DRINCABLE® 07 / DRINCABLE® 1

DRINCABLE® 450/750 V - DRINCABLE® 0,6/1 kV

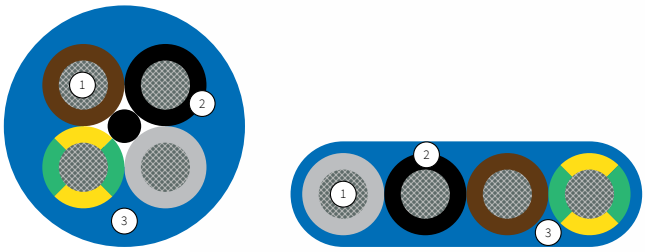
Based on CEI EN 50525-2-21
ACS - WRAS approved

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

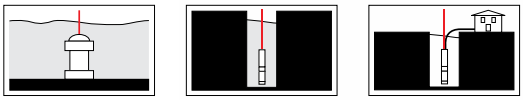
2 **INSULATION**
MATERIAL: EPR compound: EI6 quality (450/750V) acc.to EN 50363-1, 3GI3 quality (0,6/1kV) acc.to VDE 0207 part 20

CORES IDENTIFICATION
According to HD 308

3 **OUTER SHEATH**
MATERIAL: special cross-linked compound, EM6 quality (related to mechanical and thermal property) according to EN 50363-2-1
COLOUR: blue



APPLICATION



Flexible NON TOXIC, WATERPROOF and SUBMERSIBLE (up to 600 meters depth) electric cable, with special rubber insulation and outer sheath, suitable for permanent immersion in drinking water. The exceptional performance of Aristoncavi DRINCABLE® is provided by the unique and proprietary compound 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. On request DRINCABLE® is also available with a rated voltage of 0,6/1kV and in flat version (FL family). For submersible pumps for drinking water, operation and control equipment in aquariums, fish-ponds, operation of control, depuration/chlorination systems installed in water main and drinking water fountains, electrical installations in manufacturing, processing and preserving systems of drinks and foodstuff, swimming pool lightings, depuration and cleaning system.





ELECTRICAL WORKING DATA

Nominal rated voltage U_0 / U	V - kV	450/750 - 0,6/1
Test voltage	kV	2,5 - 4
Max AC voltage	V - kV	540/900 - 0,7/1,2
Max DC voltage	kV	1,35 - 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	600
Bending radius*	ROUND mm	Static condition: 3 x D Mobile condition: 5 x D
	FLAT mm	3 x H (for H ≤ 12 mm) 4 x H (for H > 12 mm)
Maximum tensile load	N/mm^2	15

* (D = outer diameter)

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



DRINCABLE® 07 / DRINCABLE® 1

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
1x1,5	1,5	5,7	6,6	45	23
1x2,5	1,9	5,9	6,8	55	38
1x4	2,4	6,5	7,5	75	60
1x6	2,9	7,4	8,4	100	90
1x10	3,8	8,6	9,7	150	150
1x16	4,9	10,0	11,1	210	240
1x25	6,1	11,9	13,1	310	375
1x35	7,2	13,0	14,3	400	525
1x50	8,9	15,7	17,1	590	750
1x70	10,6	17,8	19,3	790	1050
1x95	12,3	20,7	22,7	1050	1425
1x120	14,2	22,2	24,3	1280	1800
1x150	15,5	24,0	26,1	1570	2250
1x185	17,0	28,0	30,3	1980	2775
1x240	19,5	31,1	33,6	2500	3600
1x300	22,2	34,4	37,1	3110	4500
2x1	1,2	8,0	8,9	90	30
2x1,5	1,5	9,0	10,0	110	45
2x2,5	1,9	10,7	11,8	160	75
2x4	2,4	12,1	13,2	210	120
2x6	2,9	13,6	14,8	280	180
2x10	3,8	18,3	19,7	490	300
2x16	4,9	20,5	22,6	670	480
2x25	6,1	24,4	26,7	970	750
3G1,5	1,5	9,7	10,7	140	68
3G2,5	1,9	11,5	12,6	190	113
3G4	2,4	13	14,2	260	180
3G6	2,9	14,6	15,9	350	270
3G10	3,8	19,7	21,2	610	450
3G16	4,9	22,1	24,3	840	720
3G25	6,1	26,3	28,7	1220	1125
3G35	7,2	28,8	31,3	1560	1575
3G50	8,9	33,8	36,5	2210	2250
3G70	10,6	37,9	40,8	2930	3150
3G95	12,3	43,5	47,3	3840	4275
3G120	14,2	47,5	51,5	4730	5400
3G150	15,5	51,8	56,3	5870	6750
3G185	17,0	56,5	61,2	7090	8325

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
4G1,5	1,5	10,7	11,8	170	90
4G2,5	1,9	12,7	13,9	240	150
4G4	2,4	14,3	15,5	320	240
4G6	2,9	16,3	17,6	440	360
4G10	3,8	21,5	23,6	760	600
4G16	4,9	24,2	26,5	1050	960
4G25	6,1	29,2	31,7	1560	1500
4G35	7,2	32,0	34,7	2000	2100
4G50	8,9	39,2	42,2	2970	3000
4G70	10,6	42,2	45,9	3770	4200
4G95	12,3	48,9	52,9	4980	5700
4G120	14,2	53,0	57,2	6080	7200
4G150	15,5	57,9	62,7	7570	9000
4G185	17,0	63,2	68,6	9180	11100

FLAT CABLE

CORES X CROSS SECTION Nr x mm²	CONDUCTOR Ø mm	MIN HEIGHT mm	MAX HEIGHT mm	MIN WIDTH mm	MAX WIDTH mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
3G4	2,4	7,0	8,0	15,5	16,5	230	180
3G6	2,9	7,5	8,5	17,5	18,5	300	270
3G10	3,8	9,9	10,9	22,9	23,9	490	450
3G16	4,9	12,0	13,0	28,0	29,0	730	720
3G25	6,1	14,0	15,0	33,0	34,0	1060	1125
3G35	7,2	16,0	17,5	37,0	38,7	1430	1575
3G50	8,9	18,5	20,0	44,1	45,8	2010	2250
3G70	10,6	20,5	22,0	50,5	52,5	2680	3150
3G95	12,3	23,1	23,9	57,1	57,9	3380	4275
3G120	14,2	25,1	25,9	62,1	62,9	4160	5400
3G150	15,5	26,8	27,6	67,2	68,0	5080	6750
3G185	17,0	28,6	29,4	72,6	73,4	6110	8325
4G4	2,4	8,0	9,0	23,0	24,0	350	240
4G6	2,9	8,5	9,5	24,5	25,5	440	360
4G10	3,8	10,0	11,0	29,5	30,5	640	600
4G16	4,9	12,0	13,0	34,5	35,5	940	960
4G25	6,1	15,8	17,2	42,1	43,5	1500	1500
4G35	7,2	18,6	19,4	48,6	49,8	1990	2100
4G50	8,9	19,4	20,2	56,8	57,6	2650	3000
4G70	10,6	24,0	24,8	65,4	66,6	3720	4200
4G95	12,3	25,6	26,4	73,0	74,2	4680	5700
4G120	14,2	24,3	25,1	73,8	75,0	5260	7200