DRINCABLE® MT PLUS 3,6/6 kV

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Based on DIN VDE 0250 Part 813 - ACS / WRAS / D.M. 174/04

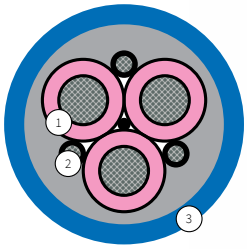
1 **PHASE CONDUCTORS**
MATERIAL: tinned copper
CONSTRUCTION: class 5 VDE 0295 (IEC 60228) (*)
INSULATION MATERIAL: 3GI3 quality rubber compound, according to VDE 0207 Part 20
INSULATION THICKNESS: according to VDE 0250 Part 813 table 1
SEMICONDUCTIVE LAYERS: semiconductive tape over the conductor and inner and outer semiconductive rubber layer on the insulation

2 **EARTH CONDUCTORS**
MATERIAL: tinned copper
CONSTRUCTION: class 5 VDE 0295 (IEC 60228) (*)
COVERING MATERIAL: semiconductive layer

CENTRAL FILLER
MATERIAL: semiconductive compound on textile polyester support

CORES ASSEMBLY
ASSEMBLY: twisted cores with earth conductor split into 3 parts
SEPARATOR ON THE TWISTED ASSEMBLY: 1,8/3 kV: semiconductive tape around the twisted cores

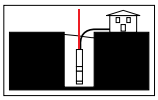
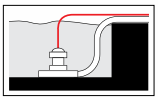
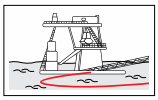
3 **OUTER SHEATH**
MATERIAL: special cross-linked compound, EM6 quality according to EN 50363-2-1
THICKNESS: according to VDE 0250 Part 813 (table 2)
COLOUR: blue



* Special construction to get improved flexibility



APPLICATION

Flexible energy supply cable for use in permanent immersion in drinking water, rain water, cooling water, sea water, river water and in environmentally sensitive environments. The exceptional performance of Aristoncavi DRINCABLE® MT PLUS is provided by the unique and proprietary compounds used for the outer sheath. The cables have successfully passed rigorous testing and are fully qualified to the British WRAS certification, the French ACS certification for direct and permanent immersion in potable water and are respecting the Italian DM 174/04. The approval protocols have verified the absence of microbial growth, the water taste, appearance, transparency and colour and the absence of any metals or toxic substances. Suitable for power supply to pumps, dredgers, floating docks and can be used for immersion at depths to 300 meters. Beeing the cable unarmoured, it is not suitable for under-water power transmission or installation in a waterway or where mechanical damage is possible.

ELECTRICAL WORKING DATA

Nominal rated voltage U_0 / U	kV	3,6/6
Test voltage	kV	11
Max AC voltage	kV	4,2/7,2
Electrical field control	kV	Inner and outer semiconductive layers extruded in a single-pass with the insulation
Current rating	A	According to VDE 0298 Part 4

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	300
Bending radius*	mm	according to VDE 0298 Part 3
Maximum tensile load	N/mm^2	15

* Referred to the total phase conductors cross section

CHEMICAL WORKING DATA

Chemicals resistance	Acid and alkaline solution acc.to IEC 60811-100
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

CORES X CROSS SECTION Nr x mm^2	CONDUCTOR Ø mm	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
3x25 + 3x25/3	6,8	39,9	41,6	2580	1125
3x35 + 3x25/3	7,8	42,9	44,6	3080	1575
3x50 + 3x25/3	9,4	46,0	47,7	3710	2250
3x70 + 3x35/3	11,2	49,8	51,6	4670	3150
3x95 + 3x50/3	12,7	55,8	57,6	5870	4275
3x120 + 3x70/3	14,4	59,6	61,4	7130	5400
3x150 + 3x70/3	16,3	66,0	68,3	8690	6750
3x185 + 3x95/3	17,6	67,9	70,2	9880	8325



