

# PTFE // ET, E & EE

PTFE insulated cores, with metric conductors, based on: NEMA HP-3  
Intended for use as internal wiring of equipment

250/500V AC U<sub>0</sub>/U

-65°C to +200°C

| Description                           | Conductor |      |                               |               |      | Finished Core |           |       |        |         | Article Number                                                                      |
|---------------------------------------|-----------|------|-------------------------------|---------------|------|---------------|-----------|-------|--------|---------|-------------------------------------------------------------------------------------|
| ET = extruded<br>&<br>H-RET = wrapped | Size      |      | Silver Plated Copper<br>(SPC) |               |      | PTFE          |           |       | Weight | Amps    |  |
|                                       |           |      | Stranding                     | DC resistance | Wire | Core          | Tolerance |       |        |         |                                                                                     |
|                                       | AWG       | mm²  |                               |               | Ω/km | Nom Ø         | Nom Ø     | Min Ø | Max Ø  | Nom g/m |                                                                                     |
| ET 0.50                               | -         | 0.50 | 19 x 0.185                    | 35.9          | 0.88 | 1.25          | 1.20      | 1.30  | 6.0    | 22      | 511 / 311cc0050                                                                     |
| ET 0.75                               | -         | 0.75 | 19 x 0.226                    | 24.3          | 1.13 | 1.45          | 1.40      | 1.50  | 9.0    | 29      | 511 / 311cc0075                                                                     |

600/1000V AC U<sub>0</sub>/U

-65°C to +200°C

| Description                         | Conductor |      |                               |               |      | Finished Core |           |       |        |         | Article Number                                                                      |
|-------------------------------------|-----------|------|-------------------------------|---------------|------|---------------|-----------|-------|--------|---------|-------------------------------------------------------------------------------------|
| E = extruded<br>&<br>H-RE = wrapped | Size      |      | Silver Plated Copper<br>(SPC) |               |      | PTFE          |           |       | Weight | Amps    |  |
|                                     |           |      | Stranding                     | DC resistance | Wire | Core          | Tolerance |       |        |         |                                                                                     |
|                                     | AWG       | mm²  |                               |               | Ω/km | Nom Ø         | Nom Ø     | Min Ø | Max Ø  | Nom g/m |                                                                                     |
| E 0.5                               | -         | 0.50 | 19 x 0.185                    | 35.9          | 0.88 | 1.45          | 1.40      | 1.50  | 7.0    | 23      | 512 / 312cc0050                                                                     |
| E 0.75                              | -         | 0.75 | 19 x 0.226                    | 24.3          | 1.13 | 1.65          | 1.60      | 1.70  | 10     | 29      | 512 / 312cc0075                                                                     |
| E 1.5                               | -         | 1.50 | 19 x 0.320                    | 13.7          | 1.50 | 2.15          | 2.10      | 2.20  | 18     | 45      | 512 / 312cc0150                                                                     |
| E 2.5                               | -         | 2.50 | 61 x 0.225                    | 8.21          | 1.95 | 2.58          | 2.53      | 2.63  | 28     | 61      | 512 / 312cc0250                                                                     |

1000/1900V AC U<sub>0</sub>/U

-65°C to +200°C

| Description                        | Conductor |      |                            |               |      | Finished Core |           |       |        |         | Article Number                                                                       |
|------------------------------------|-----------|------|----------------------------|---------------|------|---------------|-----------|-------|--------|---------|--------------------------------------------------------------------------------------|
| EE = extruded &<br>H-REE = wrapped | Size      |      | Silver Plated Copper (SPC) |               |      | PTFE          |           |       | Weight | Amps    |  |
|                                    |           |      | Stranding                  | DC resistance | Wire | Core          | Tolerance |       |        |         |                                                                                      |
|                                    | AWG       | mm²  |                            |               | Ω/km | Nom Ø         | Nom Ø     | Min Ø | Max Ø  | Nom g/m |                                                                                      |
| EE 0.50                            | -         | 0.50 | 19 x 0.185                 | 40.1          | 0.88 | 1.68          | 1.58      | 1.78  | 7.0    | 23      | 513 / 313cc0050                                                                      |
| EE 0.75                            | -         | 0.75 | 24 x 0.200                 | 26.7          | 1.05 | 1.90          | 1.80      | 2.00  | 11     | 29      | 513 / 313cc0075                                                                      |
| EE 1.0                             | -         | 1.00 | 32 x 0.200                 | 20.0          | 1.20 | 2.05          | 1.93      | 2.17  | 12     | 35      | 513 / 313cc0100                                                                      |
| EE 1.5                             | -         | 1.50 | 30 x 0.250                 | 13.7          | 1.50 | 2.35          | 2.20      | 2.50  | 20     | 44      | 513 / 313cc0150                                                                      |
| EE 2.5                             | -         | 2.50 | 50 x 0.250                 | 8.21          | 1.95 | 2.88          | 2.68      | 3.08  | 30     | 61      | 513 / 313cc0250                                                                      |
| H-REE 4                            | -         | 4.00 | 56 x 0.300                 | 5.09          | 2.48 | 3.45          | 3.25      | 3.65  | 47     | 83      | 313cc0400                                                                            |
| H-REE 6                            | -         | 6.00 | 84 x 0.300                 | 3.39          | 2.92 | 4.24          | 3.99      | 4.49  | 66     | 106     | 313cc0600                                                                            |
| H-REE 10                           | -         | 10.0 | 80 x 0.400                 | 1.95          | 3.93 | 5.48          | 5.28      | 5.68  | 112    | 150     | 313cc1000                                                                            |

Many sizes available in both extruded 'E' and tape-wrapped 'H-RE' variants. Change the first digit of the article number to select: 513 = extruded 313 = tape-wrapped.  
Sizes 4mm<sup>2</sup> and above shall be tape-wrapped only.

## Identification

| Colours - replace 'cc' in the article number with 2 digits below |       |     |        |        |       |      |        |      |       |      |       |
|------------------------------------------------------------------|-------|-----|--------|--------|-------|------|--------|------|-------|------|-------|
| 00                                                               | 11    | 22  | 33     | 44     | 55    | 66   | 77     | 88   | 99    | 29   | 89    |
| Black                                                            | Brown | Red | Orange | Yellow | Green | Blue | Violet | Grey | White | Pink | Clear |

## Characteristics & key properties

|    |                    |                              |                   |                    |                         |                                               |                            |
|----|--------------------|------------------------------|-------------------|--------------------|-------------------------|-----------------------------------------------|----------------------------|
| CE | RoHS<br>2011/65/EU | REACH<br>EC No.<br>1907/2006 | LVD<br>2014/35/EU | Flame<br>retardant | Low smoke<br>generation | Current rating<br>in free air to<br>IEC 60287 | back to<br>Single<br>wires |
|----|--------------------|------------------------------|-------------------|--------------------|-------------------------|-----------------------------------------------|----------------------------|

Data indicates nominal values in millimetres (mm) unless otherwise stated.

DISCLAIMER: Information is indicative and cannot be considered a binding representation or warranty for products and their use. Valid at the time of publication, it is subject to change without notice.