

#### Properties:

Radiation resistance:  
10 E3 Gy

Flame retardant  
Low Smoke Generation

Suitable for use in:

Oils  
Fuels  
Acids  
Bases

#### Construction:

Conductor  
Insulation  
Temperature rating (°C)  
Colours  
Voltage  
Test voltage

Nickel Plated Copper (NPC)  
Wrapped and sintered PTFE tape  
-65 / +260  
XX = Colour code  
1000 V AC  
5000 V AC

#### Colour code:

|         |    |
|---------|----|
| Black   | 00 |
| Brown   | 11 |
| Red     | 22 |
| Orange  | 33 |
| Yellow  | 44 |
| Green   | 55 |
| Blue    | 66 |
| Violet  | 77 |
| Grey    | 88 |
| White   | 99 |
| Pink    | 29 |
| Natural | 89 |

#### Notes:

All dimensions nominal (± 4%)  
unless otherwise stated.  
All dimensions in mm.

Air temperature correction factor for current rating:

H-REE-NPC

| °C     | 20   | 40   | 60   | 80   | 100  | 120  | 140  | 160  | 180  | 200  | 220  | 240  |  |  |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| Factor | 1.06 | 1.00 | 0.94 | 0.88 | 0.82 | 0.76 | 0.69 | 0.61 | 0.54 | 0.45 | 0.35 | 0.23 |  |  |

Multicore correction factor for current rating:

| Cores  | 2 | 3    | 4    | 6    | 8    | 10   | 12   | 16   | 20   | 24   | 28   | 32   | 36   | 40   |
|--------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Factor | 1 | 0.88 | 0.80 | 0.69 | 0.62 | 0.59 | 0.55 | 0.51 | 0.48 | 0.43 | 0.41 | 0.39 | 0.38 | 0.36 |

