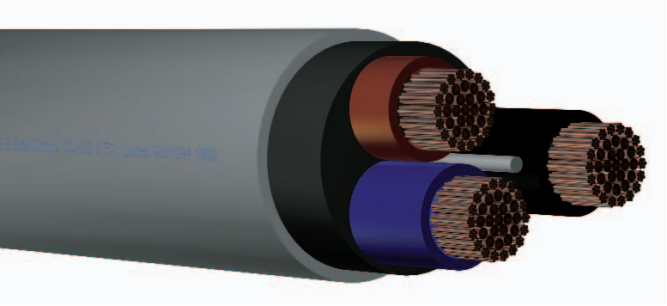
Power and control cables

HXXM EEP 0.6/1 kV IEC 60092-3

Class 5 conductors



Application:

Unarmored power and control cables 0.6/1 kV with special properties for electrical installations in ships and offshore units.
Temperature Class 85 °C, Flame Retardant (IEC 60332-3 category "A", "A/F"), Low Smoke, Halogen Free, Low Toxicity. Suitable for application in cold climate areas required to pass cold bend and cold impact testing at –40 °C and –35 °C, respectively.

Construction:

Generally according to IEC 60092-3 0.6/1 kV

Conductors:	flexible bare annealed copper, IEC 60228, (Class 5) sizes 1 - 300 mm^2
Insulation:	cross linked polyethylene (XLPE/ HF XLPE) according to IEC 60092-3, IEC 60092-351 and IEEE Std 45
Assembly:	cores cabled together
Filler:	halogen free filling compound
Sheathing:	halogen free, flame retardant (SHF1, IEC 60092-359); all sheath and jacketing materials shall pass tear resistance testing to 35 lbs/in (6.4 N/mm)
Sheathing color:	gray (other colors are available on request)

Identification of the cores:

1 core	black
2 cores	black, blue
3 cores	black, blue, brown
4 cores	black, blue, brown, green/yellow

Special cable properties:

Fire propagation:	IEC 60332-3 category "A", "A/F"
Smoke:	IEC 61034-1/2, MIL-C-24643A (par. 4.7.27) and NES 711
Acidity:	IEC 60754-1/2 and MIL-C-24643A (par. 4.7.25)
Halogen content:	IEC 60754-1/2 and MIL-C-24643A (par. 4.7.26)
Toxicity index:	NES 713
Cold properties:	cold bend (–40 °C) and cold impact (–35 °C) according to CAN/CSA-C22.2 No. 0.3-Dec. '92

General data for HXXM EEP 0.6/1 kV IEC 60092-3
Class 5 conductors

number of cores and nominal cross sectional area (n x mm²)	number of wires in conductor class 5 (n)	nominal conductor diameter (mm)	nominal core diameter (mm)	nominal outer diameter (inches)	nominal outer diameter (mm)	minimum bending radius (mm)	approxi-mate weight (lbs/M')	approxi-mate weight (kg/km)	conductor resistance at 20 °C DC (Ω/M')	conductor resistance at 20 °C DC (Ω/km)
1 x 35	266	8.2	11.0	0.535	13.6	82	286	425	0.169	0.544
1 x 50	380	9.8	12.8	0.713	18.1	109	474	705	0.118	0.386
1 x 70	330	11.6	15.1	0.811	20.6	124	638	950	0.083	0.272
1 x 95	437	13.1	16.8	0.886	22.5	135	806	1,200	0.063	0.206
1 x 120	562	15.4	19.2	0.988	25.1	151	1,008	1,500	0.049	0.161
1 x 150	703	17.1	21.2	1.094	27.8	167	1,257	1,870	0.039	0.129
1 x 185	851	18.5	22.8	1.165	29.6	178	1,478	2,200	0.032	0.106
1 x 240	1,117	21.3	26.0	1.307	33.2	199	1.951	2,850	0.0244	0.0801
1 x 300	1,384	23.7	28.8	1.429	36.3	218	2.318	3,450	0.0195	0.0641
2 x 35	266	8.2	11.0	1.067	27.1	163	941	1,400	0.169	0.554
2 x 50	380	9.8	12.8	1.228	31.2	187	1,277	1,900	0.118	0.386
2 x 70	330	11.6	15.1	1.437	36.5	219	1,767	2,630	0.083	0.272
2 x 95	437	13.1	16.8	1.587	40.3	242	2,231	3,320	0.063	0.206
3 x 35	266	8.2	11.0	1.154	29.3	176	1,159	1,725	0.169	0.554
3 x 50	380	9.8	12.8	1.315	33.4	200	1,566	2,330	0.118	0.386
3 x 70	330	11.6	15.1	1.543	39.2	235	2,184	3,250	0.083	0.272
3 x 95	437	13.1	16.8	1.701	43.2	259	2,779	4,135	0.063	0.206
3 x 120	562	15.4	19.2	1.929	49.0	294	3,548	5,280	0.049	0.161
3 x 150	703	17.1	21.2	2.122	53.9	323	4,368	6,500	0.039	0.129
3 x 185	851	18.5	22.8	2.272	57.7	346	5,157	7,675	0.032	0.106
3 x 240	1,117	21.3	26.0	2.579	65.5	393	6,703	9,975	0.0244	0.0801
4 x 35	266	8.2	11.0	1.272	32.3	194	1,428	2,125	0.169	0.554
4 x 50	380	9.8	12.8	1.457	37.0	222	1,939	2,885	0.118	0.386
4 x 70	330	11.6	15.1	1.709	43.4	260	2,715	4,040	0.083	0.272
4 x 95	437	13.1	16.8	1.890	48.0	288	3,464	5,155	0.063	0.206
4 x 120	562	15.4	19.2	2.146	54.5	327	4,428	6,590	0.049	0.161
4 x 150	703	17.1	21.2	2.354	59.8	359	5,433	8,085	0.039	0.129