

# FRNC wire H05/07Z-K acc. to EN 50525-3-41



1X1.5 mm<sup>2</sup> H07Z-K IEMMEQU <HARD>

**conductor material:** bare copper  
**conductor construction:** fine stranded, class 5  
**insulation:** polyolefin EI5, halogen-free, cross-linked  
**flame retardant:** VDE 0482-332-1-2/IEC 60332-1  
**smoke density:** DIN EN 61034/IEC 61034  
**halogen free:** DIN EN 50267/IEC 60754  
**maximum temperature at conductor:** 90 °C  
**max. operating temperature, fixed:** 70 °C

**nominal voltage U<sub>0</sub>:** 300 V 450 V  
**nominal voltage U:** 500 V 750 V  
**test voltage:** 2,5 kV 2,5 kV

**Application:** For installation in tubes and ducts on and under plaster, for the internal wiring of electrical appliances, switching and distribution tools, as well as in busses and railborn vehicles.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics

| p/n    | part name         | D <sub>A</sub><br>[mm] | G<br>[kg] | Cu<br>[kg/km] |
|--------|-------------------|------------------------|-----------|---------------|
| 040287 | H05Z-K 01X0,5 SW  | 1,9                    | 9         | 4,8           |
| 040288 | H05Z-K 01X0,5 GG  | 1,9                    | 9         | 4,8           |
| 040433 | H05Z-K 01X0,5 GR  | 1,9                    | 9         | 4,8           |
| 040290 | H05Z-K 01X0,5 HB  | 1,9                    | 9         | 4,8           |
| 040289 | H05Z-K 01X0,5 BR  | 1,9                    | 9         | 4,8           |
| 040321 | H05Z-K 01X0,5 DB  | 1,9                    | 9         | 4,8           |
| 040320 | H05Z-K 01X0,5 RT  | 1,9                    | 9         | 4,8           |
| 040291 | H05Z-K 01X0,75 SW | 2,2                    | 13        | 7,2           |
| 040292 | H05Z-K 01X0,75 GG | 2,2                    | 13        | 7,2           |
| 040294 | H05Z-K 01X0,75 HB | 2,2                    | 13        | 7,2           |
| 040293 | H05Z-K 01X0,75 BR | 2,2                    | 13        | 7,2           |
| 040323 | H05Z-K 01X0,75 DB | 2,2                    | 13        | 7,2           |

| p/n    | part name         | D <sub>A</sub><br>[mm] | G<br>[kg] | Cu<br>[kg/km] |
|--------|-------------------|------------------------|-----------|---------------|
| 040322 | H05Z-K 01X0,75 RT | 2,2                    | 13        | 7,2           |
| 040698 | H05Z-K 01X0,75 OR | 2,2                    | 12        | 7,2           |
| 040295 | H05Z-K 01X1 SW    | 2,5                    | 15        | 9,6           |
| 040296 | H05Z-K 01X1 GG    | 2,5                    | 15        | 9,6           |
| 040434 | H05Z-K 01X1 GR    | 2,5                    | 15        | 9,6           |
| 040298 | H05Z-K 01X1 HB    | 2,5                    | 15        | 9,6           |
| 040297 | H05Z-K 01X1 BR    | 2,5                    | 15        | 9,6           |
| 040325 | H05Z-K 01X1 DB    | 2,5                    | 15        | 9,6           |
| 040324 | H05Z-K 01X1 RT    | 2,5                    | 15        | 9,6           |

Table: Technical characteristics

| p/n    | part name        | D <sub>A</sub><br>[mm] | G<br>[kg] | Cu<br>[kg/km] |
|--------|------------------|------------------------|-----------|---------------|
| 040264 | H07Z-K 01X1,5 SW | 3,1                    | 21        | 14,4          |
| 040265 | H07Z-K 01X1,5 GG | 3,1                    | 21        | 14,4          |
| 040267 | H07Z-K 01X1,5 HB | 3,1                    | 21        | 14,4          |
| 040266 | H07Z-K 01X1,5 BR | 3,1                    | 21        | 14,4          |
| 040327 | H07Z-K 01X1,5 DB | 3,1                    | 21        | 14,4          |
| 040326 | H07Z-K 01X1,5 RT | 3,1                    | 21        | 14,4          |
| 040268 | H07Z-K 01X2,5 SW | 3,8                    | 34        | 24            |
| 040269 | H07Z-K 01X2,5 GG | 3,8                    | 34        | 24            |

