

KT TPC

FEP NEMA HP-4

250V AC

-65°C / +180°C

## Construction

|             |                         |             |           |              |              |             |              |              |                                            |             |            |             |
|-------------|-------------------------|-------------|-----------|--------------|--------------|-------------|--------------|--------------|--------------------------------------------|-------------|------------|-------------|
| Wire        | Tin Plated Copper (TPC) |             |           |              | Insulation   | FEP         | Voltage      |              | 250/500V AC U <sub>o</sub> /U <sub>i</sub> |             |            |             |
|             |                         |             |           |              |              |             | Test voltage |              | 2500V 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  | stranding                | resistance | wire         | core          | tolerance |        | weight     | amps at 40°C   |                        |
|             |      | mm²  |                          | Ω/km       | Ø            | Ø             |           |        | g/m        |                |                        |
| KT 3201 TPC | 32   | 0.03 | 1 x 0.203                | 584.00     | 0.20         | 0.51          | ± 0.05    |        | 0.7        | 2              | 558cc3201              |
| KT 3207 TPC |      | 0.03 | 7 x 0.079                | 597.10     | 0.24         | 0.56          | ± 0.05    |        | 0.8        |                | 558cc3207              |
| KT 3219 TPC |      | 0.04 | 19 x 0.051               | 554.50     | 0.24         | 0.56          | ± 0.05    |        | 0.8        |                | 558cc3219              |
| KT 3001 TPC | 30   | 0.05 | 1 x 0.254                | 374.00     | 0.25         | 0.56          | ± 0.05    |        | 0.9        | 3              | 558cc3001              |
| KT 3007 TPC |      | 0.06 | 7 x 0.102                | 354.30     | 0.30         | 0.61          | ± 0.05    |        | 1.0        |                | 558cc3007              |
| KT 3019 TPC |      | 0.06 | 19 x 0.064               | 347.80     | 0.30         | 0.61          | ± 0.05    |        | 1.0        |                | 558cc3019              |
| KT 2801 TPC | 28   | 0.08 | 1 x 0.320                | 232.30     | 0.32         | 0.64          | +0.05     | - 0.06 | 1.5        | 4              | 558cc2801              |
| KT 2807 TPC |      | 0.09 | 7 x 0.127                | 223.80     | 0.38         | 0.69          | ± 0.05    |        | 1.4        |                | 558cc2807              |
| KT 2819 TPC |      | 0.09 | 19 x 0.079               | 222.10     | 0.37         | 0.69          | ± 0.05    |        | 1.2        |                | 558cc2819              |
| KT 2601 TPC | 26   | 0.13 | 1 x 0.404                | 146.00     | 0.40         | 0.71          | ± 0.05    |        | 1.7        | 6              | 558cc2601              |
| KT 2607 TPC |      | 0.14 | 7 x 0.160                | 139.80     | 0.48         | 0.79          | ± 0.05    |        | 2.0        |                | 558cc2607              |
| KT 2619 TPC |      | 0.15 | 19 x 0.102               | 131.60     | 0.48         | 0.79          | ± 0.05    |        | 2.1        |                | 558cc2619              |
| KT 2401 TPC | 24   | 0.20 | 1 x 0.511                | 89.20      | 0.51         | 0.81          | ± 0.05    |        | 2.6        | 8              | 558cc2401              |
| KT 2407 TPC |      | 0.23 | 7 x 0.203                | 86.00      | 0.60         | 0.91          | + 0.06    | - 0.05 | 2.9        |                | 558cc2407              |
| KT 2419 TPC |      | 0.24 | 19 x 0.127               | 83.30      | 0.60         | 0.91          | +0.06     | - 0.05 | 2.9        |                | 558cc2419              |
| KT 0.25 TPC | -    | 0.25 | 14 x 0.150               | 76.90      | 0.66         | 0.95          | ± 0.05    |        | 4.0        | 9              | 558cc0025              |
| KT 2201 TPC | 22   | 0.32 | 1 x 0.643                | 56.40      | 0.64         | 0.95          | + 0.07    | - 0.06 | 3.8        | 12             | 558cc2201              |
| KT 2207 TPC |      | 0.35 | 7 x 0.254                | 54.80      | 0.76         | 1.07          | ± 0.05    |        | 4.4        |                | 558cc2207              |
| KT 2219 TPC |      | 0.38 | 19 x 0.160               | 52.20      | 0.76         | 1.07          | ± 0.05    |        | 4.4        |                | 558cc2219              |
| KT 0.50 TPC | -    | 0.50 | 16 x 0.200<br>19 x 0.185 | 40.10      | 0.88         | 1.25          | ± 0.05    |        | 6.0        | 14             | 558cc0050              |
| KT 2001 TPC | 20   | 0.52 | 1 x 0.813                | 35.10      | 0.81         | 1.12          | ± 0.05    |        | 5.6        | 16             | 558cc2001              |
| KT 2007 TPC |      | 0.56 | 7 x 0.320                | 34.10      | 0.96         | 1.27          | ± 0.05    |        | 6.3        |                | 558cc2007              |
| KT 2019 TPC |      | 0.62 | 19 x 0.203               | 32.00      | 0.96         | 1.27          | ± 0.05    |        | 6.6        |                | 558cc2019              |
| KT 0.75 TPC | -    | 0.75 | 24 x 0.200<br>19 x 0.225 | 26.70      | 1.05<br>1.13 | 1.45          | ± 0.05    |        | 9          | 19             | 558cc0075<br>558cc1975 |



