



ARISTONCAVI  
R&D

## TECHNICAL DATA SHEET

NAUTILUS 500 - 0,6/1 kV

Date: 01/02/12

Page: 1/2

R&D

Rev 03

### CONSTRUCTION

- Conductor: tinned copper, Class 5 according to IEC 60228
- Insulation: EI7 quality rubber, in accordance with EN 50363-1
- Inner sheath: EPDM based rubber compound
- Sheath: CPE based rubber compound

The cable is designed in accordance with HD 22.16 and HD 22.12, as far as applicable

### COLOURS (Identification of cores in acc. to HD308)

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

### WORKING DATA

Rated voltage:	0,6/1 kV
Max AC voltage :	0,72/1,2 kV
Test voltage:	4000 V
Min. ambient temp.:	-25 °C
Max ambient temp.:	+80°C
Max operation temp.:	+90°C
Max. short circuit temp.:	250°C
Max depth in water:	500 m
Min. bending radius:	6 X D mm (mobile conditions) 4 X D mm (static conditions) D = outer diameter



ARISTONCAVI  
R&D

## TECHNICAL DATA SHEET

NAUTILUS 500 - 0,6/1 kV

Date: 01/02/12

Page: 2/2

R&D

Rev 03

### DESCRIPTION AND APPLICATIONS

NAUTILUS 500 is suitable for use in permanent immersion up to 500 m depth in water ( also sea water ) and, if armoured, it could be used for short under-water power transmission lines. 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.

### CURRENT CARRYING CAPACITY

Conductor cross section mm <sup>2</sup>	3 single core cables plane laying		1 three-four core cable	
	3 cores loaded			
	Laying in free air	Laying in water	Laying in free air	Laying in water
	A	A	A	A
1.5	24	29	23	29
2.5	33	38	32	38
4	45	52	42	52
6	58	67	54	67
10	80	94	75	94
16	107	125	100	125
25	141	166	127	166
35	176	205	158	205
50	216	256	192	256
70	279	316	246	316
95	342	377	298	377
120	400	438	346	438
150	464	505	399	505
185	533	577	456	577
240	634	681	538	681
300	736	785	621	785
400	868	919	-	-
500	998	1049	-	-

Conductor service temperature 90 °C

Ambient air/water temperature 30 °C