



# H07Z1-K

Low voltage 450/750 V flexible Cu conductor, HFFR insulated

## APPLICATION

For wiring of lamps, devices, switchgear cabinets and distribution boxes. For installation in tubes, on, in and under plaster as well as in closed installation ducts. In building with a high density of people or valuable assets. For use in dry rooms.

## TECHNICAL CHARACTERISTICS

CPR class: B2ca-s1,d1,a1  
 Test voltage: 2,5 kV  
 Rated voltage: 450/750 V  
 Bending radius (min): 5D  
 Min. laying temperature: 5°C  
 Ambience temp. range: -35°C to 35°C  
 Max. conductor temperature: 70°C  
 Max. short-circuit temperature: 160°C

## CONSTRUCTION

Conductors: Cu, class 5 according to EN 60228  
 Insulation: Halogen-free thermoplastic compound, type TI 7 according to EN 50353-7, UV resistant

## STANDARD

EN 50525-3-31

## CORE IDENTIFICATION

According to EN 50525-1

Insulation colors:

● Black ● Blue ● Brown ● Grey ● Orange ● Pink  
 ● Red ● Turquoise ● Violet ● White ● Green/Yellow

## CERTIFICATION



| NOMINAL CROSS-SECTION | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN THERMO ISOLATED WALL AT 30°) |         | CURRENT CAPACITY IN ELECTRO INSTALLATION PIPE AT 30°) |         | CURRENT CAPACITY ON THE WALL AT 30°) |         | INSULATION THICKNESS | OUTER DIAM. (APPROX.) |      | METAL WEIGHT | CABLE WEIGHT (APPROX.) |
|-----------------------|-------------------------|--|---------|---|---------|--------------------------------------|---------|----------------------|-----------------------|------|--------------|------------------------|
|                       |                         | A  |         | A   |         | A                                    |         |                      | mm                    |      |              |                        |
|                       |                         | 2 cores  | 3 cores | 2 cores   | 3 cores | 2 cores                              | 3 cores |                      | MIN                   | MAX  |              |                        |
| 1x1,5                 | 13,3                    | 19   | 17      | 23  | 20      | 24                                   | 22      | 0,7                  | 2,8                   | 3,5  | 14,4         | 22                     |
| 1x2,5                 | 7,98                    | 26   | 23      | 31  | 28      | 33                                   | 30      | 0,8                  | 3,4                   | 4,3  | 24,0         | 34                     |
| 1x4                   | 4,95                    | 35   | 31      | 42  | 37      | 45                                   | 40      | 0,8                  | 3,9                   | 4,9  | 38,4         | 51                     |
| 1x6                   | 3,30                    | 45   | 40      | 54  | 48      | 58                                   | 52      | 0,8                  | 4,4                   | 5,5  | 57,6         | 72                     |
| 1x10                  | 1,910                   | 61   | 54      | 75  | 66      | 80                                   | 71      | 1,0                  | 5,7                   | 7,1  | 96,0         | 119                    |
| 1x16                  | 1,210                   | 81   | 73      | 100   | 88      | 107                                  | 96      | 1,0                  | 6,7                   | 8,4  | 153,6        | 181                    |
| 1x25                  | 0,780                   | 106  | 95      | 133   | 117     | 138                                  | 119     | 1,2                  | 8,4                   | 10,6 | 240,0        | 280                    |
| 1x35                  | 0,554                   | 131  | 117     | 164   | 144     | 171                                  | 147     | 1,2                  | 9,7                   | 12,1 | 336,0        | 383                    |
| 1x50                  | 0,386                   | 158  | 141     | 198   | 175     | 209                                  | 179     | 1,4                  | 11,5                  | 14,4 | 480,0        | 545                    |
| 1x70                  | 0,272                   | 200  | 179     | 235   | 222     | 269                                  | 229     | 1,4                  | 13,2                  | 16,6 | 672,0        | 747                    |
| 1x95                  | 0,206                   | 241  | 216     | 306   | 269     | 328                                  | 278     | 1,6                  | 15,1                  | 18,8 | 912,0        | 1012                   |
| 1x120                 | 0,161                   | 278  | 249     | 354   | 312     | 382                                  | 322     | 1,6                  | 16,7                  | 20,9 | 1152,0       | 1263                   |
| 1x150                 | 0,129                   | 318  | 285     | 393   | 342     | 441                                  | 371     | 1,8                  | 18,6                  | 23,3 | 1440,0       | 1579                   |
| 1x185                 | 0,106                   | 362  | 324     | 449   | 384     | 506                                  | 424     | 2,0                  | 20,6                  | 25,8 | 1776,0       | 1948                   |
| 1x240                 | 0,0801                  | 424  | 380     | 528   | 450     | 599                                  | 500     | 2,2                  | 23,5                  | 29,4 | 2304,0       | 2519                   |

(current capacity according to DIN VDE 0298-4)

