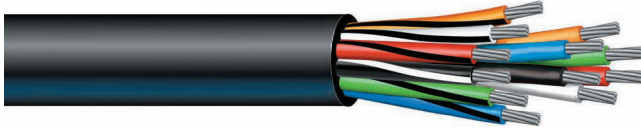




BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **unarmored**

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 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) 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

Prysmian
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
C12PN-2	026224	2	0.030	0.76	0.060	1.5	0.430	10.9	110	165
C12PN-3	026225	3	0.030	0.76	0.060	1.5	0.450	11.4	140	210
C12PN-4	026226	4	0.030	0.76	0.060	1.5	0.490	12.4	175	260
C12PN-5	026227	5	0.030	0.76	0.060	1.5	0.540	13.7	210	315
C12PN-6	026228	6	0.030	0.76	0.060	1.5	0.580	14.7	250	370
C12PN-7	026229	7	0.030	0.76	0.060	1.5	0.580	14.7	275	410
C12PN-8	026230	8	0.030	0.76	0.060	1.5	0.620	15.7	320	475
C12PN-10	026231	10	0.030	0.76	0.060	1.5	0.740	18.8	390	580
C12PN-12	026232	12	0.030	0.76	0.060	1.5	0.760	19.3	445	660
C12PN-16	026233	16	0.030	0.76	0.080	2.0	0.890	22.6	615	915
C12PN-20	026234	20	0.030	0.76	0.080	2.0	0.970	24.6	755	1,125
C12PN-24	026235	24	0.030	0.76	0.080	2.0	1.080	27.4	890	1,325
C12PN-30	026236	30	0.030	0.76	0.080	2.0	1.150	29.2	1,070	1,590
C12PN-37	026237	37	0.030	0.76	0.080	2.0	1.240	31.5	1,295	1,925
C12PN-44	026238	44	0.030	0.76	0.080	2.0	1.400	35.6	1,540	2,290
C12PN-60	026239	60	0.030	0.76	0.080	2.0	1.550	39.4	2,035	3,030
C12PN-91	026240	91	0.030	0.76	0.110	2.8	1.920	48.8	3,130	4,660

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
C10PN-2	026241	2	0.030	0.76	0.060	1.5	0.490	12.4	150	225
C10PN-3	026242	3	0.030	0.76	0.060	1.5	0.510	13.0	200	300
C10PN-4	026243	4	0.030	0.76	0.060	1.5	0.560	14.2	250	370
C10PN-5	026244	5	0.030	0.76	0.060	1.5	0.620	15.7	300	445
C10PN-6	026245	6	0.030	0.76	0.060	1.5	0.680	17.3	350	520
C10PN-7	026246	7	0.030	0.76	0.060	1.5	0.680	17.3	390	580
C10PN-8	026247	8	0.030	0.76	0.060	1.5	0.730	18.5	445	660
C10PN-10	026248	10	0.030	0.76	0.080	2.0	0.900	22.9	600	895

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	33
10	10,908	5.53	37	41	44	44

*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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Type Designation	Draka Number	Cable Diameter (nominal)		GLAND SELECTION			GLAND REFERENCE CHART	
		in	mm	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
C12PN-2	026224	0.430	10.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
C12PN-3	026225	0.450	11.4	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	02 = 1/2"	04 = 1/2" - 14 NPT
C12PN-4	026226	0.490	12.4	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14	03 = 3/4"	05 = 1/2" - 14 NPT
C12PN-5	026227	0.540	13.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	04 = 1"	08 = 3/4" - 14 NPT
C12PN-6	026228	0.580	14.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	05 = 1-1/4"	10 = 3/4" - 14 NPT
C12PN-7	026229	0.580	14.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
C12PN-8	026230	0.620	15.7	424UB-03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	06 = 2"	15 = 1" - 11-1/2 NPT
C12PN-10	026231	0.740	18.8	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	07 = 2-1/2"	20 = 11/4" - 11-1/2 NPT
C12PN-12	026232	0.760	19.3	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	08 = 3"	21 = 11/4" - 11-1/2 NPT
C12PN-16	026233	0.890	22.6	424UB-04	494AB-56	494NE-15/ 20	09 = 3-1/2"	27 = 11/2" - 11-1/2 NPT
C12PN-20	026234	0.970	24.6	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27		32 = 2" - 11-1/2 NPT
C12PN-24	026235	1.080	27.4	424UB-05/ 15	494AB-57	494NE-21/ 27		38 = 2 1/2" - 8 NPT
C12PN-30	026236	1.150	29.2	424UB-05 /15/ 06	494AB-57	494NE-21/ 27		44 = 3" - 8 NPT
C12PN-37	026237	1.240	31.5	424UB-05/ 15/ 06	494AB-57/ 59	494NE-21/ 27/ 32		45 = 3" - 8 NPT
C12PN-44	026238	1.400	35.6	424UB-06	494AB-59	494NE-32		
C12PN-60	026239	1.550	39.4	424UB-06	494AB-59	494NE-32		
C12PN-91	026240	1.920	48.8	424UB-07	494AB-61	494NE-38		

10 AWG • 5.53 mm²

Type Designation	Draka Number	Cable Diameter (nominal)		GLAND SELECTION		
		in	mm	Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored (metric)	Non-Explosion Proof: Unarmored (NPT)
C10PN-2	026241	0.490	12.4	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14
C10PN-3	026242	0.510	13.0	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14
C10PN-4	026243	0.560	14.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14
C10PN-5	026244	0.620	15.7	424UB-03	494AB-53/ 55	494NE-05/ 08/ 10/ 14
C10PN-6	026245	0.680	17.3	424UB-03/ 04	494AB-55	494NE-10/ 14
C10PN-7	026246	0.680	17.3	424UB-03/ 04	494AB-55	494NE-10/ 14
C10PN-8	026247	0.730	18.5	424UB-03/ 04	494AB-55	494NE-10/ 14
C10PN-10	026248	0.900	22.9	424UB-04	494AB-56	494NE-15/ 20