

# PTFE EE NPC & H-REE NPC cores

PTFE insulated, based on: NEMA HP-3

Intended for use as internal wiring of equipment

-65 / +260°C

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

| Description                                   | Conductor |       |                            |                       |               | Finished Core |                             |      |        |      | Article Number                                                                      |
|-----------------------------------------------|-----------|-------|----------------------------|-----------------------|---------------|---------------|-----------------------------|------|--------|------|-------------------------------------------------------------------------------------|
| EE NPC = extruded<br>&<br>H-REE NPC = wrapped | Size      |       | Nickel Plated Copper (NPC) |                       |               | PTFE          |                             |      | Weight | Amps |  |
|                                               |           |       | Stranding                  | DC resistance<br>Ω/km | Wire<br>Nom Ø | Core<br>Nom Ø | Tolerance<br>Min Ø    Max Ø |      |        |      |                                                                                     |
| EE 3201 NPC                                   | 32        | 0.03  | 1 x 0.203                  | 580.7                 | 0.20          | 0.96          | 0.86                        | 1.07 | 1.8    | 5    | 413 / 213cc3201                                                                     |
| EE 3207 NPC                                   |           | 0.04  | 7 x 0.079                  | 610.2                 | 0.24          | 1.02          | 0.92                        | 1.12 | 2.0    |      | 413 / 213cc3207                                                                     |
| EE 3219 NPC                                   |           | 0.04  | 19 x 0.051                 | 587.2                 | 0.25          | 1.02          | 0.92                        | 1.12 | 2.0    |      | 413 / 213cc3219                                                                     |
| EE 3001 NPC                                   | 30        | 0.05  | 1 x 0.254                  | 360.8                 | 0.25          | 1.02          | 0.92                        | 1.12 | 2.1    | 7    | 413 / 213cc3001                                                                     |
| EE 3007 NPC                                   |           | 0.06  | 7 x 0.102                  | 360.8                 | 0.30          | 1.07          | 0.97                        | 1.17 | 2.3    |      | 413 / 213cc3007                                                                     |
| EE 3019 NPC                                   |           | 0.06  | 19 x 0.064                 | 367.4                 | 0.32          | 1.07          | 0.97                        | 1.17 | 2.3    |      | 413 / 213cc3019                                                                     |
| EE 2801 NPC                                   | 28        | 0.08  | 1 x 0.320                  | 227.6                 | 0.32          | 1.09          | 0.99                        | 1.19 | 2.5    | 9    | 413 / 213cc2801                                                                     |
| EE 2807 NPC                                   |           | 0.09  | 7 x 0.127                  | 221.7                 | 0.38          | 1.14          | 1.04                        | 1.24 | 2.9    |      | 413 / 213cc2807                                                                     |
| EE 2819 NPC                                   |           | 0.09  | 19 x 0.079                 | 227.3                 | 0.39          | 1.14          | 1.04                        | 1.24 | 2.9    |      | 413 / 213cc2819                                                                     |
| EE 2601 NPC                                   | 26        | 0.13  | 1 x 0.404                  | 143.0                 | 0.40          | 1.17          | 1.07                        | 1.27 | 3.2    | 11   | 413 / 213cc2601                                                                     |
| EE 2607 NPC                                   |           | 0.14  | 7 x 0.160                  | 138.4                 | 0.48          | 1.24          | 1.14                        | 1.35 | 3.6    |      | 413 / 213cc2607                                                                     |
| EE 2619 NPC                                   |           | 0.16  | 19 x 0.102                 | 134.5                 | 0.48          | 1.24          | 1.14                        | 1.37 | 3.8    |      | 413 / 213cc2619                                                                     |
| EE 2401 NPC                                   | 24        | 0.20  | 1 x 0.511                  | 89.56                 | 0.51          | 1.27          | 1.17                        | 1.37 | 4.1    | 15   | 413 / 213cc2401                                                                     |
| EE 2407 NPC                                   |           | 0.22  | 7 x 0.203                  | 85.30                 | 0.60          | 1.37          | 1.27                        | 1.47 | 4.8    |      | 413 / 213cc2407                                                                     |
| EE 2419 NPC                                   |           | 0.24  | 19 x 0.127                 | 82.67                 | 0.60          | 1.37          | 1.27                        | 1.50 | 5.0    |      | 413 / 213cc2419                                                                     |
| EE 2201 NPC                                   | 22        | 0.32  | 1 x 0.643                  | 56.43                 | 0.64          | 1.41          | 1.30                        | 1.52 | 5.6    | 20   | 413 / 213cc2201                                                                     |
