

K TPC

FEP NEMA HP-4

600V AC

-65°C / +180°C

# Construction

| Wire        | Tin Plated Copper (TPC) |             |           |              | Insulation   | FEP         | Voltage      |              | 600/1000V AC Uo/U |             |            |             |
|-------------|-------------------------|-------------|-----------|--------------|--------------|-------------|--------------|--------------|-------------------|-------------|------------|-------------|
|             |                         |             |           |              |              |             | Test voltage |              | 3400V AC          |             |            |             |
| Colour (cc) | 00<br>Black             | 11<br>Brown | 22<br>Red | 33<br>Orange | 44<br>Yellow | 55<br>Green | 66<br>Blue   | 77<br>Violet | 88<br>Grey        | 99<br>White | 29<br>Pink | 89<br>Clear |

| Description | Size |            | Conductor   |                    |           | Finished Core |                 |               | Electrical      | Article Number |
|-------------|------|------------|-------------|--------------------|-----------|---------------|-----------------|---------------|-----------------|----------------|
|             | AWG  | CSA<br>mm² | stranding   | resistance<br>Ω/km | wire<br>Ø | core<br>Ø     | tolerance       | weight<br>g/m | amps at<br>40°C |                |
| K 3201 TPC  | 32   | 0.03       | 1 x 0.203   | 584.00             | 0.20      | 0.71          | ± 0.10          | 1.1           | 2               | 559cc3201      |
| K 3207 TPC  |      | 0.03       | 7 x 0.079   | 597.10             | 0.24      | 0.76          | ± 0.10          | 1.2           |                 | 559cc3207      |
| K 3219 TPC  |      | 0.04       | 19 x 0.051  | 554.50             | 0.24      | 0.76          | ± 0.10          | 1.3           |                 | 559cc3219      |
| K 3001 TPC  | 30   | 0.05       | 1 x 0.254   | 374.00             | 0.25      | 0.76          | ± 0.10          | 1.3           | 3               | 559cc3001      |
| K 3007 TPC  |      | 0.06       | 7 x 0.102   | 354.30             | 0.30      | 0.81          | ± 0.10          | 1.5           |                 | 559cc3007      |
| K 3019 TPC  |      | 0.06       | 19 x 0.064  | 347.80             | 0.30      | 0.81          | ± 0.10          | 1.5           |                 | 559cc3019      |
| K 2801 TPC  | 28   | 0.08       | 1 x 0.320   | 232.30             | 0.32      | 0.84          | ± 0.10          | 1.7           | 4               | 559cc2801      |
| K 2807 TPC  |      | 0.09       | 7 x 0.127   | 223.80             | 0.38      | 0.89          | ± 0.10          | 2.0           |                 | 559cc2807      |
| K 2819 TPC  |      | 0.09       | 19 x 0.079  | 222.10             | 0.37      | 0.89          | ± 0.10          | 2.0           |                 | 559cc2819      |
| K 2601 TPC  | 26   | 0.13       | 1 x 0.404   | 146.00             | 0.40      | 0.91          | + 0.11   - 0.10 | 2.3           | 6               | 559cc2601      |
| K 2607 TPC  |      | 0.14       | 7 x 0.160   | 139.80             | 0.48      | 0.99          | ± 0.10          | 2.7           |                 | 559cc2607      |
