



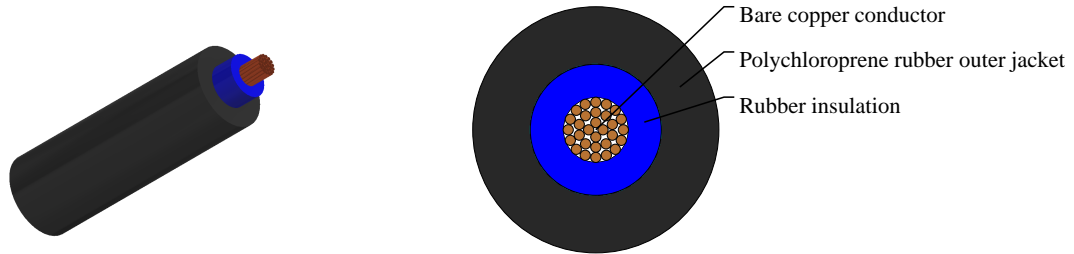
# Caledonian

Industrial Cables (German Standard)

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

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## 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

HD 22.4 S3

VDE-0282 Part-4

IEC 60245-4

## 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
- Green-yellow grounding, 3 conductors and above
- Polychloroprene rubber (neoprene) jacket EM2

## COLOUR CODE

Insulation Colour Code

Colour coded to VDE 0293-308 and HD 186

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

## PHYSICAL AND THERMAL PROPERTIES

- Test voltage: 2500 volts
- Flexing bending radius: 6 x Ø
- Fixed bending radius: 4.0 x Ø



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- Flexing temperature: -25° C to +60° C
- Fixed temperature: -40° C to +60° C
- Short circuit temperature: +200 ° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

## DIMENSION AND PARAMETERS

| No. of Cores<br>× Cross-sectional<br>Area | AWG Size  | Nominal<br>Insulation<br>Thickness | Nominal<br>Sheath<br>Thickness | Overall<br>Diameter<br>(min.) | Overall<br>Diameter<br>(max.) | Nominal<br>Copper<br>Weight | Approx.<br>Weight |
|---|-----------|------------------------------------|--------------------------------|-------------------------------|-------------------------------|-----------------------------|-------------------|
| No. × mm <sup>2</sup>                     |           | mm                                 | mm                             | mm                            | mm                            | kg/km                       | kg/km             |
| 1 x 1.5                                   | 16(30/30) | 0.8                                | 1.4                            | 5.7                           | 7.1                           | 14.4                        | 59                |