Caledonian

Industrial Cables (German Standard)

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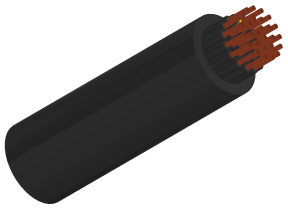
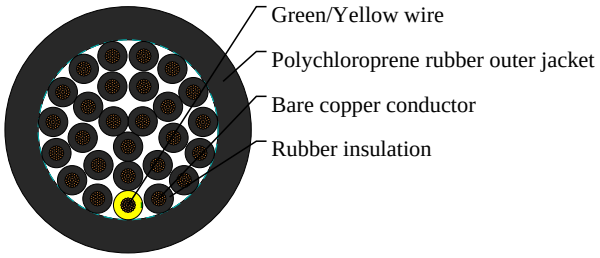
A07RN-F





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 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.

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
- Green-Yellow +Black numbered

PHYSICAL AND THERMAL PROPERTIES

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

- Fixed temperature: -40º C to +60º C
- Short circuit temperature: +200 º C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x 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.×mm²		mm	mm	mm	mm	kg/km	kg/km
27 x 1.5	16(30/30)	0.8	3.6	25.5	31.5	389	1077