

# PTFE // B-EE & B-EE NPC

PTFE insulated cores, approved to BS 3G 210 Type C and Type NC to Def Stan 61-12 Part 8  
Insulated wires intended for use as internal wiring of equipment

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

-75°C to +190°C

| Description                | Conductor |      |                               |               |      | Finished Core |           |       |        |         | Article Number                                                                      |
|----------------------------|-----------|------|-------------------------------|---------------|------|---------------|-----------|-------|--------|---------|-------------------------------------------------------------------------------------|
| B-EE<br>(BS 3G 210 Type C) | 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 |                                                                                     |
| B-EE 3207                  | 32        | 0.04 | 7 x 0.080                     | 558           | 0.24 | 1.04          | 0.90      | 1.16  | 1.73   | 1.5     | 538cc3207                                                                           |
| B-EE 3007                  | 30        | 0.06 | 7 x 0.100                     | 353           | 0.30 | 1.10          | 0.96      | 1.22  | 2.90   | 2       | 538cc3007                                                                           |
| B-EE 2807                  | 28        | 0.09 | 7 x 0.120                     | 244           | 0.36 | 1.18          | 1.04      | 1.30  | 3.31   | 3       | 538cc2807                                                                           |
| B-EE 2607                  | 26        | 0.13 | 7 x 0.150                     | 159           | 0.45 | 1.25          | 1.11      | 1.37  | 4.04   | 4       | 538cc2607                                                                           |
| B-EE 2407                  | 24        | 0.20 | 7 x 0.200                     | 88.3          | 0.60 | 1.40          | 1.26      | 1.52  | 5.42   | 6       | 538cc2407                                                                           |
| B-EE 2219                  | 22        | 0.34 | 19 x 0.150                    | 58.6          | 0.75 | 1.55          | 1.41      | 1.67  | 7.10   | 8       | 538cc2219                                                                           |
| B-EE 2019                  | 20        | 0.60 | 19 x 0.200                    | 32.5          | 1.00 | 1.76          | 1.66      | 1.92  | 10.30  | 11      | 538cc2019                                                                           |
| B-EE 1901                  | 19        | 0.64 | 1 x 0.900                     | 28.5          | 0.90 | 1.66          | 1.56      | 1.82  | 9.20   | 12      | 538cc1901                                                                           |
| B-EE 1819                  | 18        | 0.93 | 19 x 0.250                    | 20.6          | 1.25 | 2.05          | 1.91      | 2.17  | 14.30  | 15      | 538cc1819                                                                           |
| B-EE 1619                  | 16        | 1.34 | 19 x 0.300                    | 14.3          | 1.50 | 2.30          | 2.16      | 2.46  | 19.30  | 20      | 538cc1619                                                                           |
| B-EE 1419                  | 14        | 1.67 | 19 x 0.340                    | 11.4          | 1.67 | 2.48          | 2.34      | 2.74  | 23.90  | 23      | 538cc1419                                                                           |
| B-EE 1219                  | 12        | 3.02 | 19 x 0.450                    | 6.28          | 2.25 | 3.05          | 2.91      | 3.31  | 38.50  | 35      | 538cc1219                                                                           |
| B-EE 1037                  | 10        | 4.65 | 37 x 0.400                    | 4.01          | 2.80 | 3.66          | 3.46      | 3.86  | 56.00  | 47      | 538cc1037                                                                           |

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

-75°C to +260°C

| Description                     | Conductor |      |                               |               |       | Finished Core |           |       |        |         | Article Number                                                                       |
|---------------------------------|-----------|------|-------------------------------|---------------|-------|---------------|-----------|-------|--------|---------|--------------------------------------------------------------------------------------|
| B-EE NPC<br>(BS 3G 210 Type NC) | Size      |      | Nickel Plated Copper<br>(NPC) |               |       | PTFE          |           |       | Weight | Amps    |  |
|                                 |           |      | Stranding                     | DC resistance | Wire  | Core          | Tolerance |       |        |         |                                                                                      |
|                                 | AWG       | mm²  |                               | Ω/km          | Nom Ø |               | Nom Ø     | Min Ø | Max Ø  | Nom g/m |                                                                                      |
| B-EE 3007 NPC                   | 30        | 0.06 | 7 x 0.100                     | 377           | 0.30  | 1.10          | 0.96      | 1.22  | 2.90   | 2       | 587cc3007                                                                            |
| B-EE 2807 NPC                   | 28        | 0.09 | 7 x 0.120                     | 258           | 0.36  | 1.18          | 1.04      | 1.30  | 3.31   | 3       | 587cc2807                                                                            |
| B-EE 2607 NPC                   | 26        | 0.13 | 7 x 0.150                     | 166           | 0.45  | 1.25          | 1.11      | 1.37  | 4.04   | 4       | 587cc2607                                                                            |
| B-EE 2619 NPC                   |           | 0.15 | 19 x 0.100                    | 139           | 0.50  | 1.30          | 1.16      | 1.42  | 4.45   | 5       | 587cc2619                                                                            |
| B-EE 2407 NPC                   | 24        | 0.20 | 7 x 0.200                     | 91.2          | 0.60  | 1.40          | 1.26      | 1.52  | 5.42   | 6       | 587cc2407                                                                            |
| B-EE 2419 NPC                   |           | 0.21 | 19 x 0.120                    | 94.9          | 0.60  | 1.40          | 1.26      | 1.52  | 5.36   |         | 587cc2419                                                                            |
| B-EE 2219 NPC                   | 22        | 0.34 | 19 x 0.150                    | 61.3          | 0.75  | 1.55          | 1.41      | 1.67  | 7.10   | 8       | 587cc2219                                                                            |
| B-EE 2019 NPC                   | 20        | 0.60 | 19 x 0.200                    | 33.6          | 1.00  | 1.76          | 1.60      | 1.92  | 10.3   | 11      | 587cc2019                                                                            |
| B-EE 1901 NPC                   | 19        | 0.64 | 1 x 0.900                     | 28.6          | 0.90  | 1.66          | 1.56      | 1.82  | 9.20   | 12      | 587cc1901                                                                            |
| B-EE 1819 NPC                   | 18        | 0.93 | 19 x 0.250                    | 21.2          | 1.25  | 2.05          | 1.95      | 2.21  | 14.3   | 15      | 587cc1819                                                                            |
| B-EE 1619 NPC                   | 16        | 1.34 | 19 x 0.300                    | 14.6          | 1.50  | 2.30          | 2.16      | 2.42  | 19.3   | 20      | 587cc1619                                                                            |
| B-EE 1419 NPC                   | 14        | 1.67 | 19 x 0.340                    | 11.6          | 1.67  | 2.48          | 2.34      | 2.62  | 23.9   | 23      | 587cc1419                                                                            |
| B-EE 1219 NPC                   | 12        | 3.02 | 19 x 0.450                    | 6.38          | 2.25  | 3.05          | 2.91      | 3.31  | 38.5   | 35      | 587cc1219                                                                            |
| B-EE 1037 NPC                   | 10        | 4.65 | 37 x 0.400                    | 4.08          | 2.80  | 3.66          | 3.46      | 3.86  | 56.0   | 47      | 587cc1037                                                                            |

## 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 | DSP 61-12<br>Part 8<br>approval | BS 3G 210<br>Type C<br>approval | Flame<br>retardant | Low smoke<br>generation | Current rating<br>in free air to<br>BS 3G 210 |
|----|--------------------|------------------------------|-------------------|---------------------------------|---------------------------------|--------------------|-------------------------|-----------------------------------------------|

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

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