



BOSTRIG™ TYPE P-MR POWER CABLE 2000V

Single conductor / **armored and sheathed and unarmored ester-based mud resistant**
TYPE P-MR POWER CABLE 2000V or **4/0 AWG to 1111 MCM**



Applications

Bostrig Type P Mud Resistant Cable is primarily designed for power, control, signal, and instrumentation for marine vessels, and offshore production facilities. Instead of Polychloroprene (Neoprene), they are sheathed in our proprietary elastomeric formulation which is not only mud-resistant but is qualified as a Low-Smoke Zero-Halogen (LSZH) cable in accordance with IEEE 45, IEEE 1580.

This mud-resistant jacket is designed for use in areas where ester-based drilling muds and fluids are present. These cables are listed by ETL in accordance with IEEE 45 and type approved by DNV as resistant to NOVA Plus., Petrofree LE, and Petrofree drilling muds and fluids. The cable was tested in accordance with NEK 606 for 56 days at 70°C in each of the ester-based muds mentioned above.

This product can also be manufactured in an unarmored version.

Multiconductor power, control, and instrumentation cables are also available.

Features/Ratings

- Special ester-based mud resistant jacket also provides superior resistance to oil, abrasion, moisture, sunlight, crush and impact
- High strand count conductors provide superior flexibility
- Higher allowable conductor operating temperature results in increased ampacity
- Cold bend/ cold impact of -40°/ -35°C in accordance with CSA 22.2 No. 0.3
- Flame retardant in accordance with IEEE 1202 and IEC 60332-3-22 Category A

Approvals

IEEE 1580 and IEEE 45- Marine Shipboard Cable
UL 1309- Marine Shipboard Cable Type X110
CSA 22.2 No. 245- Marine Shipboard Cable Type X110
Det Norske Veritas (DNV)
American Bureau of Shipping (ABS)
Transport Canada Approved AMS400-20-2
Transport Canada 8700-20-2
Lloyd's Register of Shipping (LRS)
United States Coast Guard-46CFR

Construction

CONDUCTOR: Soft annealed tinned copper per ASTM B 33, stranded as shown in table on opposite page. A mylar separator is used over the conductor.

INSULATION: Bostrig Type P chemically cross-linked polyolefin (XLPO), meeting IEEE 1580.

ARMOR: Braided bronze in accordance with IEEE 1580.

SHEATH: Flame-Retardant XLPO applied over the armor, meeting requirements of Type L in IEEE 1580. Thickness as shown in tables on opposite page.



- Meets IEEE standards for 2000V and performance requirements of IEC standards for 0.6/1kV
- This product may be manufactured in an unarmored or armored and sheathed version
- Armored and sheathed cables suitable for use in Class 1 Division 1 and Zone 1 hazardous locations offshore
- Unarmored cables suitable for use in Class I, Division 2 zone 2 hazardous locations offshore

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A brand of the

Prysmian
Group

Armored and sheathed

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SPBM2KV(HD)-4/0	026034M	4/0	112.6	0.080	2.0	1.040	26.4	0.07	0.2	0.11	0.4	146	479	335	351	376	495	1,185	1,765
SPBM2KV(HD)-262	026035M	262	133.1	0.080	2.0	1.100	27.9	0.06	0.2	0.10	0.3	162	531	382	407	436	559	1,355	2,015
SPBM2KV(HD)-313	026036M	313	158.7	0.080	2.0	1.170	29.7	0.06	0.2	0.10	0.3	175	574	426	455	487	617	1,570	2,335
SPBM2KV(HD)-373	026037M	373	189.2	0.080	2.0	1.240	31.5	0.05	0.2	0.10	0.3	189	620	476	516	553	692	1,790	2,665
SPBM2KV(HD)-444	026038M	444	225.2	0.080	2.0	1.330	33.8	0.05	0.2	0.10	0.3	205	672	531	588	630	772	2,130	3,170
SPBM2KV(HD)-535	026039M	535	271.3	0.080	2.0	1.420	36.1	0.04	0.01	0.10	0.3	200	656	596	630	675	871	2,470	3,675
SPBM2KV(HD)-646	026040M	646	327.5	0.080	2.0	1.520	38.6	0.04	0.01	0.10	0.3	216	708	670	731	783	979	3,050	4,540
SPBM2KV(HD)-777	026041M	777	394.2	0.080	2.0	1.610	40.9	0.04	0.01	0.10	0.3	236	774	754	822	881	1,101	3,570	5,315
SPBM2KV(HD)-1111	026042M	1111	563.0	0.110	2.8	1.960	49.8	0.04	0.01	0.10	0.3	257	843	942	1,025	1,098	1,374	4,770	7,100

