SIENOPYR FR M2XCH 1,8/3 kV

Power cables for ships and offshore units with screen

Application

For fixed installation on ships and offshore units in all locations and on open decks. Special measures, e.g. screening are necessary for installation of unarmoured cables in radio stations or above the upper metallic deck. The cables are not suitable for continuous use in water.

Global data

Brand	SIENOPYR FR
Type designation	M2XCH
Standard	IEC 60092-353

Design features

Conductor	Copper, round stranded acc. to IEC 60228 class 2 or class 5
Insulation	Cross-linked-polyethylene (XLPE) acc. to IEC 60092-360
Core identification	1-core: brown 3-core: brown, black, grey
Inner covering	Halogen free, flame retardant compound
Screen	Plain copper wire braid
Outer sheath	Polyolefine compound, type SHF-1, according to IEC 60092-360

Electrical parameters

Rated voltage	1.8/3 kV
Max. permissible operating voltage AC	2.1/3.6 kV
Max. permissible operating voltage DC	2.7/5.4 kV
AC test voltage	6,5 kV
Current Carrying Capacity description	The definitions in IEC 60092-201 apply.

Chemical parameters

Smoke emmission	according to IEC 61034
Acidity of fire gases	according to IEC 60754-2
Flame propagation	according to IEC 60332-3-22
Flame propagation	according to IEC 60332-1-2

Thermal parameters

Max. permissible temperature at conductor	90 °C
Max. short circuit temperature of the conductor	250 °C
Ambient temperature for fix installation min.	-35 °C
Laying temperature min.	-15 °C

Mechanical parameters

Max. tensile load on the conductor	50 N/mm²
Min. bending radius	6 x D

Number of cores x cross section	Part number	MLFB Number	Outer diameter max. mm	Bending radius fixed min. mm	Weight (ca.) kg/km	Permis-sible tensile force max. N	Current carrying capacity (1) A
M2XCH 1 core							
1 x 95		5BG4512	21.5	129	1160	4750	293
1 x 120	20001771	5BG4513	22.5	135	1430	6000	339
1 x 150		5BG4514	24.5	147	1690	7500	389
1 x 185F	20170491	5BG4515	28	160	2060	9250	422
1 x 240F	20001772	5BG4516	30.5	183	2630	12000	496
1 x 300F	20157620	5BG4517	34	204	3150	15000	571
M2XCH 3 cores							
3 x 70		5BG4541	41	246	3360	10500	169
3 x 95	20001773	5BG4542	45	270	4480	14250	205
3 x 120		5BG4543	48	288	5250	18000	237

F = flexible conductor, stranded copper, class 5 acc. to IEC 60228
(1) The values are for continuous load at 45 °C ambient temperature and laying of max. 6 cables in horizontal arrangement, tightly packed, free air circulation around the cable bundle.
At ambient temperatures below -15 °C the cables should be subjected to no further mechanical movement than normal ship´s vibrations