| K 2619 TPC  |      | 0.15       | 19 x 0.102  | 131.60             | 0.48      | 0.99          | ± 0.10          | 2.8           |                 | 559cc2619      |
| K 2401 TPC  | 24   | 0.20       | 1 x 0.511   | 89.20              | 0.51      | 1.02          | + 0.11   - 0.10 | 3.1           | 8               | 559cc2401      |
| K 2407 TPC  |      | 0.23       | 7 x 0.203   | 86.00              | 0.60      | 1.12          | ± 0.10          | 3.7           |                 | 559cc2407      |
| K 2419 TPC  |      | 0.24       | 19 x 0.127  | 83.30              | 0.60      | 1.12          | ± 0.10          | 3.9           |                 | 559cc2419      |
| K 2201 TPC  | 22   | 0.32       | 1 x 0.643   | 56.40              | 0.64      | 1.16          | + 0.11   - 0.12 | 4.4           | 12              | 559cc2201      |
| K 2207 TPC  |      | 0.35       | 7 x 0.254   | 54.80              | 0.76      | 1.27          | ± 0.10          | 5.2           |                 | 559cc2207      |
| K 2219 TPC  |      | 0.38       | 19 x 0.160  | 52.20              | 0.76      | 1.27          | ± 0.10          | 5.5           |                 | 559cc2219      |
| K 2001 TPC  | 20   | 0.52       | 1 x 0.813   | 35.10              | 0.81      | 1.32          | ± 0.10          | 6.5           | 16              | 559cc2001      |
| K 2007 TPC  |      | 0.56       | 7 x 0.320   | 34.10              | 0.96      | 1.47          | ± 0.10          | 7.5           |                 | 559cc2007      |
| K 2019 TPC  |      | 0.62       | 19 x 0.203  | 32.00              | 0.96      | 1.47          | ± 0.10          | 8.1           |                 | 559cc2019      |
| K 1801 TPC  | 18   | 0.82       | 1 x 1.024   | 22.20              | 1.02      | 1.55          | ± 0.13          | 9.6           | 22              | 559cc1801      |
| K 1807 TPC  |      | 0.90       | 7 x 0.404   | 21.50              | 1.21      | 1.75          | + 0.13   - 0.12 | 11.1          |                 | 559cc1807      |
| K 1819 TPC  |      | 0.96       | 19 x 0.254  | 20.40              | 1.20      | 1.75          | + 0.13   - 0.12 | 11.4          |                 | 559cc1819      |
| K 1601 TPC  | 16   | 1.31       | 1 x 1.290   | 14.00              | 1.29      | 1.88          | ± 0.18          | 14.7          | 27              | 559cc1601      |
| K 1619 TPC  |      | 1.23       | 19 x 0.287  | 15.80              | 1.36      | 2.03          | ± 0.18          | 14.8          |                 | 559cc1619      |
| K 1419 TPC  | 14   | 1.94       | 19 x 0.361  | 10.00              | 1.71      | 2.41          | + 0.18   - 0.17 | 22.3          | 36              | 559cc1419      |
| K 1219 TPC  | 12   | 3.08       | 19 x 0.455  | 6.30               | 2.15      | 2.90          | + 0.17   - 0.18 | 34.0          | 50              | 559cc1219      |
| K 1237 TPC  |      | 2.98       | 37 x 0.320  | 6.59               | 2.24      | 2.84          | + 0.18   - 0.17 | 34.2          |                 | 559cc1237      |
| K 1037 TPC  | 10   | 4.74       | 37 x 0.404  | 4.13               | 2.82      | 3.40          | + 0.18   - 0.17 | 50.7          | 68              | 559cc1037      |
| K 8133 TPC  | 8    | 8.61       | 133 x 0.287 | 2.30               | 4.10      | 4.88          | + 0.17   - 0.18 | 90.7          | 109             | 559cc8133      |