| p/n    | part name        | D <sub>A</sub><br>[mm] | G<br>[kg] | Cu<br>[kg/km] |
|--------|------------------|------------------------|-----------|---------------|
| 040271 | H07Z-K 01X2,5 HB | 3,8                    | 34        | 24            |
| 040270 | H07Z-K 01X2,5 BR | 3,8                    | 34        | 24            |
| 040329 | H07Z-K 01X2,5 DB | 3,8                    | 34        | 24            |
| 040328 | H07Z-K 01X2,5 RT | 3,8                    | 34        | 24            |
| 040272 | H07Z-K 01X4 SW   | 4,4                    | 47        | 38            |
| 040274 | H07Z-K 01X4 GG   | 4,4                    | 47        | 38            |
| 040276 | H07Z-K 01X4 HB   | 4,4                    | 47        | 38            |
| 040275 | H07Z-K 01X4 BR   | 4,4                    | 47        | 38            |

| p/n    | part name       | D <sub>A</sub><br>[mm] | G<br>[kg] | Cu<br>[kg/km] |
|--------|-----------------|------------------------|-----------|---------------|
| 040331 | H07Z-K 01X4 DB  | 4,4                    | 47        | 38            |
| 040330 | H07Z-K 01X4 RT  | 4,4                    | 47        | 38            |
| 040277 | H07Z-K 01X6 SW  | 5,4                    | 72        | 58            |
| 040278 | H07Z-K 01X6 GG  | 5,4                    | 72        | 58            |
| 040280 | H07Z-K 01X6 HB  | 5,4                    | 72        | 58            |
| 040279 | H07Z-K 01X6 BR  | 5,4                    | 72        | 58            |
| 040333 | H07Z-K 01X6 DB  | 5,4                    | 72        | 58            |
| 040332 | H07Z-K 01X6 RT  | 5,4                    | 72        | 58            |
| 040281 | H07Z-K 01X10 SW | 6,5                    | 120       | 96            |
| 040282 | H07Z-K 01X10 GG | 6,5                    | 120       | 96            |
| 040767 | H07Z-K 01X10 HB | 6,5                    | 120       | 96            |
| 040335 | H07Z-K 01X10 DB | 6,5                    | 120       | 96            |
| 040334 | H07Z-K 01X10 RT | 6,5                    | 120       | 96            |
| 040283 | H07Z-K 01X16 SW | 7,3                    | 170       | 154           |
| 040284 | H07Z-K 01X16 GG | 7,3                    | 170       | 154           |
| 040768 | H07Z-K 01X16 HB | 7,3                    | 170       | 154           |
| 040337 | H07Z-K 01X16 DB | 7,3                    | 170       | 154           |
| 040336 | H07Z-K 01X16 RT | 7,3                    | 170       | 154           |
| 040285 | H07Z-K 01X25 SW | 9,5                    | 260       | 240           |
| 040286 | H07Z-K 01X25 GG | 9,5                    | 260       | 240           |
| 040769 | H07Z-K 01X25 HB | 9,5                    | 260       | 240           |
| 040339 | H07Z-K 01X25 DB | 9,5                    | 260       | 240           |

| p/n    | part name        | D <sub>A</sub><br>[mm] | G<br>[kg] | Cu<br>[kg/km] |
|--------|------------------|------------------------|-----------|---------------|
| 040338 | H07Z-K 01X25 RT  | 9,5                    | 260       | 240           |
| 040301 | H07Z-K 01X35 SW  | 10,9                   | 360       | 336           |
| 040311 | H07Z-K 01X35 GG  | 10,9                   | 360       | 336           |
| 040302 | H07Z-K 01X50 SW  | 11,7                   | 515       | 480           |
| 040312 | H07Z-K 01X50 GG  | 11,7                   | 515       | 480           |
| 040303 | H07Z-K 01X70 SW  | 13,5                   | 710       | 672           |
| 040313 | H07Z-K 01X70 GG  | 13,5                   | 710       | 672           |
| 040304 | H07Z-K 01X95 SW  | 15,5                   | 940       | 912           |
| 040314 | H07Z-K 01X95 GG  | 15,5                   | 940       | 912           |
| 040305 | H07Z-K 01X120 SW | 17                     | 1180      | 1152          |
| 040315 | H07Z-K 01X120 GG | 17                     | 1180      | 1152          |
| 040306 | H07Z-K 01X150 SW | 19                     | 1600      | 1440          |
| 040316 | H07Z-K 01X150 GG | 19                     | 1600      | 1440          |
| 040308 | H07Z-K 01X185 SW | 21                     | 2100      | 1776          |
| 040317 | H07Z-K 01X185 GG | 21                     | 2100      | 1776          |
| 040309 | H07Z-K 01X240 SW | 24                     | 3015      | 2304          |
| 040318 | H07Z-K 01X240 GG | 24                     | 3015      | 2304          |
| 040310 | H07Z-K 01X300 SW |                        | 3398      | 2880          |
| 040319 | H07Z-K 01X300 GG |                        | 3398      | 2880          |

|    |                |
|----|----------------|
| DA | outer diameter |
| G  | weight         |
| Cu | copper         |