Unarmored

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SPM2KV(HD)-4/0	026015M	4/0	112.6	0.080	2.0	0.980	24.9	0.07	0.2	0.11	0.4	146	479	335	351	376	495	1,060	1,575
SPM2KV(HD)-262	026016M	262	133.1	0.080	2.0	1.050	26.7	0.06	0.2	0.10	0.3	162	531	382	407	436	559	1,215	1,810
SPM2KV(HD)-313	026017M	313	158.7	0.080	2.0	1.130	28.7	0.06	0.2	0.10	0.3	175	574	426	455	487	617	1,420	2,115
SPM2KV(HD)-373	026018M	373	189.2	0.080	2.0	1.190	30.2	0.05	0.2	0.10	0.3	189	620	476	516	553	692	1,635	2,435
SPM2KV(HD)-444	026019M	444	225.2	0.080	2.0	1.270	32.3	0.05	0.2	0.10	0.3	205	672	531	588	630	772	1,935	2,880
SPM2KV(HD)-535	026020M	535	271.3	0.080	2.0	1.360	34.5	0.04	0.1	0.10	0.3	200	656	596	630	675	871	2,260	3,365
SPM2KV(HD)-646	026021M	646	327.5	0.080	2.0	1.530	38.9	0.04	0.1	0.10	0.3	216	708	670	731	783	979	2,790	4,150
SPM2KV(HD)-777	026022M	777	394.2	0.080	2.0	1.650	41.9	0.04	0.1	0.10	0.3	236	774	754	822	881	1,101	3,290	4,895
SPM2KV(HD)-1111	026023M	1111	563.0	0.110	2.8	1.930	49.0	0.04	0.1	0.10	0.3	257	843	942	1,025	1,098	1,374	4,495	6,690

This information is provided for reference only. Please consult the factory or your representative to confirm all engineering information.

This information is not intended to replace the information in the appropriate and applicable standard or code.

†Ampacity based on 45°C ambient temperature: 95°C values based on ABS MODU Rules Table 6 - 100°C values based on IEEE-45 - 110°C values based on API 14F.

*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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Armored and sheathed

				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored	Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
		in	mm					
SPBM2KV(HD)-4/0	026034M	1.040	26.4	424AN-03/ 04/ 12/ 15	474SW-56	474NP-15/ 20	01 = 1/2"	03 = 1/2" - 14 NPT
SPBM2KV(HD)-262	026035M	1.100	27.9	424AN-04/ 15	474SW-56	474NP-15/ 20	02 = 3/4"	04 = 1/2" - 14 NPT
SPBM2KV(HD)-313	026036M	1.170	29.7	424AN-04/ 15	474SW-56	474NP-15/ 20	03 = 1"	07 = 3/4" - 14 NPT
SPBM2KV(HD)-373	026037M	1.240	31.5	424AN-05	474SW-56	474NP-15/ 20	04 = 1-1/4"	05 = 1/2" - 14 NPT
SPBM2KV(HD)-444	026038M	1.330	33.8	424AN-05	474SW-57	474NP-21/ 27	05 = 1-1/2"	08 = 3/4" - 14 NPT
SPBM2KV(HD)-535	026039M	1.420	36.1	424AN-05/ 06	474SW-57	474NP-21/ 27	06 = 2"	10 = 3/4" - 14 NPT
SPBM2KV(HD)-646	026040M	1.520	38.6	424AN-06	474SW-58	474NP-28/ 31	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
SPBM2KV(HD)-777	026041M	1.610	40.9	424AN-06	474SW-58	474NP-28/ 31	08 = 3"	15 = 1" - 11-1/2 NPT
SPBM2KV(HD)-1111	026042M	1.960	49.8	424AN-06/ 07	474SW-59	474NP-32	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
							10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
							12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
							15 = 1"	28 = 1-1/2" - 11-1/2 NPT
								31 = 2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								33 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

Unarmored

				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
		in	mm					
SPM2KV(HD)-4/0	026015M	0.980	24.9	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	01 = 1/2"	03 = 1/2" - 14 NPT
SPM2KV(HD)-262	026016M	1.050	26.7	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	02 = 1/2"	04 = 1/2" - 14 NPT
SPM2KV(HD)-313	026017M	1.130	28.7	424UB-05/ 15	494AB-57	494NE-21/ 27	03 = 3/4"	05 = 1/2" - 14 NPT
SPM2KV(HD)-373	026018M	1.190	30.2	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	04 = 1"	08 = 3/4" - 14 NPT
SPM2KV(HD)-444	026019M	1.270	32.3	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32	05 = 1-1/4"	10 = 3/4" - 14 NPT
SPM2KV(HD)-535	026020M	1.360	34.5	424UB-06	494AB-59	494NE-32	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
SPM2KV(HD)-646	026021M	1.530	38.9	424UB-06	494AB-59	494NE-32	06 = 2"	15 = 1" - 11-1/2 NPT
SPM2KV(HD)-777	026022M	1.650	41.9	424UB-06/ 07	494AB-61	494NE-38	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
SPM2KV(HD)-1111	026023M	1.930	49.0	424UB-07	494AB-61	494NE-38	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
							09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								44 = 3" - 8 NPT
								45 = 3" - 8 NPT