DRINCABLE® 07 / DRINCABLE® 1

Based on HD 22.16, HD 22.12

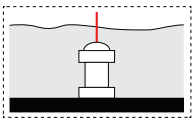
ACS / WRAS / D.M. 174/04

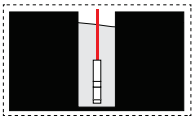


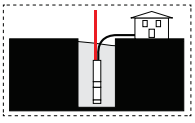
Cable construction

1	**Phase Conductors**	Conductor material	Tinned copper
		Conductor construction	Class 5 IEC 60228
2	**Insulation**	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

Applications 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 (according to BS 6920), 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. Electrical parameters: according to HD 22.12 and BS 7919. 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	520/900 - 0,7/1,2
Max DC voltage	kV	1,35 - 1,8
Current rating	A	See table p. 59

Thermal working data

Maximum short circuit temperature	°C	250
Maximum working temp. on the conductor	°C	90
Min ambient temperature	°C	- 25
Max water temperature	°C	40

Mechanical working data

Bending radius*	mm	ROUND: Static condition: 3 x D Mobile condition: 5 x D FLAT: 3 x H (for H ≤ 12 mm) 4 x H (for H > 12 mm)
Maximum tensile load	N/mm²	15

* (D = outer diameter) (H = height)

Chemical working data

Behaviour in water	HD 22.16 and AC internal test, suitable for immersion in salt and brackish water



DRINCABLE® 07 / DRINCABLE® 1

ROUND CABLES

Cores x cross section	Conductor Ø	Min overall Ø	Max overall Ø	Approx weight	Max tensile load
Nr x mm²	mm	mm	mm	kg/km	N
1x1,5	1,5	5,9	6,4	46	23
1x2,5	1,9	6,6	7,1	62	38
1x4	2,4	7,4	7,9	84	60
1x6	2,9	8,2	8,7	111	90
1x10	3,8	9,9	10,5	171	150
1x16	4,8	11,1	11,7	234	240
1x25	6,1	13,0	13,6	340	375
1x35	7,2	14,5	15,1	449	525
1x50	8,9	17,0	17,6	640	750
1x70	10,6	19,1	19,7	861	1050
1x95	12,3	21,7	22,8	1133	1425
1x120	13,8	23,8	24,9	1411	1800
1x150	15,5	26,4	27,5	1745	2250
1x185	17,0	29,0	30,2	2133	2775
1x240	19,5	32,0	33,2	2747	3600
1x300	22,2	35,0	36,2	3375	4500
2x1	1,3	8,0	8,5	87	30
2x1,5	1,5	9,0	9,5	111	45
2x2,5	1,9	10,7	11,3	161	75
2x4	2,4	12,1	12,7	218	120
2x6	2,9	13,6	14,2	287	180
2x10	3,8	18,3	18,9	507	300
2x16	4,8	20,5	21,6	684	480
2x25	6,1	24,4	25,5	995	750
3G1,5	1,5	9,7	10,3	135	68
3G2,5	1,9	11,5	12,1	198	113
3G4	2,4	13,0	13,6	271	180
3G6	2,9	14,6	15,2	358	270
3G10	3,8	19,7	20,3	635	450
3G16	4,8	22,1	23,2	864	720
3G25	6,1	26,3	27,4	1263	1125
3G35	7,2	28,8	29,9	1618	1575
3G50	8,9	33,8	35,0	2288	2250
3G70	10,6	37,9	39,1	3050	3150
3G95	12,3	43,5	45,2	4032	4275
3G120	13,8	47,5	49,2	4970	5400
3G150	15,5	52,8	54,6	6147	6750
3G185	17,0	58,1	59,9	7514	8325

Cores x cross section	Conductor Ø	Min overall Ø	Max overall Ø	Approx weight	Max tensile load
Nr x mm²	mm	mm	mm	kg/km	N
4G1,5	1,5	10,7	11,3	165	90
4G2,5	1,9	12,7	13,3	246	150
4G4	2,4	14,3	14,9	333	240
4G6	2,9	16,3	16,9	456	360
4G10	3,8	21,5	22,6	799	600
4G16	4,8	24,2	25,3	1082	960
4G25	6,1	29,2	30,4	1615	1500
4G35	7,2	32,0	33,2	2075	2100
4G50	8,9	39,2	40,4	3081	3000
4G70	10,6	42,2	43,9	3938	4200
4G95	12,3	48,9	50,7	5225	5700
4G120	13,8	53,0	54,8	6400	7200
4G150	15,5	59,1	60,9	7951	9000
4G185	17,0	65,0	67,3	9722	11100

FLAT CABLES

Cores x cross section	Conductor Ø	Min height	Max height	Min width	Max width	Approx weight	Max tensile load
Nr x mm²	mm	mm	mm	mm	mm	kg/km	N
3G4	2,4	7,0	8,0	15,5	16,5	250	180
3G6	2,9	7,5	8,5	17,5	18,5	325	270
3G10	3,8	9,9	10,9	22,9	23,9	535	450
3G16	4,8	12,0	13,0	28,0	29,0	780	720
3G25	6,1	14,0	15,0	33,0	34,0	1125	1125
3G35	7,2	16,0	17,5	37,0	38,7	1555	1575
3G50	8,9	18,5	20,0	44,1	45,8	2120	2250
3G70	10,6	20,5	22,0	50,5	52,5	2850	3150
3G95	12,5	23,1	23,9	57,1	57,9	3550	4275
4G4	2,4	8,0	9,0	23,0	24,0	395	240
4G6	2,9	8,5	9,5	24,5	25,5	470	360
4G10	3,8	10,0	11,0	29,5	30,5	710	600
4G16	4,8	12,0	13,0	34,5	35,5	1025	960
4G25	6,1	15,8	17,2	42,1	43,5	1600	1500
4G35	7,2	18,6	19,4	48,6	49,8	2120	2100
4G50	8,9	19,4	20,2	56,8	57,6	2770	3000