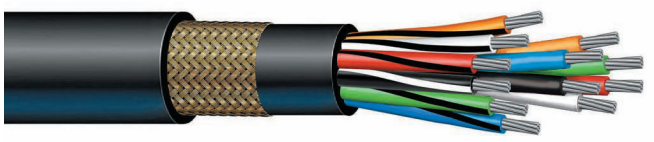
BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **armored and sheathed**
TYPE P CONTROL CABLE 600V or 0.6/1kV **16 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 & 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.

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16 AWG / 600V or 0.6/1kV • 1.23 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
C16PNBS-2	T26266	2	0.030	0.76	0.060	1.5	0.550	14.0	200	300
C16PNBS-3	T26267	3	0.030	0.76	0.060	1.5	0.560	14.2	220	325
C16PNBS-4	T26268	4	0.030	0.76	0.060	1.5	0.590	15.0	235	350
C16PNBS-5	T26269	5	0.030	0.76	0.060	1.5	0.630	16.0	275	410
C16PNBS-6	T26270	6	0.030	0.76	0.060	1.5	0.650	16.5	295	440
C16PNBS-7	T26271	7	0.030	0.76	0.060	1.5	0.650	16.5	315	470
C16PNBS-8	T26272	8	0.030	0.76	0.060	1.5	0.700	17.8	360	535
C16PNBS-10	T26273	10	0.030	0.76	0.060	1.5	0.780	19.8	420	625
C16PNBS-12	T26274	12	0.030	0.76	0.060	1.5	0.800	20.3	445	660
C16PNBS-16	T26275	16	0.030	0.76	0.080	2.0	0.910	23.1	585	870
C16PNBS-20	T26276	20	0.030	0.76	0.080	2.0	0.970	24.6	680	1,010
C16PNBS-24	T26277	24	0.030	0.76	0.080	2.0	1.030	26.2	760	1,130
C16PNBS-30	T26278	30	0.030	0.76	0.080	2.0	1.140	29.0	865	1,285
C16PNBS-37	T26279	37	0.030	0.76	0.080	2.0	1.220	31.0	1,080	1,605
C16PNBS-44	T26280	44	0.030	0.76	0.080	2.0	1.320	33.5	1,125	1,675
C16PNBS-60	T26281	60	0.030	0.76	0.080	2.0	1.460	37.1	1,580	2,350
C16PNBS-91	T26282	91	0.030	0.76	0.110	2.8	1.760	44.7	2,365	3,520

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				
16	2,601	1.32	16	17	18	18

*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)		
C16PNBS-2	T26266	0.550	14.0	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
C16PNBS-3	T26267	0.560	14.2	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	02 = 3/4"	04 = 1/2" - 14 NPT
C16PNBS-4	T26268	0.590	15.0	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	03 = 1"	07 = 3/4" - 14 NPT
C16PNBS-5	T26269	0.630	16.0	424AN-02/ 10	***	493NE-08/ 14	04 = 1-1/4"	05 = 1/2" - 14 NPT
C16PNBS-6	T26270	0.650	16.5	424AN-02/ 10	474SW-53	474NP-05/ 08	05 = 1-1/2"	08 = 3/4" - 14 NPT
C16PNBS-7	T26271	0.650	16.5	424AN-02	474SW-53	474NP-05/ 08	06 = 2"	10 = 3/4" - 14 NPT
C16PNBS-8	T26272	0.700	17.8	424AN-03/ 12	474SW-53	474NP-05/ 08	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
C16PNBS-10	T26273	0.780	19.8	424AN-03/ 12	474SW-55	474NP-10/ 14	08 = 3"	15 = 1" - 11-1/2 NPT
C16PNBS-12	T26274	0.800	20.3	424AN-03/ 12	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
C16PNBS-16	T26275	0.910	23.1	424AN-03/ 12	474SW-55	474NP-10/ 14	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
C16PNBS-20	T26276	0.970	24.6	424AN-04/ 15	474SW-55	474NP-10/ 14	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
C16PNBS-24	T26277	1.030	26.2	424AN-04/ 15	474SW-56	474NP-15/ 20	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
C16PNBS-30	T26278	1.140	29.0	424AN-04/ 15	474SW-56	474NP-15/ 20		31 = 2" - 11-1/2 NPT
C16PNBS-37	T26279	1.220	31.0	424AN-05	474SW-56	474NP-15/ 20		32 = 2" - 11-1/2 NPT
C16PNBS-44	T26280	1.320	33.5	424AN-05	474SW-57	474NP 21/ 27		33 = 2" - 11-1/2 NPT
C16PNBS-60	T26281	1.460	37.1	424AN-05/ 06	474SW-57	474NP 21/ 27		38 = 2-1/2" - 8 NPT
C16PNBS-91	T26282	1.760	44.7	424AN-06	***	493NE-32		39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

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