

### Equipment Wire, 1000V, +200°C\*, NEMA HP-4

FEP

#### Properties:

Radiation resistance:  
10 E4 Gy

Flame retardant  
Low Smoke Generation

Suitable for use in:

Oils  
Fuels  
Acids  
Bases

#### Construction:

Conductor Silver Plated Copper (SPC)  
Insulation FEP  
Temperature rating (°C) -65 / +200\*  
Colours XX = Colour code  
Voltage 1000 V AC  
Test voltage 5000 V AC

\* Specification only rates temperature at: -65 / +150°C

\*\* Metric size. Construction in accordance with, but not included in NEMA HP-4

#### Colour code:

|         |    |
|---------|----|
| Black   | 00 |
| Brown   | 11 |
| Red     | 22 |
| Orange  | 33 |
| Yellow  | 44 |
| Green   | 55 |
| Blue    | 66 |
| Violet  | 77 |
| Grey    | 88 |
| White   | 99 |
| Pink    | 29 |
| Natural | 89 |

#### Notes:

All dimensions nominal (± 4%)  
unless otherwise stated.  
All dimensions in mm.

Air temperature correction factor for current rating:

KK

| °C     | 20   | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  |  |  |  |  |  |
|--------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|
| Factor | 1.08 | 1.00 | 0.92 | 0.84 | 0.75 | 0.65 | 0.55 | 0.42 | 0.28 |  |  |  |  |  |

Multicore correction factor for current rating:

| Cores  | 2 | 3    | 4    | 6    | 8    | 10   | 12   | 16   | 20   | 24   | 28   | 32   | 36   | 40   |
|--------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Factor | 1 | 0.88 | 0.80 | 0.69 | 0.62 | 0.59 | 0.55 | 0.51 | 0.48 | 0.43 | 0.41 | 0.39 | 0.38 | 0.36 |

