NAUTILUS 500 S

NAUTILUS 500 S 0,6/1kV
Based on CEI EN 50525-2-21



1 **PHASE CONDUCTORS**
MATERIAL: tinned copper
CONSTRUCTION: class 5 IEC 60228

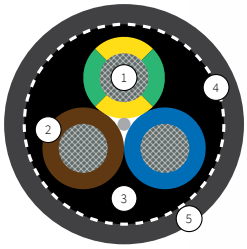
2 **INSULATION**
MATERIAL: EPR compound, EI7 quality according to EN 50363-1 and 3GI3 quality according to VDE 0207 part 20

CORES IDENTIFICATION
According to HD 308

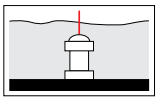
3 **INNER SHEATH**
MATERIAL: EPDM based rubber compound

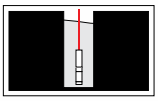
4 **SCREEN**
MATERIAL: tinned copper braid

5 **OUTER SHEATH**
MATERIAL: water resistant CPE based rubber compound
COLOUR: black



APPLICATION





Applications NAUTILUS 500S is a 0.6/1kV overall screened cable suitable for permanent immersion to a depth of 500 meters in fresh, salt and polluted water where mobile laying is needed, like power tools, submersible pumps etc. Available with steel armour for under-water power transmission in a fixed installation. The synthetic rubber compound is ozone, UV, sunlight and weather resistant.

ELECTRICAL WORKING DATA

Nominal rated voltage U_0 / U	kV	0,6/1
Test voltage	kV	4
Max AC voltage	kV	0,7/1,2
Max DC voltage	kV	1,8
Current rating	A	See table p. 63

THERMAL WORKING DATA

Maximum short circuit temperature	°C	250
Maximum working temp. on the conductor	°C	90
Minimum ambient temperature	°C	Mobile condition: - 25 Static condition: - 40

MECHANICAL WORKING DATA

Maximum water depth	m	500
Bending radius*	mm	14 x D
Maximum tensile load	N/mm²	15

* (D = outer diameter)

CHEMICAL WORKING DATA

Oil resistance	According to IEC 60811-404
Ozone resistance	According to IEC 60811-403
Behaviour in water	Water resistance test acc.to EN 50525-2-21 (AD8 condition) and AC internal test, suitable for immersion in sea and brackish water
UV resistance	According to ISO 4892-2
Burning behaviour	According to IEC 60332-1-2

CORES X CROSS SECTION Nr x mm²	CONDUCTOR Ø mm	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
3G1,5/1,5KON	1,5	12,5	13,1	240	68
3G2,5/2,5KON	1,9	14,3	14,9	320	113
3G4/4KON	2,4	15,8	16,4	410	180
3G6/6KON	2,9	17,8	18,4	550	270
3G10/10KON	3,8	20,8	21,9	810	450
3G16/16KON	4,9	23,7	24,8	1080	720
3x25 + 3x16/3 + KON	6,1	28,3	29,4	1640	1125
3x35 + 3x16/3 + KON	7,2	30,1	31,3	1980	1575
3x50 + 3x25/3 + KON	8,9	36,2	37,4	2860	2250
3x70 + 3x35/3 + KON	10,6	41,2	42,9	3880	3150
3x95 + 3x50/3 + KON	12,3	44,2	45,9	4660	4275
3x120 + 3x70/3 + KON	14,2	50,7	52,5	6070	5400