## Application

FEP is a thin wall insulation and jacket material intended for applications up to 200°C. FEP has good electrical properties and excellent fire performance. It is the most flexible of the fluoropolymer insulations and is ideal for use in long lengths. FEP is primarily used in data and coaxial cables, as well as for medical applications and control / signal cables for high temperature use.

- Flame retardant: IEC 60332-1, IEC 60332-3-24
- Low smoke generation: IEC 61034-2
- RoHS compliant
- In accordance with: NEMA HP-4

# K TPC (Metric sizes)

FEP NEMA HP-4

600V AC

-65°C / +180°C

## Construction

|             |                         |             |           |              |              |             |            |              |            |                                |            |             |
|-------------|-------------------------|-------------|-----------|--------------|--------------|-------------|------------|--------------|------------|--------------------------------|------------|-------------|
| Wire        | Tin Plated Copper (TPC) |             |           |              |              | Insulation  | FEP        | Voltage      |            | 600/1000V AC U <sub>0</sub> /U |            |             |
|             |                         |             |           |              |              |             |            | Test voltage |            | 3400V AC                       |            |             |
| Colour (cc) | 00<br>Black             | 11<br>Brown | 22<br>Red | 33<br>Orange | 44<br>Yellow | 55<br>Green | 66<br>Blue | 77<br>Violet | 88<br>Grey | 99<br>White                    | 29<br>Pink | 89<br>Clear |

| Description | Size |                        | Conductor                |                    |              | Finished Core |           |               | Electrical      | Article Number         |
|-------------|------|------------------------|--------------------------|--------------------|--------------|---------------|-----------|---------------|-----------------|------------------------|
|             | AWG  | CSA<br>mm <sup>2</sup> | stranding                | resistance<br>Ω/km | wire<br>Ø    | core<br>Ø     | tolerance | weight<br>g/m | amps at<br>40°C |                        |
| K 0.25 TPC  | -    | 0.25                   | 14 x 0.150               | 76.90              | 0.66         | 1.15          | ± 0.05    | 4.0           | 9               | 559cc0025              |
| K 0.5 TPC   | -    | 0.50                   | 16 x 0.200<br>19 x 0.185 | 40.10              | 0.88         | 1.45          | ± 0.05    | 7.0           | 14              | 559cc0050              |
| K 0.75 TPC  | -    | 0.75                   | 24 x 0.200<br>19 x 0.225 | 26.70              | 1.05<br>1.13 | 1.65          | ± 0.05    | 10.0          | 19              | 559cc0075<br>559cc1975 |
| K 1.0 TPC   | -    | 1.00                   | 32 x 0.200               | 20.00              | 1.20         | 1.80          | ± 0.05    | 13.0          | 22              | 559cc0100              |
| K 1.5 TPC   | -    | 1.50                   | 30 x 0.250               | 13.70              | 1.50         | 2.08          | ± 0.05    | 17.0          | 30              | 559cc0150              |
| K 2.5 TPC   | -    | 2.50                   | 50 x 0.250               | 8.21               | 1.95         | 2.58          | ± 0.05    | 28.0          | 42              | 559cc0250              |
| K 4 TPC     | -    | 4.00                   | 56 x 0.300               | 5.09               | 2.48         | 3.13          | ± 0.05    | 42.0          | 59              | 559cc0400              |
| K 6 TPC     | -    | 6.00                   | 84 x 0.300               | 3.39               | 2.92         | 3.83          | ± 0.05    | 62.0          | 77              | 559cc0600              |



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- Low smoke generation: IEC 61034-2
- RoHS compliant
- In accordance with: NEMA HP-4

K

FEP NEMA HP-4

600V AC

-65°C / +200°C

## Construction

|             |                            |             |           |              |              |             |              |              |                                |             |            |             |
|-------------|----------------------------|-------------|-----------|--------------|--------------|-------------|--------------|--------------|--------------------------------|-------------|------------|-------------|
| Wire        | Silver Plated Copper (SPC) |             |           |              | Insulation   | FEP         | Voltage      |              | 600/1000V AC U <sub>0</sub> /U |             |            |             |
|             |                            |             |           |              |              |             | Test voltage |              | 3400V AC                       |             |            |             |
| Colour (cc) | 00<br>Black                | 11<br>Brown | 22<br>Red | 33<br>Orange | 44<br>Yellow | 55<br>Green | 66<br>Blue   | 77<br>Violet | 88<br>Grey                     | 99<br>White | 29<br>Pink | 89<br>Clear |

