



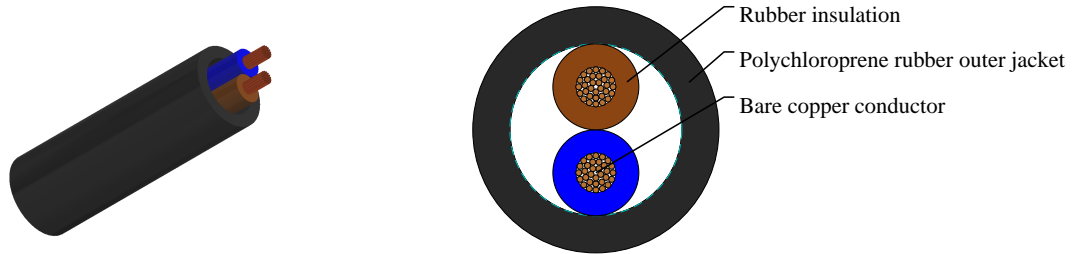
Caledonian

Industrial Cables (German Standard)

www.caledonian-cables.com

marketing@caledonian-cables.com

H07RN8-F



APPLICATIONS

These cables particularly for use in fresh water up to 10 m depth with a maximum water temperature up to 40°C , such as the connection of submersible pumps or similar applications. Not suitable for underwater power transmission or installation in a watercourse, or where it is possible that mechanical damage might occur and cause a hazard. Indirect underground installation is allowed provided that there is mechanically protection of the cables. These cables are manufactured according to the Standard and Approval CEI 20-19/16 (CENELEC HD 22.16). It is the only cable that the installation Standard and Approval CEI 64-8 at section 702 allows for installation in swimming pools and fountains. For connections liable to moderate mechanical stresses, i.e. industrial or agricultural workshop apparatus, large boilers, heater plates, electric tools such as drills and disk saws, electric appliances, portable motors and generators on building sites; also for fixed installations along floors or shelving on temporary job sites, for connecting structural elements in lifting apparatus, machinery, etc. Suitable for applications up to 1000 V for adequately protected fixed installations (i.e. inside pipes or equipment)as well as for rotor connections to lifting apparatus motors. They are Ozone, UV & weather resistant

STANDARDS

HD 22.16 S1

VDE-0282 Part-16

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

Color code VDE-0293-308 and HD 186

2 cores - Brown + Blue

PHYSICAL AND THERMAL PROPERTIES



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- Test voltage: 2500 volts
- Flexing bending radius: $6.0 \times \varnothing$
- Fixed bending radius: $4.0 \times \varnothing$
- Flexing temperature: -25°C to $+60^{\circ} \text{C}$
- Fixed temperature: -40°C to $+60^{\circ} \text{C}$
- Max water temperature: $+40^{\circ} \text{C}$
- Short circuit temperature: $+250^{\circ} \text{C}$
- 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 ² | | mm | mm | mm | mm | kg/km | kg/km |
| 2 x 1 | 17(32/32) | 0.8 | 1.3 | 7.7 | 10 | 19 | 89 |