

# RG16H1R12 26/45kV Cable



## APPLICATION

Suitable for the transport of energy between the substations and large users. For electrical power system in constructions and other civil engineering buildings, in order to limit fire and smoke production and spread, in accordance with the CPR. For free hanging, pipe or channel. Laying underground also not protected.

## CHARACTERISTICS

### Voltage Rating $U_0/U$ (Um)

26/45kV

### Temperature Rating

Maximum operating temperature: +90°C

Maximum short circuit temperature: +250°C

Min. operating temperature (without mechanical shocks): -15°C

### Minimum Bending Radius

12 D

## STANDARDS

CEI 20-13, HD 620 IEC 60502 ppa

EN 50575:2014 + EN 50575/A1:2016 (IEC 60332-1-2)

## THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

## SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

## CONSTRUCTION

### Conductor

class 2, compact stranded wire, plain copper

### Semiconductor layer

extruded (only cables  $U_0/U \geq 6/10$  kV)

### Insulation

HEPR rubber, G16 quality, Pb free

### Semiconductor layer

extruded, cold stripping (only cables  $U_0/U \geq 6/10$  kV)

### Screen

plain copper tapes wrapped

### Outer Sheath

PVC based compound, R12 quality

### Sheath Colour

● red

## Technical characteristics

| Formation | Approx.<br>conductor<br>Ø | Average<br>insulation<br>thickness | Approx.<br>external<br>Ø | Approx.<br>cable<br>weight | Current rating<br>A |      |         |      |
|-----------|---------------------------|------------------------------------|--------------------------|----------------------------|---------------------|------|---------|------|
|           |                           |                                    |                          |                            | in air              |      | buried* |      |
| n° x mm2  | mm                        | mm                                 | mm                       | kg/km                      | trefoil             | flat | trefoil | flat |
| 1 x 70    | 9.7                       | 10.3                               | 39.3                     | 2190                       | 280                 | 315  | 255     | 260  |
| 1 x 95    | 11.4                      | 10.3                               | 41.2                     | 2540                       | 340                 | 380  | 300     | 310  |
| 1 x 120   | 12.9                      | 10.0                               | 42.2                     | 2805                       | 395                 | 440  | 355     | 365  |
| 1 x 150   | 14.3                      | 9.5                                | 42.8                     | 3080                       | 445                 | 495  | 385     | 395  |
| 1 x 185   | 16.0                      | 9.3                                | 44.3                     | 3465                       | 510                 | 570  | 440     | 450  |
| 1 x 240   | 18.3                      | 9.3                                | 46.9                     | 4160                       | 600                 | 665  | 510     | 520  |
| 1 x 300   | 21.0                      | 9.0                                | 49.2                     | 4875                       | 695                 | 760  | 570     | 580  |
| 1 x 400   | 23.2                      | 9.0                                | 51.8                     | 5782                       | 800                 | 875  | 650     | 655  |
| 1 x 500   | 26.1                      | 9.0                                | 55.3                     | 7000                       | 930                 | 1010 | 735     | 740  |
| 1 x 630   | 30.3                      | 9.0                                | 59.3                     | 8355                       | 1070                | 1180 | 835     | 845  |

## Electrical characteristics

| Formation | Max. electrical<br>resistance<br>at 20°C | Conductor apparent resistance<br>at 90°C and 50Hz Ω /km |        | Phase reactance Ω/Km |      | Capacity<br>at 50Hz |
|-----------|--|---|--------|----------------------|------|---------------------|
|           |  | trefoil   | flat   | trefoil              | flat |                     |
| n° x mm2  | Ω/Km                                     |   |        |                      |      | μF/km               |
| 1 x 70    | 0.268                                    | 0.342   | 0.342  | 0.15                 | 0.21 | 0.15                |
| 1 x 95    | 0.193                                    | 0.246   | 0.246  | 0.14                 | 0.20 | 0.16                |
| 1 x 120   | 0.153                                    | 0.196   | 0.196  | 0.14                 | 0.20 | 0.18                |
| 1 x 150   | 0.124                                    | 0.159   | 0.158  | 0.13                 | 0.19 | 0.20                |
| 1 x 185   | 0.0991                                   | 0.128   | 0.127  | 0.13                 | 0.19 | 0.21                |
| 1 x 240   | 0.0754                                   | 0.0985  | 0.0972 | 0.12                 | 0.18 | 0.23                |
| 1 x 300   | 0.0601                                   | 0.0797  | 0.0779 | 0.12                 | 0.18 | 0.26                |
| 1 x 400   | 0.0470                                   | 0.0638  | 0.0616 | 0.11                 | 0.17 | 0.28                |
| 1 x 500   | 0.0366                                   | 0.0517  | 0.0489 | 0.11                 | 0.17 | 0.31                |
| 1 x 630   | 0.0283                                   | 0.0425  | 0.0389 | 0.10                 | 0.16 | 0.34                |

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.