

# H05RN-F Flexible Rubber Cable



## APPLICATION

For general use in domestic premises, kitchens, offices and industrial equipment where the cables are subjected to low mechanical stress. Suitable for dry, damp and wet installations, including temporary outdoor power. Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire.

## CHARACTERISTICS

### Voltage Rating $U_0/U$

300/500V

### Operating Temperature

-40°C to +60°C

Minimum installation and use temperature: -25°C

Maximum temperature of short circuit: +200°C

### Minimum Bending Radius

Fixed: 4 x overall diameter

Mobile: 6 x overall diameter

## STANDARDS

IEC/EN 50525-2-21, CEI 20-107/2-21, CEI 20-19/4  
(CENELEC HD 22.4 S4), BS 6500:2000, NF C 32-102-4  
VDE 0282-4, EN 50575:2014 + EN 50575/A1:2016

## CONSTRUCTION

### Conductor

Class 5 flexible copper conductor

### Insulation

EPR (Ethylene Propylene Rubber) EI4

### Sheath

PCP (Polychloroprene) EM2

### Core Identification

2 core: Blue Brown

3 core: Green/Yellow Blue Brown

4 core: Green/Yellow Brown Black Grey

### Sheath Colour

Black; customization is available

## 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.

DIMENSIONS

| NO. OF<br>CORES | NOMINAL CROSS<br>SECTIONAL AREA | MAXIMUM<br>CONDUCTOR<br>DIAMETER | NOMINAL<br>THICKNESS<br>OF INSULATION | NOMINAL<br>OVERALL DIAMETER<br>mm |         | NOMINAL<br>WEIGH |
|-----------------|---------------------------------|----------------------------------|---------------------------------------|-----------------------------------|---------|------------------|
|                 | mm2                             | mm                               | mm                                    | Minimum                           | Maximum | kg/km            |
| 2               | 0.75                            | 0.95                             | 0.6                                   | 5.7                               | 7.4     | 44               |
| 2               | 1                               | 1.3                              | 0.6                                   | 6.1                               | 8.0     | 55               |
| 3               | 0.75                            | 0.95                             | 0.6                                   | 6.2                               | 8.1     | 60               |
| 3               | 1                               | 1.3                              | 0.6                                   | 6.5                               | 8.5     | 72               |
| 4               | 0.75                            | 0.95                             | 0.6                                   | 6.8                               | 8.8     | 82               |
| 4               | 1                               | 1.30                             | 0.6                                   | 7.1                               | 9.3     | 87               |

ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS<br>SECTIONAL AREA | ELECTRIC RESISTANCE<br>AT 20°C | CURRENT CARRYING<br>CAPACITIES IN AIR 30°C |
|---------------------------------|--------------------------------|--------------------------------------------|
| mm2                             | Ohm/km                         | A                                          |
| 0.75                            | 26                             | 6                                          |
| 1                               | 19.5                           | 10                                         |