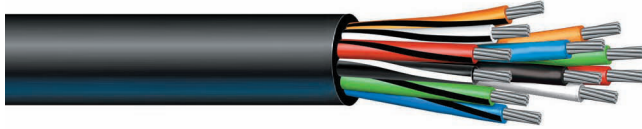




BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **unarmored**

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 and 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
- Unarmored cables suitable for use in Class I Division 2 and Zone 2 hazardous locations
- Meets the requirements of UL 1277 and UL 1569 for Type TC-ER exposed runs

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
CSA 22.2 No. 239- Type CIC
CSA 22.2 No. 230- Type TC-ER
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.



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A brand of the

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Group

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
C16PN-2	T26190	2	0.030	0.76	0.060	1.5	0.360	9.1	70	105
C16PN-3	T26191	3	0.030	0.76	0.060	1.5	0.380	9.7	85	125
C16PN-4	T26192	4	0.030	0.76	0.060	1.5	0.410	10.4	105	155
C16PN-5	T26193	5	0.030	0.76	0.060	1.5	0.440	11.2	125	185
C16PN-6	T26194	6	0.030	0.76	0.060	1.5	0.480	12.2	145	215
C16PN-7	T26195	7	0.030	0.76	0.060	1.5	0.480	12.2	150	225
C16PN-8	T26196	8	0.030	0.76	0.060	1.5	0.520	13.2	185	275
C16PN-10	T26197	10	0.030	0.76	0.060	1.5	0.600	15.2	220	325
C16PN-12	T26198	12	0.030	0.76	0.060	1.5	0.620	15.7	235	350
C16PN-16	T26199	16	0.030	0.76	0.060	1.5	0.680	17.3	315	470
C16PN-20	T26200	20	0.030	0.76	0.060	1.5	0.750	19.1	385	575
C16PN-24	T26201	24	0.030	0.76	0.060	1.5	0.810	20.6	450	670
C16PN-30	T26202	30	0.030	0.76	0.080	2.0	0.930	23.6	580	865
C16PN-37	T26203	37	0.030	0.76	0.080	2.0	1.000	25.4	695	1,035
C16PN-44	T26204	44	0.030	0.76	0.080	2.0	1.120	28.4	825	1,230
C16PN-60	T26205	60	0.030	0.76	0.080	2.0	1.230	31.2	1,070	1,590
C16PN-91	T26206	91	0.030	0.76	0.080	2.0	1.420	36.1	1,645	2,450

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				
16	2,061	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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16 AWG / 600V or 0.6/1kV • 1.23 mm²

				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored (metric)	Non-Explosion Proof: Unarmored: (NPT)	Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
		in	mm					
C16PN-2	T26190	0.360	9.1	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
C16PN-3	T26191	0.380	9.7	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	02 = 1/2"	04 = 1/2" - 14 NPT
C16PN-4	T26192	0.410	10.4	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	03 = 3/4"	05 = 1/2" - 14 NPT
C16PN-5	T26193	0.440	11.2	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	04 = 1"	08 = 3/4" - 14 NPT
C16PN-6	T26194	0.480	12.2	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14	05 = 1-1/4"	10 = 3/4" - 14 NPT
C16PN-7	T26195	0.480	12.2	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
C16PN-8	T26196	0.520	13.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	06 = 2"	15 = 1" - 11-1/2 NPT
C16PN-10	T26197	0.600	15.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
C16PN-12	T26198	0.620	15.7	424UB-03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
C16PN-16	T26199	0.680	17.3	424UB-03/ 04	494AB-55	494NE-10/ 14	09 = 3 -1/2"	27 = 1-1/2" - 11-1/2 NPT
C16PN-20	T26200	0.750	19.1	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20		32 = 2" - 11-1/2 NPT
C16PN-24	T26201	0.810	20.6	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20		38 = 2-1/2" - 8 NPT
C16PN-30	T26202	0.930	23.6	424UB-04	494AB-56	494NE-15/ 20		44 = 3" - 8 NPT
C16PN-37	T26203	1.000	25.4	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27		45 = 3" - 8 NPT
C16PN-44	T26204	1.120	28.4	424UB-05/ 15	494AB-57	494NE-21/ 27		
C16PN-60	T26205	1.230	31.2	424UB-05/ 15/ 06	494AB-57/ 59	494NE-21/ 27/ 32		
C16PN-91	T26206	1.420	36.1	424UB-06	494AB-59	494NE-32		