| Description | Size |                        | Conductor   |                    |           | Finished Core |               |               | Electrical      | Article Number |
|-------------|------|------------------------|-------------|--------------------|-----------|---------------|---------------|---------------|-----------------|----------------|
|             | AWG  | CSA<br>mm <sup>2</sup> | stranding   | resistance<br>Ω/km | wire<br>Ø | core<br>Ø     | tolerance     | weight<br>g/m | amps at<br>40°C |                |
| K 3201      | 32   | 0.03                   | 1 x 0.203   | 584.00             | 0.20      | 0.71          | ± 0.10        | 1.1           | 3               | 562cc3201      |
| K 3207      |      | 0.03                   | 7 x 0.079   | 597.10             | 0.24      | 0.76          | ± 0.10        | 1.2           |                 | 562cc3207      |
| K 3219      |      | 0.04                   | 19 x 0.051  | 554.50             | 0.24      | 0.76          | ± 0.10        | 1.3           |                 | 562cc3219      |
| K 3001      | 30   | 0.05                   | 1 x 0.254   | 374.00             | 0.25      | 0.76          | ± 0.10        | 1.3           | 4               | 562cc3001      |
| K 3007      |      | 0.06                   | 7 x 0.102   | 354.30             | 0.30      | 0.81          | ± 0.10        | 1.5           |                 | 562cc3007      |
| K 3019      |      | 0.06                   | 19 x 0.064  | 347.80             | 0.30      | 0.81          | ± 0.10        | 1.5           |                 | 562cc3019      |
| K 2801      | 28   | 0.08                   | 1 x 0.320   | 232.30             | 0.32      | 0.84          | ± 0.10        | 1.7           | 5               | 562cc2801      |
| K 2807      |      | 0.09                   | 7 x 0.127   | 223.80             | 0.38      | 0.89          | ± 0.10        | 2.0           |                 | 562cc2807      |
| K 2819      |      | 0.09                   | 19 x 0.079  | 222.10             | 0.37      | 0.89          | ± 0.10        | 2.0           |                 | 562cc2819      |
| K 2601      | 26   | 0.13                   | 1 x 0.404   | 146.00             | 0.40      | 0.91          | + 0.11 - 0.10 | 2.3           | 7               | 562cc2601      |
| K 2607      |      | 0.14                   | 7 x 0.160   | 139.80             | 0.48      | 0.99          | ± 0.10        | 2.7           |                 | 562cc2607      |
| K 2619      |      | 0.15                   | 19 x 0.102  | 131.60             | 0.48      | 0.99          | ± 0.10        | 2.8           |                 | 562cc2619      |
| K 2401      | 24   | 0.20                   | 1 x 0.511   | 89.20              | 0.51      | 1.02          | + 0.10 - 0.11 | 3.1           | 10              | 562cc2401      |
| K 2407      |      | 0.23                   | 7 x 0.203   | 86.00              | 0.60      | 1.12          | ± 0.10        | 3.7           |                 | 562cc2407      |
| K 2419      |      | 0.24                   | 19 x 0.127  | 83.30              | 0.60      | 1.12          | ± 0.10        | 3.9           |                 | 562cc2419      |
| K 2201      | 22   | 0.32                   | 1 x 0.643   | 56.40              | 0.64      | 1.16          | + 0.11 - 0.12 | 4.4           | 14              | 562cc2201      |
| K 2207      |      | 0.35                   | 7 x 0.254   | 54.80              | 0.76      | 1.27          | ± 0.10        | 5.2           |                 | 562cc2207      |
| K 2219      |      | 0.38                   | 19 x 0.160  | 52.20              | 0.76      | 1.27          | ± 0.10        | 5.5           |                 | 562cc2219      |
| K 2001      | 20   | 0.52                   | 1 x 0.813   | 35.10              | 0.81      | 1.32          | ± 0.10        | 6.5           | 19              | 562cc2001      |
| K 2007      |      | 0.56                   | 7 x 0.320   | 34.10              | 0.96      | 1.47          | ± 0.10        | 7.5           |                 | 562cc2007      |
| K 2019      |      | 0.62                   | 19 x 0.203  | 32.00              | 0.96      | 1.47          | ± 0.10        | 8.1           |                 | 562cc2019      |
| K 1801      | 18   | 0.82                   | 1 x 1.024   | 22.20              | 1.02      | 1.55          | ± 0.13        | 9.6           | 27              | 562cc1801      |
| K 1807      |      | 0.90                   | 7 x 0.404   | 21.50              | 1.21      | 1.75          | + 0.13 - 0.12 | 11.1          |                 | 562cc1807      |
| K 1819      |      | 0.96                   | 19 x 0.254  | 20.40              | 1.20      | 1.75          | + 0.13 - 0.12 | 11.4          |                 | 562cc1819      |
| K 1601      | 16   | 1.31                   | 1 x 1.290   | 14.00              | 1.29      | 1.88          | ± 0.18        | 14.7          | 32              | 562cc1601      |
| K 1619      |      | 1.23                   | 19 x 0.287  | 15.80              | 1.36      | 2.03          | ± 0.18        | 14.8          |                 | 562cc1619      |
| K 1419      | 14   | 1.94                   | 19 x 0.361  | 10.00              | 1.71      | 2.41          | + 0.18 - 0.17 | 22.3          | 43              | 562cc1419      |
| K 1219      | 12   | 3.08                   | 19 x 0.455  | 6.30               | 2.15      | 2.90          | + 0.17 - 0.18 | 34.0          | 59              | 562cc1219      |
| K 1237      |      | 2.98                   | 37 x 0.320  | 6.59               | 2.24      | 2.84          | + 0.18 - 0.17 | 34.2          |                 | 562cc1237      |
| K 1037      | 10   | 4.74                   | 37 x 0.404  | 4.13               | 2.82      | 3.40          | + 0.18 - 0.17 | 50.7          | 81              | 562cc1037      |
| K 8133      | 8    | 8.61                   | 133 x 0.287 | 2.30               | 4.10      | 4.88          | + 0.17 - 0.18 | 90.7          | 129             | 562cc8133      |