| Type           | Size |       | Conductor  |        |                           | Finished Wire |           |                |               | Order Reference |
|----------------|------|-------|------------|--------|---------------------------|---------------|-----------|----------------|---------------|-----------------|
|                | AWG  | mm²   | Stranding  | Wire Ø | DC Res @ 20°C (Ohms / km) | Core Ø        | Tolerance | Weight (kg/km) | Amps (@ 40°C) |                 |
| H-REE 3201 NPC | 32   | 0,031 | 1 x 0,20   | 0,20   | 544                       | 0,96          | ± 0,10    | 1,8            | 4             | 213xx3201       |
| H-REE 3207 NPC | 32   | 0,035 | 7 x 0,08   | 0,24   | 557                       | 1,02          | ± 0,10    | 2,0            | 4             | 213xx3207       |
| H-REE 3001 NPC | 30   | 0,049 | 1 x 0,25   | 0,25   | 347                       | 1,02          | ± 0,10    | 2,1            | 5             | 213xx3001       |
| H-REE 3007 NPC | 30   | 0,057 | 7 x 0,10   | 0,30   | 328                       | 1,07          | ± 0,10    | 2,3            | 5             | 213xx3007       |
| H-REE 2801 NPC | 28   | 0,080 | 1 x 0,32   | 0,32   | 218                       | 1,09          | ± 0,10    | 2,5            | 7             | 213xx2801       |
| H-REE 2807 NPC | 28   | 0,089 | 7 x 0,13   | 0,38   | 208                       | 1,14          | ± 0,10    | 2,9            | 7             | 213xx2807       |
| H-REE 2601 NPC | 26   | 0,126 | 1 x 0,40   | 0,40   | 137                       | 1,17          | ± 0,10    | 3,2            | 9             | 213xx2601       |
| H-REE 2607 NPC | 26   | 0,141 | 7 x 0,16   | 0,48   | 130                       | 1,24          | ± 0,10    | 3,6            | 9             | 213xx2607       |
| H-REE 2619 NPC | 26   | 0,155 | 19 x 0,10  | 0,48   | 122                       | 1,24          | ± 0,10    | 3,8            | 9             | 213xx2619       |
| H-REE 2401 NPC | 24   | 0,204 | 1 x 0,51   | 0,51   | 86,0                      | 1,27          | ± 0,10    | 4,1            | 12            | 213xx2401       |
| H-REE 2407 NPC | 24   | 0,220 | 7 x 0,20   | 0,60   | 80,4                      | 1,37          | ± 0,10    | 4,8            | 12            | 213xx2407       |
| H-REE 2419 NPC | 24   | 0,241 | 19 x 0,13  | 0,60   | 77,4                      | 1,37          | ± 0,10    | 5,0            | 12            | 213xx2419       |
| H-REE 2201 NPC | 22   | 0,322 | 1 x 0,64   | 0,64   | 54,1                      | 1,41          | ± 0,11    | 5,6            | 14            | 213xx2201       |
| H-REE 2207 NPC | 22   | 0,355 | 7 x 0,25   | 0,76   | 51,2                      | 1,52          | ± 0,11    | 6,4            | 14            | 213xx2207       |
| H-REE 2219 NPC | 22   | 0,382 | 19 x 0,16  | 0,76   | 48,5                      | 1,52          | ± 0,11    | 6,7            | 14            | 213xx2219       |
| H-REE 0,50 NPC | -    | 0,50  | 19 x 0,185 | 0,93   | 40,1                      | 1,68          | ± 0,10    | 7,4            | 19            | 213xx0050       |
| H-REE 0,50 NPC | -    | 0,50  | 16 x 0,20  | 0,88   | 40,1                      | 1,68          | ± 0,10    | 7,4            | 19            | 213xx1650       |
| H-REE 2001 NPC | 20   | 0,515 | 1 x 0,81   | 0,81   | 33,8                      | 1,57          | ± 0,10    | 7,7            | 22            | 213xx2001       |
| H-REE 2007 NPC | 20   | 0,563 | 7 x 0,32   | 0,96   | 32,2                      | 1,73          | ± 0,10    | 8,9            | 22            | 213xx2007       |
| H-REE 2019 NPC | 20   | 0,597 | 19 x 0,20  | 0,97   | 29,9                      | 1,73          | ± 0,10    | 9,5            | 22            | 213xx2019       |
| H-REE 0,75 NPC | -    | 0,75  | 19 x 0,225 | 1,13   | 26,7                      | 1,90          | ± 0,10    | 11             | 25            | 213xx0075       |
| H-REE 0,75 NPC | -    | 0,75  | 24 x 0,20  | 1,05   | 26,7                      | 1,90          | ± 0,10    | 11             | 25            | 213xx2475       |
| H-REE 1801 NPC | 18   | 0,817 | 1 x 1,02   | 1,02   | 21,4                      | 1,80          | ± 0,14    | 11             | 27            | 213xx1801       |
| H-REE 1807 NPC | 18   | 0,880 | 7 x 0,40   | 1,21   | 20,2                      | 2,00          | ± 0,12    | 13             | 27            | 213xx1807       |
| H-REE 1819 NPC | 18   | 0,963 | 19 x 0,25  | 1,21   | 19,0                      | 2,00          | ± 0,12    | 14             | 27            | 213xx1819       |
| H-REE 1,0 NPC  | -    | 1,00  | 32 x 0,20  | 1,20   | 20,0                      | 2,05          | ± 0,12    | 14             | 30            | 213xx0100       |
| H-REE 1601 NPC | 16   | 1,301 | 1 x 1,29   | 1,29   | 13,5                      | 2,11          | ± 0,15    | 16             | 32            | 213xx1601       |
| H-REE 1619 NPC | 16   | 1,229 | 19 x 0,29  | 1,36   | 14,8                      | 2,26          | ± 0,15    | 15             | 32            | 213xx1619       |
| H-REE 1,5 NPC  | -    | 1,50  | 30 x 0,25  | 1,50   | 13,7                      | 2,35          | ± 0,15    | 19             | 40            | 213xx0150       |
| H-REE 1419 NPC | 14   | 1,870 | 19 x 0,36  | 1,70   | 9,42                      | 2,69          | ± 0,20    | 24             | 43            | 213xx1419       |
| H-REE 2,5 NPC  | -    | 2,50  | 50 x 0,25  | 1,95   | 8,21                      | 2,88          | ± 0,20    | 29             | 57            | 213xx0250       |
| H-REE 1219 NPC | 12   | 3,022 | 19 x 0,45  | 2,14   | 5,93                      | 3,17          | ± 0,20    | 36             | 67            | 213xx1219       |
| H-REE 1237 NPC | 12   | 2,976 | 37 x 0,32  | 2,42   | 6,20                      | 3,20          | ± 0,20    | 37             | 67            | 213xx1237       |
| H-REE 4 NPC    | -    | 4,00  | 56 x 0,30  | 2,48   | 5,09                      | 3,45          | ± 0,20    | 45             | 80            | 213xx0400       |
| H-REE 1037 NPC | 10   | 4,650 | 37 x 0,40  | 2,82   | 3,90                      | 3,76          | ± 0,20    | 51             | 93            | 213xx1037       |
| H-REE 6 NPC    | -    | 6,00  | 84 x 0,30  | 2,92   | 3,39                      | 4,25          | ± 0,20    | 66             | 92            | 213xx0600       |
| H-REE 8133 NPC | 8    | 8,600 | 133 x 0,29 | 4,10   | 2,17                      | 5,38          | ± 0,20    | 94             | 129           | 213xx8133       |
| H-REE 10 NPC   | -    | 10,00 | 80 x 0,40  | 3,93   | 1,95                      | 5,48          | ± 0,20    | 117            | 137           | 213xx1000       |

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Approved by:



# H-REE-NPC

PTFE

## Equipment Wire, 1000V, +260°C (Wrapped)

[illegible]

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