## 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

KT

FEP NEMA HP-4

250V AC

-65°C / +200°C

### Construction

| Wire        | Silver Plated Copper (SPC) |             |           |              | Insulation   | FEP         | Voltage      |              | 250/500V AC U <sub>0</sub> /U <sub>i</sub> |             |            |             |
|-------------|----------------------------|-------------|-----------|--------------|--------------|-------------|--------------|--------------|--------------------------------------------|-------------|------------|-------------|
|             |                            |             |           |              |              |             | Test voltage |              | 2500V 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  | stranding  | resistance | wire | core          | tolerance       |     | weight     | amps at<br>40°C |           |
|             |      | mm²  |            | Ω/km       | Ø    | Ø             |                 |     | g/m        |                 |           |
| KT 3201     | 32   | 0.03 | 1 × 0.203  | 584.00     | 0.20 | 0.51          | ± 0.05          |     | 0.7        | 3               | 561cc3201 |
| KT 3207     |      | 0.03 | 7 × 0.079  | 597.10     | 0.24 | 0.56          | ± 0.05          |     | 0.8        |                 | 561cc3207 |
| KT 3219     |      | 0.04 | 19 × 0.051 | 554.50     | 0.24 | 0.56          | ± 0.05          |     | 0.8        |                 | 561cc3219 |
| KT 3001     | 30   | 0.05 | 1 × 0.254  | 374.00     | 0.25 | 0.56          | ± 0.05          |     | 0.9        | 4               | 561cc3001 |
| KT 3007     |      | 0.06 | 7 × 0.102  | 354.30     | 0.30 | 0.61          | ± 0.05          |     | 1.0        |                 | 561cc3007 |
| KT 3019     |      | 0.06 | 19 × 0.064 | 347.80     | 0.30 | 0.61          | ± 0.05          |     | 1.0        |                 | 561cc3019 |
| KT 2801     | 28   | 0.08 | 1 × 0.320  | 232.30     | 0.32 | 0.64          | + 0.05   - 0.06 | 1.5 | 5          | 561cc2801       |           |
| KT 2807     |      | 0.09 | 7 × 0.127  | 223.80     | 0.38 | 0.69          | ± 0.05          |     |            | 1.4             | 561cc2807 |
| KT 2819     |      | 0.09 | 19 × 0.079 | 222.10     | 0.37 | 0.69          | ± 0.05          |     |            | 1.2             | 561cc2819 |
| KT 2601     | 26   | 0.13 | 1 × 0.404  | 146.00     | 0.40 | 0.71          | ± 0.05          |     | 1.7        | 7               | 561cc2601 |
| KT 2607     |      | 0.14 | 7 × 0.160  | 139.80     | 0.48 | 0.79          | ± 0.05          |     | 2.0        |                 | 561cc2607 |
| KT 2619     |      | 0.15 | 19 × 0.102 | 131.60     | 0.48 | 0.79          | ± 0.05          |     | 2.1        |                 | 561cc2619 |
| KT 2401     | 24   | 0.20 | 1 × 0.511  | 89.20      | 0.51 | 0.81          | ± 0.05          |     | 2.6        | 10              | 561cc2401 |
| KT 2407     |      | 0.23 | 7 × 0.203  | 86.00      | 0.60 | 0.91          | + 0.06   - 0.05 | 2.9 | 561cc2407  |                 |           |
| KT 2419     |      | 0.24 | 19 × 0.127 | 83.30      | 0.60 | 0.91          | + 0.06   - 0.05 | 2.9 | 561cc2419  |                 |           |
| KT 0.25     | -    | 0.25 | 14 × 0.150 | 76.90      | 0.66 | 0.95          | ± 0.05          |     | 4.0        | 10              | 561cc0025 |
| KT 2201     | 22   | 0.32 | 1 × 0.643  | 56.40      | 0.64 | 0.95          | + 0.07   - 0.06 | 3.8 | 14         | 561cc2201       |           |
| KT 2207     |      | 0.35 | 7 × 0.254  | 54.80      | 0.76 | 1.07          | ± 0.05          |     |            | 4.4             | 561cc2207 |
| KT 2219     |      | 0.38 | 19 × 0.160 | 52.20      | 0.76 | 1.07          | ± 0.05          |     |            | 4.4             | 561cc2219 |
| KT 0.50     | -    | 0.50 | 19 × 0.185 | 40.10      | 0.88 | 1.25          | ± 0.05          |     | 6.0        | 17              | 561cc1950 |
| KT 2001     | 20   | 0.52 | 1 × 0.813  | 35.10      | 0.81 | 1.12          | ± 0.05          |     | 5.6        | 19              | 561cc2001 |
| KT 2007     |      | 0.56 | 7 × 0.320  | 34.10      | 0.96 | 1.27          | ± 0.05          |     | 6.3        |                 | 561cc2007 |
| KT 2019     |      | 0.62 | 19 × 0.203 | 32.00      | 0.96 | 1.27          | ± 0.05          |     | 6.6        |                 | 561cc2019 |
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