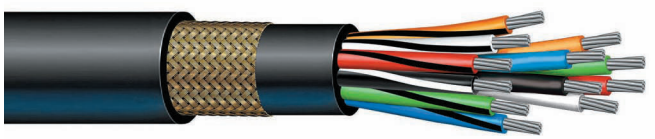
BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **armored and sheathed**
TYPE P CONTROL CABLE 600V or 0.6/1kV **14 AWG**



Applications

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

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14 AWG / 600V or 0.6/1kV • 1.94 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
C14PNBS-2	T26283	2	.030	0.76	0.060	1.5	0.570	14.5	220	325
C14PNBS-3	T26284	3	.030	0.76	0.060	1.5	0.590	15.0	245	365
C14PNBS-4	T26285	4	.030	0.76	0.060	1.5	0.630	16.0	285	425
C14PNBS-5	T26286	5	.030	0.76	0.060	1.5	0.650	16.5	320	475
C14PNBS-6	T26287	6	.030	0.76	0.060	1.5	0.710	18.0	340	505
C14PNBS-7	T26288	7	.030	0.76	0.060	1.5	0.710	18.0	380	565
C14PNBS-8	T26289	8	.030	0.76	0.060	1.5	0.740	18.8	395	590
C14PNBS-10	T26290	10	.030	0.76	0.080	2.0	0.900	22.9	505	750
C14PNBS-12	T26291	12	.030	0.76	0.080	2.0	0.880	22.4	575	855
C14PNBS-16	T26292	16	.030	0.76	0.080	2.0	0.980	24.9	715	1,065
C14PNBS-20	T26293	20	.030	0.76	0.080	2.0	1.030	26.2	840	1,250
C14PNBS-24	T26294	24	.030	0.76	0.080	2.0	1.170	29.7	930	1,385
C14PNBS-30	T26295	30	.030	0.76	0.080	2.0	1.250	31.8	1,175	1,750
C14PNBS-37	T26296	37	.030	0.76	0.080	2.0	1.300	33.0	1,345	2,000
C14PNBS-44	T26297	44	.030	0.76	0.080	2.0	1.440	36.6	1,510	2,245
C14PNBS-60	T26298	60	.030	0.76	0.080	2.0	1.590	40.4	2,020	3,005
C14PNBS-91	T26299	91	.030	0.76	0.110	2.8	1.990	50.5	3,215	4,785

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	mm²				
14	4,106	2.08	20	25	27	28

*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

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				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		(metric)	(NPT)		
C14PNBS-2	T26283	0.570	14.5	424AN-01/ 02/ 10	***	493NE-04/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
C14PNBS-3	T26284	0.590	15.0	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	02 = 3/4"	04 = 1/2" - 14 NPT
C14PNBS-4	T26285	0.630	16.0	424AN-02/ 10	***	493NE-04/ 08	03 = 1"	07 = 3/4" - 14 NPT
C14PNBS-5	T26286	0.650	16.5	424AN-02	474SW-53	474NP-05/ 08	04 = 1-1/4"	05 = 1/2" - 14 NPT
C14PNBS-6	T26287	0.710	18.0	424AN-03/ 12	474SW-53	474NP-05/ 08	05 = 1-1/2"	08 = 3/4" - 14 NPT
C14PNBS-7	T26288	0.710	18.0	424AN-03/ 12	474SW-53	474NP-05/ 08	06 = 2"	10 = 3/4" - 14 NPT
C14PNBS-8	T26289	0.740	18.8	424AN-03/ 12	474SW-53	474NP-05/ 08	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
C14PNBS-10	T26290	0.900	22.9	424AN-03/ 12	474SW-55	474NP-10/ 14	08 = 3"	15 = 1" - 11-1/2 NPT
C14PNBS-12	T26291	0.880	22.4	424AN-03/ 12	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
C14PNBS-16	T26292	0.980	24.9	424AN-04/ 15	474SW-55	474NP-10/ 14	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
C14PNBS-20	T26293	1.030	26.2	424AN-04/ 15	474SW-56	474NP-15/ 20	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
C14PNBS-24	T26294	1.170	29.7	424AN-04/ 05/ 15	474SW-56	474NP-15/ 20	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
C14PNBS-30	T26295	1.250	31.8	424AN-05	474SW-56	474NP-15/ 20		31 = 2" - 11-1/2 NPT
C14PNBS-37	T26296	1.300	33.0	424AN-05	474SW-57	474NP-21/ 27		32 = 2" - 11-1/2 NPT
C14PNBS-44	T26297	1.440	36.6	424AN-05	474SW-57	474NP-21/ 27		33 = 2" - 11-1/2 NPT
C14PNBS-60	T26298	1.590	40.4	424AN-06	474SW-58	474NP-28/ 31		38 = 2-1/2" - 8 NPT
C14PNBS-91	T26299	1.990	50.5	424AN-06	474SW-59	474NP-32		39 = 2 1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

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