| Type       | Size |       | Conductor  |        |                           | Finished Wire |               |                |               | Order Reference |
|------------|------|-------|------------|--------|---------------------------|---------------|---------------|----------------|---------------|-----------------|
|            | AWG  | mm²   | Stranding  | Wire Ø | DC Res @ 20°C (Ohms / km) | Core Ø        | Tolerance     | Weight (kg/km) | Amps (@ 40°C) |                 |
| KK 3201    | 32   | 0,031 | 1 x 0,203  | 0,20   | 544,6                     | 0,94          | ± 0,10        | 1,8            | 3             | 563xx3201       |
| KK 3207    | 32   | 0,035 | 7 x 0,079  | 0,24   | 557,7                     | 0,99          | ± 0,10        | 1,2            | 3             | 563xx3207       |
| KK 3219    | 32   | 0,040 | 19 x 0,051 | 0,24   | 515,1                     | 0,99          | ± 0,10        | 1,2            | 3             | 563xx3219       |
| KK 3001    | 30   | 0,049 | 1 x 0,254  | 0,25   | 347,8                     | 1,02          | + 0,10 - 0,11 | 1,3            | 4             | 563xx3001       |
| KK 3007    | 30   | 0,057 | 7 x 0,102  | 0,30   | 328,1                     | 1,07          | ± 0,10        | 1,5            | 4             | 563xx3007       |
| KK 3019    | 30   | 0,060 | 19 x 0,064 | 0,30   | 323,5                     | 1,07          | ± 0,10        | 1,5            | 4             | 563xx3019       |
| KK 2801    | 28   | 0,080 | 1 x 0,320  | 0,32   | 218,8                     | 1,09          | ± 0,10        | 1,7            | 5             | 563xx2801       |
| KK 2807    | 28   | 0,089 | 7 x 0,127  | 0,38   | 208,7                     | 1,14          | ± 0,10        | 2,0            | 5             | 563xx2807       |
| KK 2819    | 28   | 0,090 | 19 x 0,079 | 0,37   | 207,0                     | 1,14          | ± 0,10        | 2,0            | 5             | 563xx2819       |
| KK 2601    | 26   | 0,126 | 1 x 0,404  | 0,40   | 137,5                     | 1,17          | ± 0,10        | 2,3            | 7             | 563xx2601       |
| KK 2607    | 26   | 0,141 | 7 x 0,160  | 0,48   | 130,2                     | 1,24          | + 0,11 - 0,10 | 2,7            | 7             | 563xx2607       |
| KK 2619    | 26   | 0,155 | 19 x 0,102 | 0,48   | 122,4                     | 1,24          | + 0,11 - 0,10 | 2,8            | 7             | 563xx2619       |
| KK 2401    | 24   | 0,204 | 1 x 0,511  | 0,51   | 85,96                     | 1,27          | ± 0,10        | 3,1            | 10            | 563xx2401       |
| KK 2407    | 24   | 0,220 | 7 x 0,203  | 0,60   | 80,38                     | 1,37          | ± 0,10        | 3,7            | 10            | 563xx2407       |
| KK 2419    | 24   | 0,241 | 19 x 0,127 | 0,60   | 77,43                     | 1,37          | ± 0,10        | 3,9            | 10            | 563xx2419       |
| KK 0,25 ** | -    | 0,250 | 14 x 0,150 | 0,66   | 76,90                     | 1,38          | ± 0,10        | 4,0            | 11            | 563xx0025       |
| KK 2201    | 22   | 0,322 | 1 x 0,643  | 0,64   | 54,13                     | 1,41          | ± 0,11        | 4,4            | 14            | 563xx2201       |
| KK 2207    | 22   | 0,355 | 7 x 0,254  | 0,76   | 51,18                     | 1,52          | + 0,11 - 0,10 | 5,2            | 14            | 563xx2207       |
| KK 2219    | 22   | 0,382 | 19 x 0,160 | 0,76   | 48,56                     | 1,52          | + 0,11 - 0,10 | 5,5            | 14            | 563xx2219       |
| KK 0,5 **  | -    | 0,500 | 19 x 0,185 | 0,93   | 40,10                     | 1,68          | ± 0,10        | 6,5            | 17            | 563xx0050       |
| KK 2001    | 20   | 0,515 | 1 x 0,813  | 0,81   | 33,79                     | 1,57          | + 0,11 - 0,10 | 6,5            | 19            | 563xx2001       |
| KK 2007    | 20   | 0,563 | 7 x 0,320  | 0,96   | 32,19                     | 1,73          | ± 0,10        | 7,5            | 19            | 563xx2007       |
| KK 2019    | 20   | 0,597 | 19 x 0,203 | 0,96   | 29,86                     | 1,73          | ± 0,10        | 8,1            | 19            | 563xx2019       |
| KK 0,75 ** | -    | 0,750 | 19 x 0,225 | 1,13   | 26,70                     | 1,90          | ± 0,10        | 11             | 22            | 563xx0075       |
| KK 1801    | 18   | 0,817 | 1 x 1,024  | 1,02   | 21,39                     | 1,80          | + 0,13 - 0,12 | 9,6            | 27            | 563xx1801       |
| KK 1807    | 18   | 0,880 | 7 x 0,404  | 1,21   | 20,21                     | 2,01          | + 0,12 - 0,13 | 12             | 27            | 563xx1807       |
| KK 1819    | 18   | 0,963 | 19 x 0,254 | 1,20   | 19,00                     | 2,01          | + 0,12 - 0,13 | 12             | 27            | 563xx1819       |
| KK 1,0 **  | -    | 1,000 | 32 x 0,200 | 1,20   | 20,00                     | 2,05          | ± 0,12        | 12             | 27            | 563xx0100       |
| KK 1601    | 16   | 1,301 | 1 x 1,290  | 1,29   | 13,45                     | 2,11          | ± 0,15        | 15             | 32            | 563xx1601       |
| KK 1619    | 16   | 1,229 | 19 x 0,287 | 1,36   | 14,90                     | 2,26          | ± 0,15        | 16             | 32            | 563xx1619       |
| KK 1,5 **  | -    | 1,500 | 30 x 0,250 | 1,50   | 13,70                     | 2,35          | ± 0,15        | 20             | 35            | 563xx0150       |
| KK 1419    | 14   | 1,870 | 19 x 0,361 | 1,71   | 9,416                     | 2,69          | + 0,21 - 0,20 | 23             | 43            | 563xx1419       |
| KK 2,5 **  | -    | 2,500 | 50 x 0,250 | 1,95   | 8,210                     | 2,88          | ± 0,20        | 30             | 50            | 563xx0250       |
| KK 1219    | 12   | 3,022 | 19 x 0,455 | 2,15   | 5,938                     | 3,18          | + 0,20 - 0,21 | 33             | 59            | 563xx1219       |
| KK 1237    | 12   | 2,976 | 37 x 0,320 | 2,24   | 6,201                     | 3,12          | + 0,21 - 0,20 | 34             | 59            | 563xx1237       |
| KK 4 **    | -    | 4,000 | 56 x 0,300 | 2,48   | 5,090                     | 3,45          | ± 0,20        | 47             | 70            | 563xx0400       |
| KK 1037    | 10   | 4,650 | 37 x 0,404 | 2,82   | 3,904                     | 3,68          | + 0,21 - 0,20 | 52             | 81            | 563xx1037       |
| KK 6 **    | -    | 6,000 | 84 x 0,300 | 2,92   | 3,390                     | 4,24          | ± 0,20        | 66             | 92            | 563xx0600       |

Data provided indicates nominal values unless stated otherwise and is only valid for reference purposes at the time of publication and is subject to change without prior notice.

Ref: EQ-eKK-04  
Date: 2008-05-08  
Approved by: 

