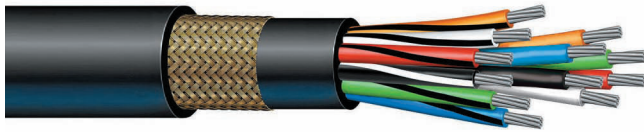




BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **armored and sheathed**

TYPE P CONTROL CABLE 600V or 0.6/1kV **18 AWG**



Applications

Bostrig™ Type P Marine and Offshore Cable is primarily designed for power, control, signal, and instrumentation applications for marine vessels, and offshore production facilities.

Bostrig™ cables have excellent resistance to oil, abrasion, moisture, vibration, sunlight, and ester based mud (Type P- MR). They are suitable for use in Class 1, Division 1 offshore applications (armored & sheathed).

The standard insulation has a continuous operating temperature of 125°C, allowing for higher ampacity levels. These cables also meet cold bend requirements of -40°C and cold impact of -35°C (CSA 22.2 NO. 0.3).

This product may be manufactured in an unarmored or armored and sheathed version.

Features/Ratings

- Superior resistance to oil, abrasion, moisture, sunlight, mud, 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
- Meets IEEE standards for 600V and performance requirements of IEC standards for 0.6/1 kV
- Armored and sheathed cables suitable for use in Class 1 Division 1 and Zone 1 hazardous locations offshore

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 stranded tinned copper per ASTM B 33. A polyester tape separator is used over the conductor.

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

JACKET: Flame-Retardant Thermosetting CPE (Chlorinated Polyethylene) applied over the armor in accordance with the requirements of IEEE-1580-2010. Thickness as shown in tables on opposite page. Arctic Neoprene (Type N) also available as an option.

ARMOR: Braided bronze in accordance with IEEE 1580.

SHEATH: Flame-Retardant Thermosetting CPE (Chlorinated Polyethylene) applied over the armor in accordance with the requirements of IEEE-1580-2010. Thickness as shown in tables on opposite page. Arctic Neoprene (Type N) also available as an option.



BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **armored and sheathed**
TYPE P CONTROL CABLE 600V or 0.6/1kV **18 AWG**



18 AWG / 600V or 0.6/1kV • 0.96 mm²

Type Designation	Draka Number	Number of Conductor	Insulation Thickness		Sheath Thickness		Cable Diameter		Cable Weight	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
C18PNBS-2	T26249	2	0.030	0.76	0.060	1.5	0.530	13.5	180	270
C18PNBS-3	T26250	3	0.030	0.76	0.060	1.5	0.540	13.7	200	300
C18PNBS-4	T26251	4	0.030	0.76	0.060	1.5	0.570	14.5	225	335
C18PNBS-5	T26252	5	0.030	0.76	0.060	1.5	0.610	15.5	250	370
C18PNBS-6	T26253	6	0.030	0.76	0.060	1.5	0.640	16.3	275	410
C18PNBS-7	T26254	7	0.030	0.76	0.060	1.5	0.640	16.3	285	425
C18PNBS-8	T26255	8	0.030	0.76	0.060	1.5	0.720	18.3	340	505
C18PNBS-10	T26256	10	0.030	0.76	0.060	1.5	0.750	19.1	365	545
C18PNBS-12	T26257	12	0.030	0.76	0.060	1.5	0.770	19.6	405	605
C18PNBS-16	T26258	16	0.030	0.76	0.080	2.0	0.890	22.6	500	745
C18PNBS-20	T26259	20	0.030	0.76	0.080	2.0	0.940	23.9	580	865
C18PNBS-24	T26260	24	0.030	0.76	0.080	2.0	1.010	25.7	680	1,010
C18PNBS-30	T26261	30	0.030	0.76	0.080	2.0	1.100	27.9	790	1,175
C18PNBS-37	T26262	37	0.030	0.76	0.080	2.0	1.160	29.5	935	1,390
C18PNBS-44	T26263	44	0.030	0.76	0.080	2.0	1.280	32.5	1,035	1,540
C18PNBS-60	T26264	60	0.030	0.76	0.080	2.0	1.390	35.3	1,355	2,015
C18PNBS-91	T26265	91	0.030	0.76	0.080	2.0	1.590	40.4	1,860	2,770

