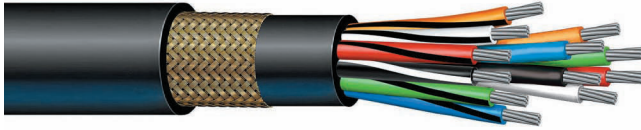




BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **armored and sheathed**

TYPE P CONTROL CABLE 600V or 0.6/1kV **12 & 10 AWG**



Applications

Bostrig™ Type P Marine and Offshore Cable is primarily designed for power, control, signal, and instrumentation applications for marine vessels, offshore and land drilling rigs, 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 and 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, 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) 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.



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Group

12 AWG • 3.08 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
C12PNBS-2	T26300	2	0.030	0.76	0.060	1.5	0.610	15.5	260	385
C12PNBS-3	T26301	3	0.030	0.76	0.060	1.5	0.640	16.3	295	440
C12PNBS-4	T26302	4	0.030	0.76	0.060	1.5	0.680	17.3	340	505
C12PNBS-5	T26303	5	0.030	0.76	0.060	1.5	0.710	18.0	370	550
C12PNBS-6	T26304	6	0.030	0.76	0.060	1.5	0.770	19.6	445	660
C12PNBS-7	T26305	7	0.030	0.76	0.060	1.5	0.770	19.6	460	685
C12PNBS-8	T26306	8	0.030	0.76	0.060	1.5	0.800	20.3	485	720
C12PNBS-10	T26307	10	0.030	0.76	0.080	2.0	0.960	24.4	675	1,005
C12PNBS-12	T26308	12	0.030	0.76	0.080	2.0	0.970	24.6	720	1,070
C12PNBS-16	T26309	16	0.030	0.76	0.080	2.0	1.110	28.2	955	1,420
C12PNBS-20	T26310	20	0.030	0.76	0.080	2.0	1.190	30.2	1,135	1,690
C12PNBS-24	T26311	24	0.030	0.76	0.080	2.0	1.310	33.3	1,310	1,950
C12PNBS-30	T26312	30	0.030	0.76	0.080	2.0	1.330	33.8	1,495	2,225
C12PNBS-37	T26313	37	0.030	0.76	0.080	2.0	1.460	37.1	1,765	2,625
C12PNBS-44	T26314	44	0.030	0.76	0.080	2.0	1.620	41.1	2,100	3,125
C12PNBS-60	T26315	60	0.030	0.76	0.110	2.8	1.830	46.5	2,770	4,120
C12PNBS-91	T26316	91	0.030	0.76	0.110	2.8	2.200	55.9	4,045	6,020

10 AWG • 5.53 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
C10PNBS-2	T26317	2	0.030	0.76	0.060	1.5	0.680	17.3	320	475
C10PNBS-3	T26318	3	0.030	0.76	0.060	1.5	0.700	17.8	375	560
C10PNBS-4	T26319	4	0.030	0.76	0.060	1.5	0.750	19.1	440	655
C10PNBS-5	T26320	5	0.030	0.76	0.060	1.5	0.800	20.3	510	760
C10PNBS-6	T26321	6	0.030	0.76	0.080	2.0	0.900	22.9	600	895
C10PNBS-7	T26322	7	0.030	0.76	0.080	2.0	0.900	22.9	635	945
C10PNBS-8	T26323	8	0.030	0.76	0.080	2.0	0.950	24.1	710	1,055
C10PNBS-10	T26324	10	0.030	0.76	0.080	2.0	1.120	28.4	950	1,415

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				
12	6,503	3.30	26	31	33	37
10	10,908	5.53	37	41	44	49

*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

Prysmian
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12 AWG • 3.08 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
					(metric)	(NPT)		
		in	mm					
C12PNBS-2	T26300	0.610	15.5	424AN-02/ 10	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
C12PNBS-3	T26301	0.640	16.3	424AN-02/ 10	474SW-53	474NP-05/ 08	02 = 3/4"	04 = 1/2" - 14 NPT
C12PNBS-4	T26302	0.680	17.3	424AN-02/ 03/ 10/ 12	474SW-53	474NP-05/ 08	03 = 1"	07 = 3/4" - 14 NPT
C12PNBS-5	T26303	0.710	18.0	424AN-02/ 03/ 10/ 12	474SW-53	474NP-05/ 08	04 = 1-1/4"	05 = 1/2" - 14 NPT
C12PNBS-6	T26304	0.770	19.6	424AN-03/ 12	474SW-55	474NP-10/ 14	05 = 1-1/2"	08 = 3/4" - 14 NPT
C12PNBS-7	T26305	0.770	19.6	424AN-03/ 12	474SW-55	474NP-10/ 14	06 = 2"	10 = 3/4" - 14 NPT
C12PNBS-8	T26306	0.800	20.3	424AN-03/ 12	474SW-55	474NP-10/ 14	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
C12PNBS-10	T26307	0.960	24.4	424AN-04/ 15	474SW-55	474NP-10/ 14	08 = 3"	15 = 1" - 11-1/2 NPT
C12PNBS-12	T26308	0.970	24.6	424AN-04/ 15	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
C12PNBS-16	T26309	1.110	28.2	424AN-04/ 15	474SW-56	474NP-15/ 20	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
C12PNBS-20	T26310	1.190	30.2	424AN-04/ 05/ 15	474SW-56	474NP-15/ 20	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
C12PNBS-24	T26311	1.310	33.3	424AN-05	474SW-57	474NP-21/ 27	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
C12PNBS-30	T26312	1.330	33.8	424AN-05	474SW-57	474NP-21/ 27		31 = 2" - 11-1/2 NPT
C12PNBS-37	T26313	1.460	37.1	424AN-05/ 06	474SW-57	474NP-21/ 27		32 = 2" - 11-1/2 NPT
C12PNBS-44	T26314	1.620	41.1	424AN-06	474SW-58	474NP-28/ 31		33 = 2" - 11-1/2 NPT
C12PNBS-60	T26315	1.830	46.5	424AN-06	474SW-59	474NP-32		38 = 2-1/2" - 8 NPT
C12PNBS-91	T26316	2.200	55.9	424AN-07	474SW-60/ 61	474NP-33/ 38		39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

10 AWG • 5.53 mm²

Type Designation	Draka Number	Cable Diameter (nominal)		GLAND SELECTION		
				Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored
					(metric)	(NPT)
		in	mm			
C10PNBS-2	T26317	0.680	17.3	424AN-03/ 12	474SW-53	474NP-05/ 08
C10PNBS-3	T26318	0.700	17.8	424AN-03/ 12	474SW-53	474NP-05/ 08
C10PNBS-4	T26319	0.750	19.1	424AN-03/ 12	474SW-55	474NP-10/ 14
C10PNBS-5	T26320	0.800	20.3	424AN-03/ 12	474SW-55	474NP-10/ 14
C10PNBS-6	T26321	0.900	22.9	424AN-03/ 12	474SW-55	474NP-10/ 14
C10PNBS-7	T26322	0.900	22.9	424AN-03/ 12	474SW-55	474NP-10/ 14
C10PNBS-8	T26323	0.950	24.1	424AN-04/ 15	474SW-55	474NP-10/ 14
C10PNBS-10	T26324	1.120	28.4	424AN-04/ 15	474SW-56	474NP-15/ 20