



**BEIJING HUAYUAN GAOKE CABLE CO.,LTD.**  
**Daxing Industrial District, Beijing, China**  
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## Heat-resistance Fire-proof Cable

### ■ Product Standard

Enterprise standard. Fire-proof feature test refers to GB/T19216.21-2003 (equal to IEC60331).

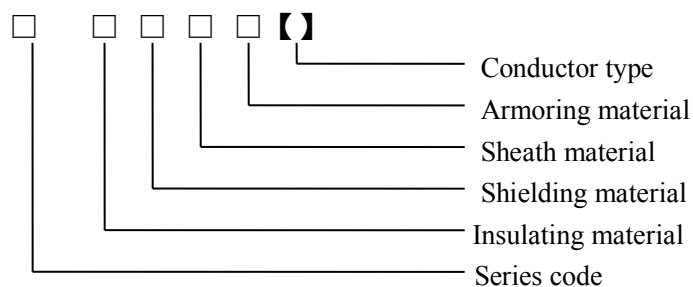
### ■ Usage

It is used for signal checking and power transmission at high temp, rated A.C. voltage 0.6/1kV and below.  
 Especially used for transmission line.

### ■ Type and Designation

| Type                 | Designation  |
|----------------------|--|
| NHFF                 | Cu core fire-proof & insulation layer heat-resistance fire-proof cable                           |
| NHFF <sub>22</sub>   | Cu core fire-proof & insulation layer steel tape armored heat-resistance fire-proof cable        |
| NHFF <sub>32</sub>   | Cu core fire-proof & insulation layer steel wire armored heat-resistance fire-proof cable        |
| NHFPPF               | Cu core fire-proof & insulation layer heat-resistance shield fire-proof cable                    |
| NHFPPF <sub>22</sub> | Cu core fire-proof & insulation layer steel tape armored heat-resistance shield fire-proof cable |
| NHFPPF <sub>32</sub> | Cu core fire-proof & insulation layer steel wire armored heat-resistance shield fire-proof cable |

### ■ Model explanation



### ■ Technical performances

| Item                                | Unit     | Technical performances                                      |      |      |      |      |     |      |      |      |      |       |       |       |       |       |       |
|-------------------------------------|----------|---|------|------|------|------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|
|                                     |          | mm <sup>2</sup> section                                     | 0.5  | 0.75 | 1.0  | 1.5  | 2.5 | 4    | 6    | 10   | 16   | 25    | 35    | 50    | 70    | 95    | 120   |
| D.C. Resistance of conductor (20) ≤ | Ω /km    | Resistance  | 36.0 | 24.5 | 18.1 | 12.1 | 7.4 | 4.61 | 3.08 | 1.83 | 1.15 | 0.727 | 0.524 | 0.387 | 0.268 | 0.193 | 0.153 |
| Test voltage                        | kV/1 min | 450/750V Test Voltage 2.5KV<br>600/1000V Test Voltage 3.5KV |      |      |      |      |     |      |      |      |      |       |       |       |       |       |       |

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|                            |       |   |
|----------------------------|-------|---|
| Insulation resistance<br>≥ | MΩ·km | 100   |
| Fire-resistance feature    |       | Grade A (Flame temp 1000°C 90min test 3A fuse wire not break) |

| Item                                  | Code | Explanation                    |
|---------------------------------------|------|--------------------------------|
| Series code                           | NH   | Fire-proof cable               |
| Insulating material                   | F    | Fire-proof insulating material |
| Shielding material                    | /    | No shield to be omitted        |
|                                       | P    | Tin-plated woven Cu wire       |
| Sheath material                       | F    | (F46) F46                      |
| Armoring material                     | 22   | Steel tape armored             |
|                                       | 32   | Thin steel wire armored        |
| Conductor type (fill in the brackets) | A    | Single strand conductor        |
|                                       | B    | Twisted conductor              |

E.G.1: Five core 1.0mm<sup>2</sup> type A conductor heat-resistance fire-proof cable is described as: NHFF 5×1.0(A)

E.G.2: Five core 120mm<sup>2</sup> Cu conductor steel wire armored Tin-plated woven Cu wire shield heat-resistance fire-proof cable is described as: NHFPF<sub>22</sub> 5×120

#### ■ Application characteristics

1. Operating temp: Long time use 200°C, short time use 1000°C 90 minutes.
2. Rated voltage U<sub>0</sub>/U: 450/750V, 600/1000V
3. Min. ambient temp: fixed installation -60°C, non-fix installation -20°C.
4. Min. bending radius: Non-armored cable ≥10 times the cable outer dia.  
Armored cable ≥12 times the cable outer dia.

#### ■ Specifications cable

| Type                | Nominal cross section mm <sup>2</sup> |      |      |     |     |      |      |      |    |    |     |     |     |    |     |  |  |
|---------------------|---------------------------------------|------|------|-----|-----|------|------|------|----|----|-----|-----|-----|----|-----|--|--|
|                     | 0.5                                   | 0.75 | 1.0  | 1.5 | 2.5 | 4    | 6    | 10   | 16 | 25 | 35  | 50  | 70  | 95 | 120 |  |  |
| Core number         |                                       |      |      |     |     |      |      |      |    |    |     |     |     |    |     |  |  |
| NHFF                | 2~61                                  |      |      |     |     | 2~10 |      |      |    |    | 1~5 |     |     |    |     |  |  |
| NHFF <sub>22</sub>  | —                                     | 4~61 |      |     |     |      | 2~10 |      |    |    |     | 2~5 |     |    |     |  |  |
| NHFF <sub>32</sub>  | —                                     |      | 4~61 |     |     |      |      | 4~10 |    |    |     |     | 3~5 |    |     |  |  |
| NHFPF               | 2~61                                  |      |      |     |     | 2~10 |      |      |    |    | 1~5 |     |     |    |     |  |  |
| NHFPF <sub>22</sub> | —                                     | 4~61 |      |     |     |      | 2~10 |      |    |    |     | 2~5 |     |    |     |  |  |
| NHFPF <sub>32</sub> | —                                     |      | 4~61 |     |     |      |      | 4~10 |    |    |     |     | 3~5 |    |     |  |  |

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■ **Delivery lengths**

Non-armored cable is 500m armored cable is 200m, shortage length more than 30m may be delivered but not exceed 10% of the total length delivered special requirement to be discussed between the supplier and the buyer.

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