	**51823**	**51824**	**51825**	**51826**	**51827**	**51828**	**51829**
35	9.7 - 12.1	2	336.0	375.0	**51831**	**51832**	**51833**	**51834**	**51835**	**51836**	**51837**	**51838**
50	11.5 - 14.4	1	480.0	560.0	**51840**	**51841**	**51842**	**51843**	**51844**	**51845**	**51846**	**51847**
70	13.2 - 16.6	2/0	672.0	780.0	**51849**	**51850**	**51851**	**51852**	**51853**	**51854**	**51855**	**51856**
95	15.1 - 18.8	3/0	912.0	952.0	**51858**	**51859**	**51860**	**51861**	**51862**	**51863**	**51864**	**51865**
120	16.7 - 20.9	4/0	1152.0	1200.0	**51867**	**51868**	**51869**	**51870**	**51871**	**51872**	**51873**	**51874**
150	18.6 - 23.3	300 kcmil	1440.0	1505.0	**51876**	**51877**	**51878**	**51879**	**51880**	**51881**	**51882**	**51883**
185	20.6 - 25.8	350 kcmil	1776.0	1845.0	**51885**	**51886**	**51887**	**51888**	**51889**	**51890**	**51891**	**51892**
240	23.5 - 29.4	500 kcmil	2304.0	2400.0	**51894**	**51895**	**51896**	**51897**	**51898**	**51899**	**51900**	**51901**

08.11.2021 / We reserve the right to make technical changes; the imprint in the image is purely exemplary

Continued on next page

H07Z-K / 07Z-K

halogen-free single core, finely stranded, bare wire

Cross-sec. mm²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	orange Part no.	dark blue Part no.	pink Part no.	ultramarine blue Part no.
1.5	2.8 - 3.5	16	14.4	24.0	**52952**	**52951**	**52165**	**53074**
2.5	3.4 - 4.3	14	24.0	35.0	**52954**	**52953**	**52166**	**53075**
4	3.9 - 4.9	12	38.0	51.0	**52956**	**52955**	**52167**	**53076**
6	4.4 - 5.5	10	58.0	71.0	**52958**	**52957**	**52168**	**53077**
10	5.7 - 7.1	8	96.0	118.0	**52960**	**52959**	**52169**	**53078**
16	6.7 - 8.4	6	154.0	180.0	**52962**	**52961**	**52170**	**53079**
25	8.4 - 10.6	4	240.0	278.0	**52964**	**52963**	**52171**	**53080**
35	9.7 - 12.1	2	336.0	375.0	**52966**	**52965**	**52172**	**53081**
50	11.5 - 14.4	1	480.0	560.0	**52968**	**52967**	**52173**	**53082**
70	13.2 - 16.6	2/0	672.0	780.0	**52970**	**52969**	-	**53083**
95	15.1 - 18.8	3/0	912.0	952.0	**52972**	**52971**	-	**53084**
120	16.7 - 20.9	4/0	1152.0	1200.0	**52974**	**52973**	-	**53085**
150	18.6 - 23.3	300 kcmil	1440.0	1505.0	**52976**	**52975**	-	**53086**
185	20.6 - 25.8	350 kcmil	1776.0	1845.0	**52978**	**52977**	-	**53087**
240	23.5 - 29.4	500 kcmil	2304.0	2400.0	**52980**	**52979**	-	**53088**

07Z-K

Cross-sec. mm²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	yellow Part no.	green Part no.	blue-white Part no.	brown-white Part no.	dark blue-white Part no.	red-white Part no.
1.5	2.8 - 3.5	16	14.4	24.0	**51776**	**52648**	**51405**	**51406**	**51407**	**51404**
2.5	3.4 - 4.3	14	24.0	35.0	**51785**	**52649**	**51409**	**51410**	**51411**	**51408**
4	3.9 - 4.9	12	38.0	51.0	**51794**	**52650**	**51413**	**51414**	**51415**	**51412**
6	4.4 - 5.5	10	58.0	71.0	**51803**	**52651**	**51417**	**51418**	**50899**	**51416**
10	5.7 - 7.1	8	96.0	118.0	**51812**	**52652**	-	-	-	-
16	6.7 - 8.4	6	154.0	180.0	**51821**	**52653**	-	-	-	-
25	8.4 - 10.6	4	240.0	278.0	**51830**	**52654**	-	-	-	-
35	9.7 - 12.1	2	336.0	375.0	**51839**	**52655**	-	-	-	-
50	11.5 - 14.4	1	480.0	560.0	**51848**	**52656**	-	-	-	-
70	13.2 - 16.6	2/0	672.0	780.0	**51857**	-	-	-	-	-
95	15.1 - 18.8	3/0	912.0	952.0	**51866**	-	-	-	-	-
120	16.7 - 20.9	4/0	1152.0	1200.0	**51875**	-	-	-	-	-
150	18.6 - 23.3	300 kcmil	1440.0	1505.0	**51884**	-	-	-	-	-
185	20.6 - 25.8	350 kcmil	1776.0	1845.0	**51893**	-	-	-	-	-
240	23.5 - 29.4	500 kcmil	2304.0	2400.0	**51902**	-	-	-	-	-

H07Z-K Barrel

Cross-sec. mm²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	black Part no.	green-yellow Part no.	blue Part no.	brown Part no.	red Part no.	white Part no.	grey Part no.	violet Part no.
1.5	2.8 - 3.5	16	14.4	24.0	**52845**	**52846**	**52847**	**52848**	**52849**	**52850**	**52851**	**52852**
2.5	3.4 - 4.3	14	24.0	35.0	**52857**	**52858**	**52859**	**52860**	**52861**	**52862**	**52863**	**52864**
4	3.9 - 4.9	12	38.0	51.0	**52135**	**52136**	**52137**	**52138**	**52139**	**52140**	**52141**	**52142**
6	4.4 - 5.5	10	58.0	71.0	**52145**	**52146**	**52147**	**52148**	**52149**	**52150**	**52151**	**52152**

Cross-sec. mm²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	orange Part no.	dark blue Part no.
1.5	2.8 - 3.5	16	14.4	24.0	**52855**	**52853**
2.5	3.4 - 4.3	14	24.0	35.0	**52867**	**52865**
4	3.9 - 4.9	12	38.0	51.0	**52144**	**52143**
6	4.4 - 5.5	10	58.0	71.0	**52154**	**52153**

Continued on next page

08.11.2021 / We reserve the right to make technical changes; the imprint in the image is purely exemplary

H07Z-K / 07Z-K

halogen-free single core, finely stranded, bare wire

07Z-K Barrel

Cross-sec. mm²	Outer-ø min - max mm	AWG, approx.	Cu-weight kg/km	Weight kg/km, approx.	yellow Part no.	green Part no.	dark blue-white Part no.
1.5	2.8 - 3.5	16	14.4	24.0	**52158**	**52660**	**11008910**
2.5	3.4 - 4.3	14	24.0	35.0	**52159**	**52661**	**11008911**
4	3.9 - 4.9	12	38.0	51.0	**52160**	**52662**	**11008912**
6	4.4 - 5.5	10	58.0	71.0	**52161**	**52663**	**11008913**

08.11.2021 / We reserve the right to make technical changes; the imprint in the image is purely exemplary