The current limit on these cables should be for providing control functions through relays and switching devices. The maximum current for any one conductor should not exceed the value Table 3 for three conductor cables. The average of all conductors should not exceed the limit based on the total number of conductors in the cable taken from Table 4 multiplied by the ampacity from Table 3. Three conductor or four conductor cables with three current carrying conductors may be used for continuous power.

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.

TABLE 3

Three Conductor Cable, Four Conductor Cables with Three Current Carrying Conductors 45°C Ambient

Conductor Size			95°C	100°C	110°C	125°C*
Gauge	CMA	mm ²				
18	1,620	0.82	11	12	13	13

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

TABLE 4

Cables with more than Four Current Carrying Conductors

Number of Conductors	% of 3 Conductor Ampacity Values
4-6	80
7-9	70
10-20	50
21-30	45
31-40	40
41-60	35
61 and greater	30

BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **armored and sheathed**

TYPE P CONTROL CABLE 600V or 0.6/1kV **18 AWG**

18 AWG / 600V or 0.6/1kV • 0.96 mm²

Type Designation	Draka Number	Cable Diameter (nominal)		GLAND SELECTION			GLAND REFERENCE CHART	
				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
C18PNBS-2	T26249	0.530	13.5	424AN-02/ 10	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
C18PNBS-3	T26250	0.540	13.7	424AN-02/ 10	474SW-52	474NP-04/ 07	02 = 3/4"	04 = 1/2" - 14 NPT
C18PNBS-4	T26251	0.570	14.5	424AN-02/ 10	474SW-53	474NP-05/ 08	03 = 1"	07 = 3/4" - 14 NPT
C18PNBS-5	T26252	0.610	15.5	424AN-02/ 10	474SW-53	474NP-05/ 08	04 = 1-1/4"	05 = 1/2" - 14 NPT
C18PNBS-6	T26253	0.640	16.3	424AN-02/ 10	474SW-53	474NP-05/ 08	05 = 1-1/2"	08 = 3/4" - 14 NPT
C18PNBS-7	T26254	0.640	16.3	424AN-02/ 10	474SW-53	474NP-05/ 08	06 = 2"	10 = 3/4" - 14 NPT
C18PNBS-8	T26255	0.720	18.3	424AN-03/ 12	474SW-53	474NP-05/ 08	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
C18PNBS-10	T26256	0.750	19.1	424AN-03/ 12	474SW-55	474NP-10/ 14	08 = 3"	15 = 1" - 11-1/2 NPT
C18PNBS-12	T26257	0.770	19.6	424AN-03/ 12	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
C18PNBS-16	T26258	0.890	22.6	424AN-04/ 15	474SW-55	474NP-10/ 14	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
C18PNBS-20	T26259	0.940	23.9	424AN-04/ 15	474SW-55	474NP-10/ 14	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
C18PNBS-24	T26260	1.010	25.7	424AN-04/ 15	474SW-56	474NP-15/ 20	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
C18PNBS-30	T26261	1.100	27.9	424AN-04/ 15	474SW-56	474NP-15/ 20		31 = 2" - 11-1/2 NPT
C18PNBS-37	T26262	1.160	29.5	424AN-05	474SW-56	474NP-15/ 20		32 = 2" - 11-1/2 NPT
C18PNBS-44	T26263	1.280	32.5	424AN-05	474SW-57	474NP-21/ 27		33 = 2" - 11-1/2 NPT
C18PNBS-60	T26264	1.390	35.3	424AN-05	474SW-57	474NP-21/ 27		38 = 2-1/2" - 8 NPT
C18PNBS-91	T26265	1.590	40.4	424AN-06	474SW-58	474NP-28/ 31		39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT