

SIENOPYR FR M2XH 0,6/1 kV

Power cables for ships and offshore units without 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	M2XH
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	3-core: brown, black, grey 4-core: blue, brown, black, grey
Inner covering	Halogen free, flame retardant compound
Outer sheath	Polyolefine compound, type SHF-1, according to IEC 60092-360

Electrical parameters

Rated voltage	0.6/1 kV (600/1000V)
Max. permissible operating voltage AC	1.2 kV
Max. permissible operating voltage DC	1.8 kV
AC test voltage	3.5 kV
Current Carrying Capacity description	The definitions in IEC 60092-201 apply.

Chemical parameters

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

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/mm ²
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	Permissible tensile force max. N	Current carrying capacity (1) A
M2XH 3 core							
3 x 35	20001886	5BG6 738	27	162	1550	5250	110
3 x 50	20001887	5BG6 740	30.5	183	2060	7500	137
3 x 70	20001888	5BG6 741	35.2	212	2800	10500	169
3 x 95	20001889	5BG6 742	39.3	236	3740	14250	205
3 x 120	20001890	5BG6 743	41.7	251	4560	18000	237
3 x 70F		5BG6 351	36	216	2800	10500	161
3 x 95F		5BG6 354	40	240	3800	14250	195
3 x 120F		5BG6 345	43	258	4600	18000	225
M2XH 4 core							
4 x 35	20001892	5BG6 758	28.5	171	1860	7000	110
4 x 50	20001893	5BG6 760	32.5	195	2460	10000	137
4 x 70	20001894	5BG6 761	38	228	3460	14000	169
4 x 95	20001895	5BG6 762	43.5	261	4690	19000	205
4 x 70F		5BG6 333	40	240	3500	14000	161
4 x 95F		5BG6 334	44.5	267	4700	19000	195

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