SUBFLAT

S1BNH2-F
Based on CEI EN 50525-2-21

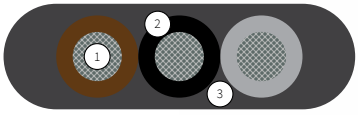


1 **PHASE CONDUCTORS**
MATERIAL: tinned copper
CONSTRUCTION: class 5 IEC 60228

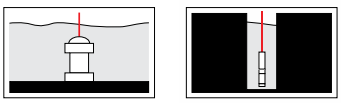
2 **INSULATION**
MATERIAL: EPR compound, 3GI3 quality according to VDE 0207 part 20

CORES IDENTIFICATION
According to HD 308

3 **OUTER SHEATH**
MATERIAL: water resistant rubber compound, EM2 quality
acc.to EN 50363-2-1
COLOUR: black



APPLICATION



Tough rubber unscreened 0.6/1kV flat cable for installation inside or outside in dry, damp or wet environments and in hazardous environments (subject to local regulations). It can be immersed in fresh and salt water to a depth of 300 meters: for flexible power supplies, suitable for submersible motors and pumps. 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	300
Bending radius*	FLAT mm	3 x H (for H ≤ 12 mm) 4 x H (for H > 12 mm)
Maximum tensile load	N/mm^2	15

* (H = height)

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



SUBFLAT

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	260	180
3G6	2,9	7,5	8,5	17,5	18,5	330	270
3G10	3,8	10,3	11,0	23,1	24,1	550	450
3G16	4,9	12,2	13,2	28,0	29,5	820	720
3G25	6,1	14,2	15,2	33,0	34,5	1180	1125
3G35	7,2	16,0	17,5	37,0	38,7	1560	1575
3G50	8,9	18,5	20,0	44,1	45,8	2190	2250
3G70	10,6	20,5	22,0	50,5	52,5	2890	3150
3G95	12,3	23,1	23,9	57,1	57,9	3610	4275
3G120	14,2	25,1	25,9	62,1	62,9	4420	5400
3G150	15,5	26,8	27,6	67,2	68,0	5370	6750
3G185	17,0	28,6	29,4	72,6	73,4	6440	8325



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
4G4	2,4	8,0	9,0	23,0	24,0	400	240
4G6	2,9	8,5	9,5	24,5	25,5	490	360
4G10	3,8	10,0	11,0	29,5	30,5	710	600
4G16	4,9	12,0	13,0	34,5	35,5	1040	960
4G25	6,1	15,8	17,2	42,1	43,5	1660	1500
4G35	7,2	18,6	19,4	48,6	49,8	2190	2100
4G50	8,9	19,4	20,2	56,8	57,6	2880	3000
4G70	10,6	24,0	24,8	65,4	66,6	4060	4200
4G95	12,3	25,6	26,4	73,0	74,2	5050	5700
4G120	14,2	24,3	25,1	73,8	75,0	5580	7200

