

MEDIUM VOLTAGE 3,6/6kV, 6/10kV, 8,7/15kV, 12/20kV, 18/30kV

RFOU MV

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Offshore power medium voltage

DESIGN

Conductor

Class 2 conductor (class 5 on request) tinned copper, based on IEC 60228 (class 5 also available upon request).

Semiconducting

Semiconducting halogen free compound.

Insulation

Halogen Free Ethylene propylene, type EPR according to IEC 60092-351.

Insulation screen

Semiconducting halogen free compound + tinned copper wire braid.

The standard identification is the following:

- 1 conductor Natural
- 3 conductors off-white + black + red (other colors available as option)

Inner sheath

Halogen Free compound.

Braid / Armour

Tinned copper wires braid.

Outer sheath

Mud resistant thermosetting compound, red colour, low smoke and halogen free, type SHF MUD.

DESIGNATION

P2/P9: 3,6/6kV. P3/P10: 6/10kV. P4/P11: 8,7/15kV. P19/P21:12/20kV. P20/P22:18/30kV

APPLICATIONS

Offshore power Medium Voltage cables. Medium voltage heavy duty, mud resistant cables for offshore applications. Halogen free, flame and fire non propagator. Excellent resistance to oils, abrasion, petrochemical fluids, moisture and salt water. Based on IEC 60092-354 and NEK TS 606. Suitable for fixed installations in vessels and oil rigs.



PROPERTIES

Voltage rate	Cross section (mm ²)	Overall diameter [mm]	Weight (Kg/km)	Ampacity Open Air 45°C [A]	Max. Conductor Resistance at 20°C (Ohm /Km)
RFOU P2/P9 3,6/6 kV:					
	1 x 50	26,5	1.330	196	0,3930
	1 x 70	28,5	1.610	242	0,2770
	1 x 95	30,6	1.920	293	0,2100
	1 x 120	32,0	2.255	339	0,1640
	1 x 150	33,7	2.570	389	0,1320
	1 x 185	35,8	3.035	444	0,1080
	1 x 240	39,5	3.745	522	0,0817
	3 x 50/25	51,3	4.540	137	0,3930
	3 x 70/35	55,4	5.590	169	0,2770
	3 x 95/50	59,3	6.810	205	0,2100
	3 x 120/60	63,8	8.150	237	0,1640
RFOU P3/P10 6/10 kV:					
	1 x 50	28,5	1.470	196	0,3930
	1 x 70	30,2	1.730	242	0,2770
	1 x 95	32,0	2.090	293	0,2100
	1 x 120	34,1	2.410	339	0,1640
	1 x 150	35,6	2.750	389	0,1320
	1 x 185	38,2	3.250	444	0,1080
	1 x 240	41,2	4.030	522	0,0817
	3 x 50/25	55,2	5.200	137	0,3930
	3 x 70/35	59,2	6.150	169	0,2770
	3 x 95/50	63,6	7.490	205	0,2100
	3 x 120/60	67,7	8.795	237	0,1640
RFOU P4/P11 8,7/15 kV:					
	1 x 50	30,7	1.630	196	0,3930
	1 x 70	32,5	1.940	242	0,2770
	1 x 95	34,6	2.270	293	0,2100
	1 x 120	37,0	2.700	339	0,1640
	1 x 150	38,7	3.100	389	0,1320
	1 x 185	40,6	3.585	444	0,1080
	1 x 240	43,7	4.300	522	0,0817
	3 x 50/25	60,5	5.980	137	0,3930
	3 x 70/35	64,6	7.065	169	0,2770
	3 x 95/50	68,7	8.370	205	0,2100
	3 x 120/60	72,9	9.750	237	0,1640
RFOU P19/P21 12/20 kV:					
	1 x 50	33,0	1.810	196	0,3930
	1 x 70	34,8	2.080	242	0,2770
	1 x 95	37,4	2.490	293	0,2100
	1 x 120	39,1	2.830	339	0,1640
	1 x 150	41,1	3.280	389	0,1320
	1 x 185	43,4	3.795	444	0,1080
	1 x 240	46,2	4.530	522	0,0817
	3 x 50/25	65,5	6.745	137	0,3930
	3 x 70/35	69,5	7.810	169	0,2770
	3 x 95/50	73,6	9.170	205	0,2100
	3 x 120/60	77,8	10.650	237	0,1640

CHARACTERISTICS

Flexible conductor	Minimum bending radius: 15 x cable diameter	LSZH	Mechanical stress impact: AG3. High severity	Oil rigs	In conduit
Minimum service temperature: fixed -40°C mobile -25°C	Meter by meter marking	Low smoke emission: Light transmittance > 60%	Outdoor installation: permanent	Marine use	On tray
Maximum service temperature: 90°C	Flame non-propagation	Low corrosive gases emission	Water resistance: AD4 splashes	Public places	
Maximum short-circuit temperature: 250°C (maximum 5 s)	Fire non-propagation	Mud resistance NEK TS 606	Chemical & oil resistance: excellent	Open air	

INSTALLATION CONDITIONS

