MARINE

RG7OEFE-0,6/1kV
Based on CEI 20-13, IEC 60502-1

1 **PHASE CONDUCTORS**
MATERIAL: tinned copper
CONSTRUCTION: class 2 IEC 60228

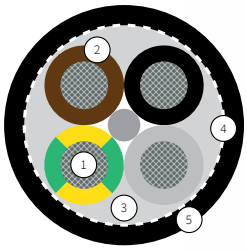
2 **INSULATION**
MATERIAL: cross-linked HEPR compound, G7 quality

CORES IDENTIFICATION
According to HD 308

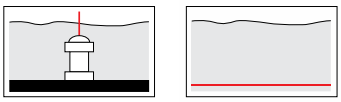
3 **INNER SHEATH**
MATERIAL: polyethylene

4 **ARMOURING**
MATERIAL: 1° galvanized steel wires, 2° spiral galvanized steel tape

5 **OUTER SHEATH**
MATERIAL: polyethylene
COLOUR: black



APPLICATION



Marine cable is a 0.6/1kV underwater cable designed to be laid on the sea bed in fixed installation. Marine cables require special designs that are able to withstand specific environmental conditions: external pressure and mechanical stress during laying operations or during service life. The specific type of armouring of this cable guarantees operations for deep-laying with an external pressure measuring up to 20 bar (approx 200 meters). The typical use is underwater power transmission in fresh or salt water. The type and quality of the material used for the outer sheath provide excellent ultraviolet resistance.



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	According to CEI 20-21, IEC 60287

THERMAL WORKING DATA

Maximum short circuit temperature	°C	250
Maximum working temp. on the conductor	°C	90
Minimum ambient temperature	°C	Static condition: - 30

MECHANICAL WORKING DATA

Maximum water depth	m	200
Bending radius*	mm	Static condition: 14 x D
Maximum tensile load	N/mm^2	75 (acc.to CEI 11-17)

* (D = outer diameter)

CHEMICAL WORKING DATA

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



MARINE

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
3G25	5,9	33,5	34,7	2450	5625
3G35	6,9	36,0	37,2	2760	7875
3G50	8,0	39,3	40,5	3340	11250
3G70	9,6	46,4	48,1	4790	15750
3G95	11,4	50,7	52,5	5940	21375
3G120	13,0	56,0	57,8	7400	27000
3G150	14,3	61,4	63,7	8930	33750
3G185	16,1	67,2	69,5	10620	41625
3G240	18,4	74,6	77,0	13160	54000
4G25	5,9	36,1	37,3	2900	7500
4G35	6,9	38,7	39,9	3320	10500
4G50	8,0	44,8	46,5	4490	15000
4G70	9,6	50,2	52,0	5810	21000
4G95	11,4	55,0	56,8	7250	28500
4G120	13,0	61,7	64,0	9280	36000
4G150	14,3	66,9	69,2	10930	45000
4G185	16,1	74,1	76,5	13260	55500
4G240	18,4	81,3	84,2	16360	72000
3x35 + 25N	6,9	38,1	39,3	3190	7875
3x50 + 25N	8,0	43,2	44,9	4150	11250
3x70 + 35N	9,6	47,8	49,5	5280	15750
3x95 + 50N	11,4	52,5	54,3	6560	21375
3x120 + 70N	13,0	59,2	61,0	8490	27000
3x150 + 95N	14,3	64,2	66,5	10110	33750

