



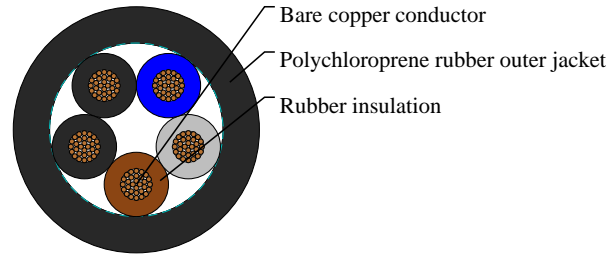
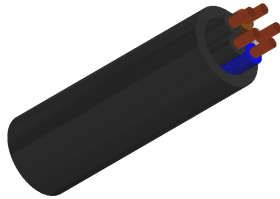
# Caledonian

Industrial Cables (German Standard)

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

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## A07RN-F



## APPLICATIONS

These cables are designed to provide high flexibility and have the capacity to withstand ozone, weather and oils/greases, mainly used for connecting of power tools, mobile units and machines for medium mechanical requirements in dry and humid rooms, for outdoor use, in explosive areas, in commercial and agricultural plants and on Cable Construction lots. Also suitable for fixed laying e.g. on-wall in provisional buildings, for directly laying on modules of hoisting devices, machinery etc. Max operating voltage in single or three phase system is U<sub>o</sub>/U 476/825 volts. In a direct current system max operating voltage is U<sub>o</sub>/U 619/1238 volts. If in a fixed or protected installation U<sub>o</sub>/U is 600/1000 volts.

## STANDARDS

Authorized national to A07RN-F

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
- Polychloroprene rubber (neoprene) jacket EM2

## COLOUR CODE

Insulation Colour Code

Colour coded to VDE 0293-308

5 cores - Blue + Brown + Black + Grey + Black

## PHYSICAL AND THERMAL PROPERTIES

- Test voltage: 2500 volts
- Flexing bending radius: 6 x Ø
- Fixed bending radius: 4.0 x Ø
- Flexing temperature: -25° C to +60° C



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- 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-<br>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             |
| 5 x 1.5                                       | 16(30/30) | 0.8                                | 1.8                            | 11.2                          | 14.4                          | 72                          | 240               |