



TECHNICAL DATA SHEET

Date: 12/11/2020
N° 14114 - rev.00
Page: 1/2
R&D

HF90



CONSTRUCTION

1. Conductor: Flexible bare copper wires according to IEC 60228 Class 5.
2. Insulation: EPR compound halogen-free and heat resistant for enhanced operating temperature, EI7 quality according to EN50363.
3. Outer sheath: Rubber compound, EM2 quality according to EN 50363, halogen free, oil and ozone resistant, colour black.

The cable is based on CEI EN 50525-2-21.

DESCRIPTION AND APPLICATIONS

Heavy rubber halogen-free flexible cable resistant to mechanical stress, oils, chemical corrosion and weathering. For installation in dry, damp or wet environments, in the open air, in workshop with explosive atmospheres. The HF 90 is suitable for connections liable to moderate mechanical stresses, e.g. industrial or agricultural workshop apparatus, large boilers, heater plates, portable lamps, electric tools such as drills and disk saws, electric appliances, portable motors and generators on building sites or farms, etc. Particularly recommended in indoor application due to the halogen-free and low smoke emission materials used. Also suitable for applications up to 1000 V for adequately protected fixed installation (i.e. inside pipes or equipment) as well as for rotor connections to lifting apparatus motors.



TECHNICAL DATA SHEET

Date: 12/11/2020
N° 14114 - rev.00
Page: 2/2
R&D

HF90

TECHINCAL DATA

Electrical working data

| | |
|----------------|----------|
| Rated voltage | 450/750V |
| Max AC voltage | 540/900V |
| Test voltage | 2500 V |

Thermal working data

| | |
|-------------------------------------|----------|
| Maximum working temperature | + 90°C |
| Maximum short circuit temperature | + 250 °C |
| Minimum laying temperature | - 15 °C |
| Minimum working temperature: static | - 50 °C |

Mechanical working data

| | |
|----------------------|--|
| Maximum water depth | 100 m |
| Maximum tensile load | 15 N/mm ² |
| Min. bending radius | 6 X D mm (mobile condition) 4 X D mm (static condition) D = outer diameter |

Chemical working data

| | |
|-------------------------|-----------------------------------|
| Resistant to oil | according to EN 60811-404 |
| Resistant to ozone | according to EN 60811-403 |
| Halogen free | according to EN 50267-2-1/2 |
| Low smoke emission | according to EN 61034-2 |
| Flame resistant | according to IEC 60332-1-2 |
| Absence of harmful mat. | according to Directive 2011/65/EC |