## Application

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K (Metric sizes)

FEP NEMA HP-4

600V AC

-65°C / +200°C

## Construction

|             |                            |             |           |              |              |             |            |              |            |                                |            |             |
|-------------|----------------------------|-------------|-----------|--------------|--------------|-------------|------------|--------------|------------|--------------------------------|------------|-------------|
| Wire        | Silver Plated Copper (SPC) |             |           |              |              | Insulation  | FEP        | Voltage      |            | 600/1000V AC U <sub>0</sub> /U |            |             |
|             |                            |             |           |              |              |             |            | Test voltage |            | 3400V AC                       |            |             |
| Colour (cc) | 00<br>Black                | 11<br>Brown | 22<br>Red | 33<br>Orange | 44<br>Yellow | 55<br>Green | 66<br>Blue | 77<br>Violet | 88<br>Grey | 99<br>White                    | 29<br>Pink | 89<br>Clear |

| Description | Size |                        | Conductor  |                    |           | Finished Core |           |               | Electrical | Article Number |
|-------------|------|------------------------|------------|--------------------|-----------|---------------|-----------|---------------|------------|----------------|
|             | AWG  | CSA<br>mm <sup>2</sup> | stranding  | resistance<br>Ω/km | wire<br>Ø | core<br>Ø     | tolerance | weight<br>g/m |            |                |
| K 0.25      | -    | 0.25                   | 14 x 0.150 | 76.90              | 0.66      | 1.15          | ± 0.05    | 4.0           | 10         | 562cc0025      |
| K 0.5       | -    | 0.50                   | 19 x 0.185 | 40.10              | 0.88      | 1.45          | ± 0.05    | 7.0           | 17         | 562cc1950      |
| K 0.75      | -    | 0.75                   | 19 x 0.225 | 26.70              | 1.13      | 1.65          | ± 0.05    | 10.0          | 22         | 562cc1975      |
| K 1.0       | -    | 1.00                   | 32 x 0.200 | 20.00              | 1.20      | 1.80          | ± 0.05    | 13.0          | 27         | 562cc0100      |
| K 1.5       | -    | 1.50                   | 30 x 0.250 | 13.70              | 1.50      | 2.08          | ± 0.05    | 17.0          | 35         | 562cc0150      |
| K 2.5       | -    | 2.50                   | 50 x 0.250 | 8.21               | 1.95      | 2.58          | ± 0.05    | 28.0          | 50         | 562cc0250      |
| K 4         | -    | 4.00                   | 56 x 0.300 | 5.09               | 2.48      | 3.13          | ± 0.05    | 42.0          | 70         | 562cc0400      |
| K 6         | -    | 6.00                   | 84 x 0.300 | 3.39               | 2.92      | 3.83          | ± 0.05    | 62.0          | 92         | 562cc0600      |



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