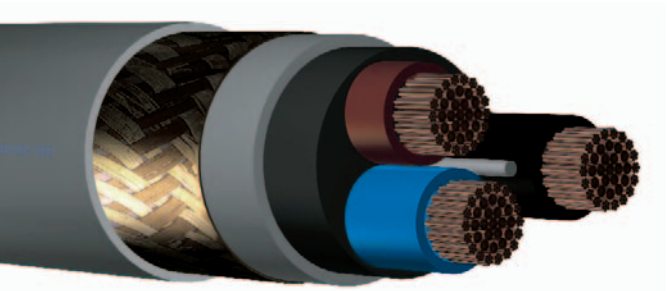


Power and control cables

HXXMB EEP 0.6/1 kV IEC 60092-3

Class 5 conductors



Application:

Armored 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 bent 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
Innersheath:	halogen free, flame retardant (SHF1, IEC 60092-359)
Braiding:	bronze wire according to IEEE Std 45, CDA 220, weight coverage 90% on nominal diameter according to IEC 60092-3, wire diameter 0.32 - 0.40 mm
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 HXXMB EEP 0.6/1 kV IEC 60092-3
Class 5 conductors**

number of cores and nominal cross sectional area (n x mm ²)	number of wires in conductor class 5 (n)	nominal conductor diameter (mm)	nominal core diameter (mm)	nominal diameter over inner-sheath (inches)	nominal diameter over inner-sheath (mm)	nominal diameter of braiding wire (mm)	nominal outer diameter (inches)	nominal outer diameter (mm)	minimum bending radius (mm)	approximate weight (lbs/M')	approximate 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	0.32	0.697	17.7	106	443	660	0.169	0.554
1 x 50	380	9.8	12.8	0.713	18.1	0.32	0.874	22.2	133	685	1,020	0.118	0.386
1 x 70	330	11.6	15.1	0.811	20.6	0.32	0.980	24.9	149	874	1,300	0.083	0.272
1 x 95	437	13.1	16.8	0.886	22.5	0.32	1.055	26.8	161	1,062	1,580	0.063	0.206
1 x 120	562	15.4	19.2	0.988	25.1	0.32	1.173	29.8	179	1,310	1,950	0.049	0.161
1 x 150	703	17.1	21.2	1.094	27.8	0.32	1.287	32.7	196	1,596	2,375	0.039	0.129
1 x 185	851	18.5	22.8	1.165	29.6	0.32	1.358	34.5	207	1,848	2,750	0.032	0.106
1 x 240	1,117	21.3	26.0	1.307	33.2	0.40	1.520	38.6	232	2,369	3,525	0.0244	0.0801
1 x 300	1,384	23.7	28.8	1.429	36.3	0.40	1.650	41.9	251	2,856	4,250	0.0195	0.0641
2 x 35	266	8.2	11.0	1.067	27.1	0.32	1.260	32.0	192	1,270	1,890	0.169	0.554
2 x 50	380	9.8	12.8	1.228	31.2	0.40	1.402	35.6	214	1,720	2,560	0.118	0.386
2 x 70	330	11.6	15.1	1.437	36.5	0.40	1.657	42.1	253	2,301	3,425	0.083	0.272
2 x 95	437	13.1	16.8	1.587	40.3	0.40	1.815	46.1	277	2,822	4,200	0.063	0.206
3 x 35	266	8.2	11.0	1.154	29.3	0.32	1.346	34.2	205	1,512	2,250	0.169	0.554
3 x 50	380	9.8	12.8	1.315	33.4	0.40	1.528	38.8	233	2,036	3,030	0.118	0.386
3 x 70	330	11.6	15.1	1.543	39.2	0.40	1.772	45.0	270	2,755	4,100	0.083	0.272
3 x 95	437	13.1	16.8	1.701	43.2	0.40	1.937	49.2	295	3,420	5,090	0.063	0.206
3 x 120	562	15.4	19.2	1.929	49.0	0.40	2.173	55.2	331	4,301	6,400	0.049	0.161
3 x 150	703	17.1	21.2	2.122	53.9	0.40	2.374	60.3	362	5,214	7,760	0.039	0.129
3 x 185	851	18.5	22.8	2.272	57.7	0.40	2.531	64.3	386	6,064	9,025	0.032	0.106
3 x 240	1,117	21.3	26.0	2.579	65.5	0.40	2.854	72.5	435	7,795	11,600	0.0244	0.0801
4 x 35	266	8.2	11.0	1.272	32.3	0.40	1.484	37.7	226	1,881	2,800	0.169	0.554
4 x 50	380	9.8	12.8	1.457	37.0	0.40	1.677	42.6	256	2,486	3,700	0.118	0.386
4 x 70	330	11.6	15.1	1.709	43.4	0.40	1.945	49.4	296	3,360	5,000	0.083	0.272
4 x 95	437	13.1	16.8	1.890	48.0	0.40	2.134	54.2	325	4,206	6,260	0.063	0.206
4 x 120	562	15.4	19.2	2.146	54.5	0.40	2.398	60.9	365	5,288	7,870	0.049	0.161
4 x 150	703	17.1	21.2	2.354	59.8	0.40	2.614	66.4	398	6,384	9,500	0.039	0.129