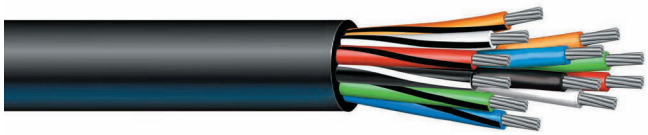
Draka

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

Multi-conductor / **unarmored**

TYPE P CONTROL CABLE 600V or 0.6/1kV **18 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
- Unarmored cables suitable for use in Class I Division 2 and Zone 2 hazardous locations
- Meets IEEE standards for 600V and performance requirements of IEC standards for 0.6/1 kV
- 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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18 AWG / 600V or 0.6/1kV • 0.96 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
C18PN-2	T26173	2	0.030	0.76	0.060	1.5	0.350	8.9	60	90
C18PN-3	T26174	3	0.030	0.76	0.060	1.5	0.360	9.1	75	110
C18PN-4	T26175	4	0.030	0.76	0.060	1.5	0.390	9.9	90	135
C18PN-5	T26176	5	0.030	0.76	0.060	1.5	0.420	10.7	105	155
C18PN-6	T26177	6	0.030	0.76	0.060	1.5	0.460	11.7	120	180
C18PN-7	T26178	7	0.030	0.76	0.060	1.5	0.460	11.7	130	195
C18PN-8	T26179	8	0.030	0.76	0.060	1.5	0.490	12.4	140	210
C18PN-10	T26180	10	0.030	0.76	0.060	1.5	0.570	14.5	180	270
C18PN-12	T26181	12	0.030	0.76	0.060	1.5	0.580	14.7	205	305
C18PN-16	T26182	16	0.030	0.76	0.060	1.5	0.660	16.8	260	385
C18PN-20	T26183	20	0.030	0.76	0.060	1.5	0.710	18.0	320	475
C18PN-24	T26184	24	0.030	0.76	0.060	1.5	0.790	20.1	375	560
C18PN-30	T26185	30	0.030	0.76	0.080	2.0	0.890	22.6	485	720
C18PN-37	T26186	37	0.030	0.76	0.080	2.0	0.940	23.9	570	850
C18PN-44	T26187	44	0.030	0.76	0.080	2.0	1.050	26.7	670	995
C18PN-60	T26188	60	0.030	0.76	0.080	2.0	1.170	29.7	835	1,245
C18PN-91	T26189	91	0.030	0.76	0.080	2.0	1.390	35.3	1,220	1,815

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				
18	1,620	0.82	11	12	13	13

*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: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
		in	mm		(metric)	(NPT)		
C18PN-2	T26173	0.350	8.9	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
C18PN-3	T26174	0.360	9.1	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	02 = 1/2"	04 = 1/2" - 14 NPT
C18PN-4	T26175	0.390	9.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	03 = 3/4"	05 = 1/2" - 14 NPT
C18PN-5	T26176	0.420	10.7	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	04 = 1"	08 = 3/4" - 14 NPT
C18PN-6	T26177	0.460	11.7	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14	05 = 1-1/4"	10 = 3/4" - 14 NPT
C18PN-7	T26178	0.460	11.7	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
C18PN-8	T26179	0.490	12.4	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14	06 = 2"	15 = 1" - 11-1/2 NPT
C18PN-10	T26180	0.570	14.5	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
C18PN-12	T26181	0.580	14.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	08 = 3"	21 = 1-1/4" - 11-/2 NPT
C18PN-16	T26182	0.660	16.8	424UB-03	494AB-55	494NE-10/ 14	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
C18PN-20	T26183	0.710	18.0	424UB-03/ 04	494AB-55	494NE-10/ 14		32 = 2" - 11-1/2 NPT
C18PN-24	T26184	0.790	20.1	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20		38 = 2-1/2" - 8 NPT
C18PN-30	T26185	0.890	22.6	424UB-04	494AB-56	494NE-15/ 20		44 = 3" - 8 NPT
C18PN-37	T26186	0.940	23.9	424UB-04	494AB-56	494NE-15/ 20		45 = 3" - 8 NPT
C18PN-44	T26187	1.050	26.7	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27		
C18PN-60	T26188	1.170	29.7	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27		
C18PN-91	T26189	1.390	35.3	424UB-06	494AB-59	494NE-32		

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