| EE 2207 NPC                                   |           | 0.36  | 7 x 0.254                  | 53.15                 | 0.76          | 1.52          | 1.42                        | 1.63 | 6.4    |      | 413 / 213cc2207                                                                     |
| EE 2219 NPC                                   |           | 0.38  | 19 x 0.160                 | 51.50                 | 0.76          | 1.52          | 1.42                        | 1.68 | 6.7    |      | 413 / 213cc2219                                                                     |
| EE 2001 NPC                                   | 20        | 0.52  | 1 x 0.813                  | 35.43                 | 0.81          | 1.57          | 1.47                        | 1.68 | 7.7    | 26   | 413 / 213cc2001                                                                     |
| EE 2007 NPC                                   |           | 0.56  | 7 x 0.320                  | 33.46                 | 0.96          | 1.73          | 1.63                        | 1.83 | 8.9    |      | 413 / 213cc2007                                                                     |
| EE 2019 NPC                                   |           | 0.60  | 19 x 0.203                 | 31.75                 | 0.96          | 1.73          | 1.63                        | 1.83 | 9.5    |      | 413 / 213cc2019                                                                     |
| EE 1801 NPC                                   | 18        | 0.82  | 1 x 1.024                  | 22.27                 | 1.02          | 1.80          | 1.68                        | 1.93 | 11     | 35   | 413 / 213cc1801                                                                     |
| EE 1807 NPC                                   |           | 0.88  | 7 x 0.404                  | 21.06                 | 1.21          | 2.00          | 1.88                        | 2.13 | 13     |      | 413 / 213cc1807                                                                     |
| EE 1819 NPC                                   |           | 0.96  | 19 x 0.254                 | 19.78                 | 1.20          | 2.00          | 1.88                        | 2.13 | 14     |      | 413 / 213cc1819                                                                     |
| EE 1601 NPC                                   | 16        | 1.30  | 1 x 1.287                  | 14.00                 | 1.29          | 2.11          | 1.96                        | 2.26 | 16     | 46   | 413 / 213cc1601                                                                     |
| EE 1619 NPC                                   |           | 1.23  | 19 x 0.287                 | 15.51                 | 1.36          | 2.26          | 2.11                        | 2.41 | 17     |      | 413 / 213cc1619                                                                     |
| EE 1419 NPC                                   | 14        | 1.87  | 19 x 0.361                 | 9.810                 | 1.70          | 2.69          | 2.49                        | 2.90 | 24     | 61   | 413 / 213cc1419                                                                     |
| EE 1219 NPC                                   | 12        | 3.02  | 19 x 0.455                 | 6.168                 | 2.14          | 3.17          | 2.97                        | 3.38 | 36     | 80   | 413 / 213cc1219                                                                     |
| EE 1237 NPC                                   |           | 2.97  | 37 x 0.320                 | 6.468                 | 2.17          | 3.20          | 2.92                        | 3.32 | 35     |      | 413 / 213cc1237                                                                     |
| H-REE 1037 NPC                                | 10        | 3.64  | 37 x 0.404                 | 4.068                 | 2.80          | 3.76          | 3.48                        | 3.89 | 52     | 108  | 213cc1037                                                                           |
| H-REE 8133 NPC                                | 8         | 8.60  | 133 x 0.287                | 2.192                 | 4.10          | 5.38          | 5.05                        | 5.56 | 94     | 160  | 213cc8133                                                                           |
| H-REE 6133 NPC                                | 6         | 13.61 | 133 x 0.361                | 1.430                 | 5.15          | 7.40          | 7.26                        | 7.65 | 155    | 216  | 213cc6133                                                                           |

Available in both extruded 'EE NPC' and tape-wrapped 'H-REE NPC' variants. Change the first digit of the article number to select: 413 = extruded 213 = tape-wrapped.  
 Sizes 10 AWG 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 |

For bi-colours: Add 'S' for a spiral or 'C' for a longitudinal stripe, then 2 digits for the colour, to the end of the article no. (e.g. 413222607S66 = Red with a Blue spiral stripe)

## Characteristics & key properties

|    |                                   |                              |                   |                    |                         |                                               |
|----|-----------------------------------|------------------------------|-------------------|--------------------|-------------------------|-----------------------------------------------|
| CE | RoHS<br>2011/65/EU<br>2015/863/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 |
|----|-----------------------------------|------------------------------|-------------------|--------------------|-------------------------|-----------------------------------------------|

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

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