



ARISTONCAVI
R&D

TECHNICAL DATA SHEET

<HAR> H07RN8-F

Date: 12/07/2007

Pag. 1/2

Rev. 0

R&D



DESCRIPTION AND APPLICATION

For installation in dry, damp or wet environments, in workshops with explosive atmospheres: it could be immersed in fresh water up to 10 m depth and therefore it could be used as energy supply cable for submersed pumps. It is not suitable for underwater power transmission or installation in waterway or where is possible that mechanical damage might occur and cause hazard. For connections liable to moderate mechanical stress, i.e. industrial or agricultural workshop apparatus, large boilers, heater plates, electric tool such as drills and disk saws, electric appliances, portable motors and generators on building sites; also for fixed installations along floor or shelving on temporary job sites, for connecting structural elements in lifting apparatus, machinery, etc. Suitable for applications up to 1000 V for adequately protect fixed installations (i.e. pipes or equipment) as well as for rotor connections to lifting apparatus motors.

CONSTRUCTION

- Conductor: bare flexible copper, Class 5 according to IEC 60228, (HD 383, CEI 20-29);
- Insulation: EI4 quality rubber according to CEI EN 50363 (CEI 20-11);
- Inner Sheath: EM3 quality rubber compound * according to CEI EN 50363 (CEI 20-11);
- Sheath: EM 2 quality rubber compound according to CEI EN 50363 (CEI 20-11).

The cable is designed in accordance with HD 22.16 (CEI 20-19/16).

Quality Certificate: <HAR> IEMMEQU Marking.

COLOURS

According with HD 308

- | | |
|--------------------|---------------------------------------|
| 1 Core: | Black |
| 2 Cores: | Blue, Brown |
| 3 Cores: | Blue, Brown, Yellow/Green |
| 4 Cores: | Yellow/Green, Brown, Black, Grey |
| 5 Cores: | Yellow/Green, Blue, Brown Black, Grey |
| More than 5 Cores: | Yellow/Green + Black Numbered |



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WORKING DATA

Rated voltage:	450 / 750 V
Test voltage:	2,5 kV
Min. ambient temp.:	- 15°C (mobile conditions) - 40°C (static conditions)
Max operation temp.:	+ 60°C (HD 516, CEI 20-40)**
Min. laying temp.:	- 25°C
Short circuit temp.:	200°C
AD8 up to 10 m of depth in fresh water	
Min. bending radius static conditions:	4 × D (HD 516, CEI 20-40)
Min. bending radius mobile conditions:	6 × D (HD 516, CEI 20-40)

* For cables with a sheath thickness up 2,4 mm, the sheath may be made only in one layer of EM 2 compound.

** Maximum conductor temperature: 80°C.