

# PTFE E & H-RE cores

PTFE insulated, based on: NEMA HP-3

Intended for use as internal wiring of equipment

-65 / +200°C

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

| 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 3201                              | 32        | 0.03 | 1 x 0.203                     | 544.6         | 0.20  | 0.74          | 0.64      | 0.84  | 1.1    | 4       | 512 / 312cc3201                                                                     |
| E 3207                              |           | 0.04 | 7 x 0.079                     | 557.7         | 0.24  | 0.76          | 0.66      | 0.86  | 1.2    |         | 512 / 312cc3207                                                                     |
| E 3219                              |           | 0.04 | 19 x 0.051                    | 515.0         | 0.25  | 0.76          | 0.66      | 0.86  | 1.3    |         | 512 / 312cc3219                                                                     |
| E 3001                              | 30        | 0.05 | 1 x 0.254                     | 347.7         | 0.25  | 0.76          | 0.66      | 0.86  | 1.3    | 5       | 512 / 312cc3001                                                                     |
| E 3007                              |           | 0.06 | 7 x 0.102                     | 328.0         | 0.30  | 0.81          | 0.71      | 0.91  | 1.5    |         | 512 / 312cc3007                                                                     |
| E 3019                              |           | 0.06 | 19 x 0.064                    | 323.4         | 0.32  | 0.81          | 0.71      | 0.91  | 1.5    |         | 512 / 312cc3019                                                                     |
| E 2801                              | 28        | 0.08 | 1 x 0.320                     | 218.8         | 0.32  | 0.84          | 0.74      | 0.94  | 1.7    | 7       | 512 / 312cc2801                                                                     |
| E 2807                              |           | 0.09 | 7 x 0.127                     | 208.6         | 0.38  | 0.89          | 0.79      | 0.99  | 2.0    |         | 512 / 312cc2807                                                                     |
| E 2819                              |           | 0.09 | 19 x 0.079                    | 207.0         | 0.39  | 0.89          | 0.79      | 0.99  | 2.0    |         | 512 / 312cc2819                                                                     |
| E 2601                              | 26        | 0.13 | 1 x 0.404                     | 137.4         | 0.40  | 0.91          | 0.81      | 1.01  | 2.3    | 10      | 512 / 312cc2601                                                                     |
| E 2607                              |           | 0.14 | 7 x 0.160                     | 130.2         | 0.48  | 0.99          | 0.89      | 1.09  | 2.7    |         | 512 / 312cc2607                                                                     |
| E 2619                              |           | 0.16 | 19 x 0.102                    | 122.3         | 0.48  | 1.00          | 0.90      | 1.10  | 2.8    |         | 512 / 312cc2619                                                                     |
| E 2401                              | 24        | 0.20 | 1 x 0.511                     | 85.95         | 0.51  | 1.02          | 0.92      | 1.12  | 3.1    | 13      | 512 / 312cc2401                                                                     |
| E 2407                              |           | 0.22 | 7 x 0.203                     | 80.38         | 0.60  | 1.12          | 1.02      | 1.22  | 3.7    |         | 512 / 312cc2407                                                                     |
| E 2419                              |           | 0.24 | 19 x 0.127                    | 77.42         | 0.60  | 1.13          | 1.03      | 1.23  | 3.9    |         | 512 / 312cc2419                                                                     |
| E 2201                              | 22        | 0.32 | 1 x 0.643                     | 54.13         | 0.64  | 1.15          | 1.05      | 1.25  | 4.4    | 17      | 512 / 312cc2201                                                                     |
| E 2207                              |           | 0.36 | 7 x 0.254                     | 51.18         | 0.76  | 1.27          | 1.17      | 1.37  | 5.2    |         | 512 / 312cc2207                                                                     |
| E 2219                              |           | 0.38 | 19 x 0.160                    | 48.55         | 0.76  | 1.30          | 1.20      | 1.40  | 5.5    |         | 512 / 312cc2219                                                                     |
| E 2001                              | 20        | 0.52 | 1 x 0.813                     | 33.79         | 0.81  | 1.32          | 1.22      | 1.42  | 6.5    | 22      | 512 / 312cc2001                                                                     |
| E 2007                              |           | 0.56 | 7 x 0.320                     | 32.18         | 0.96  | 1.47          | 1.37      | 1.57  | 7.5    |         | 512 / 312cc2007                                                                     |
| E 2019                              |           | 0.60 | 19 x 0.203                    | 29.85         | 0.96  | 1.47          | 1.37      | 1.57  | 8.1    |         | 512 / 312cc2019                                                                     |
| E 1801                              | 18        | 0.82 | 1 x 1.024                     | 21.39         | 1.02  | 1.54          | 1.44      | 1.64  | 9.6    | 30      | 512 / 312cc1801                                                                     |
| E 1807                              |           | 0.88 | 7 x 0.404                     | 20.21         | 1.21  | 1.75          | 1.65      | 1.85  | 12     |         | 512 / 312cc1807                                                                     |
| E 1819                              |           | 0.96 | 19 x 0.254                    | 18.99         | 1.20  | 1.75          | 1.65      | 1.85  | 12     |         | 512 / 312cc1819                                                                     |
| E 1601                              | 16        | 1.30 | 1 x 1.287                     | 13.45         | 1.29  | 1.87          | 1.77      | 1.97  | 15     | 39      | 512 / 312cc1601                                                                     |
| E 1619                              |           | 1.23 | 19 x 0.287                    | 14.89         | 1.36  | 2.03          | 1.93      | 2.13  | 16     |         | 512 / 312cc1619                                                                     |
| E 1419                              | 14        | 1.87 | 19 x 0.361                    | 9.416         | 1.70  | 2.42          | 2.32      | 2.52  | 23     | 53      | 512 / 312cc1419                                                                     |
| E 1219                              | 12        | 3.02 | 19 x 0.455                    | 5.938         | 2.14  | 2.90          | 2.80      | 3.00  | 34     | 70      | 512 / 312cc1219                                                                     |
| E 1237                              |           | 2.97 | 37 x 0.320                    | 6.201         | 2.17  | 2.85          | 2.67      | 3.02  | 41     |         | 512 / 312cc1237                                                                     |
| H-RE 1037                           | 10        | 3.64 | 37 x 0.404                    | 3.904         | 2.80  | 3.40          | 3.30      | 3.50  | 52     | 94      | 312cc1037                                                                           |

Available in both extruded 'E' and tape-wrapped 'H-RE' variants. Change the first digit of the article number to select: 512 = extruded 312 = 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. 512222607S66 = 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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