



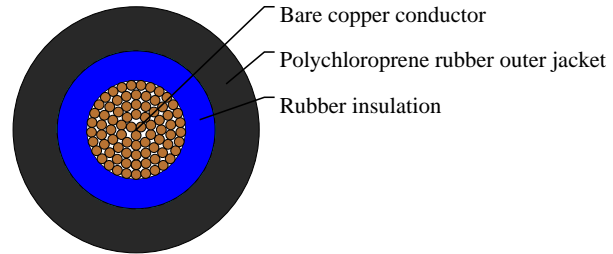
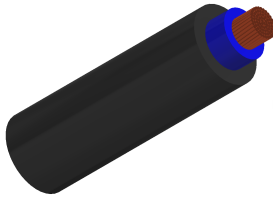
## Caledonian

Industrial Cables (Harmonized code)

[www.caledonian-cables.com](http://www.caledonian-cables.com)

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

### H07RN-F



### APPLICATIONS

These cables are designed to provide high flexibility and have the capacity to withstand weather, oils/ greases, mechanical and thermal stresses. Applications include handling equipment, mobile power supplies, worksites, stage and audio visual equipment, port areas and dams. Also suitable for fixed installations on plaster, temporary buildings and residential barracks and for use in drainage and water treatment, cold environments and severe industrial environments. Max operating voltage in single or three phase system is Uo/U 476/825 volts. In a direct current system max operating voltage is Uo/U 619/1238 volts. If in a fixed or protected installation Uo/U is 600/1000 volts. These cables are resistant to flame, acids, and oil penetration.

### STANDARDS

<HAR> HD22.4 S3

VDE-0282 Part-4

CEI 20-19/4 / 20-35 (EN60332-1)

IEC 60245-4

CE low voltage directive 73/23/EEC & 93/68/EEC

ROHS compliant

### VOLTAGE RATING

450/750V

### CABLE CONSTRUCTION

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Class-5
- Rubber core insulation EI4 to VDE-0282 Part-1
- Color code VDE-0293-308 and HD 186
- Green-yellow grounding, 3 conductors and above
- Polychloroprene rubber (neoprene) jacket EM2

### COLOUR CODE

Insulation Colour Code

Colour coded to VDE 0293-308/HD308/NF C 32-081

Single core - Black, Blue, Green/Yellow, Red, Yellow, White, Violet, Brown, Grey, Orange, Pink

### PHYSICAL AND THERMAL PROPERTIES



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- Test voltage: 2500 volts
- Flexing bending radius:  $6 \times \varnothing$
- Fixed bending radius:  $4.0 \times \varnothing$
- Flexing Temperature:  $-25^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Fixed Temperature:  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Short circuit temperature:  $+200^{\circ}\text{C}$
- Flame retardant: IEC 60332.1
- Insulation resistance:  $20\text{ M}\Omega \times \text{km}$

### DIMENSION AND PARAMETERS

No. of Cores × Cross- sectional Area	AWG Size	Nominal Insulation Thickness	Nominal Sheath Thickness	Overall Diameter (min.)	Overall Diameter (max.)	Nominal Copper Weight	Approx. Weight
No. × mm <sup>2</sup>		mm	mm	mm	mm	kg/km	kg/km
1x 10	8(80/26)	1.2	1.8	9.5	11.9	96	230