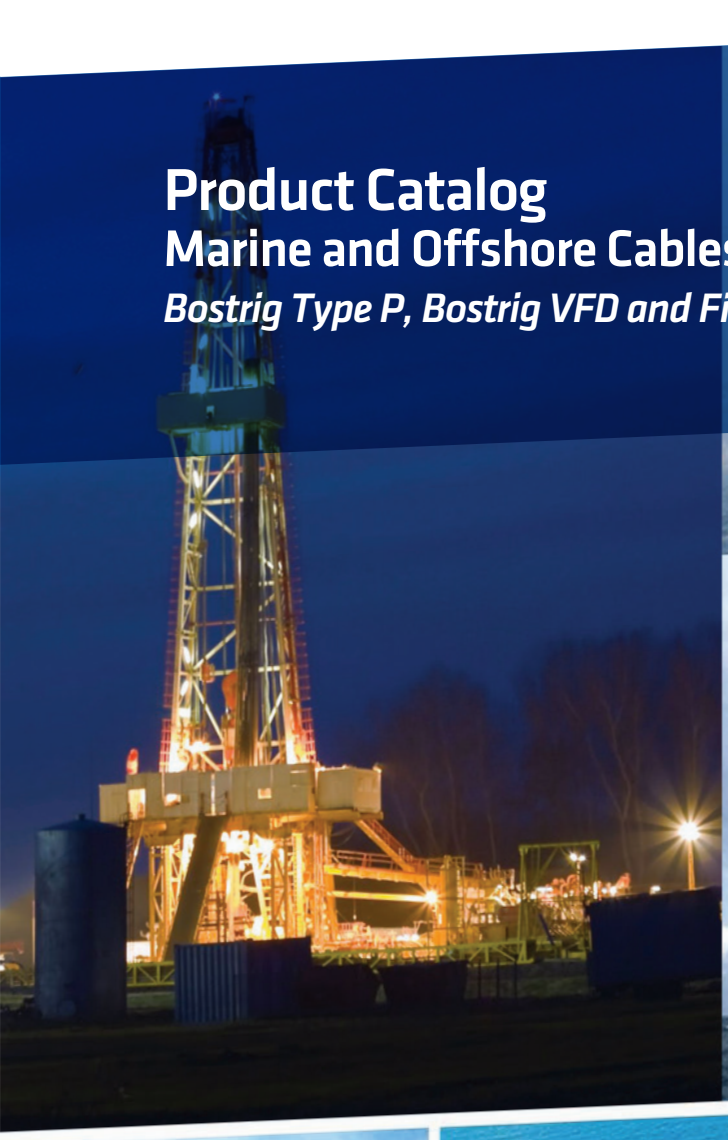
Draka

Product Catalog
Marine and Offshore Cables
Bostrig Type P, Bostrig VFD and Fiber Optic Marine Rated Cables



A brand of the
Prysmian Group

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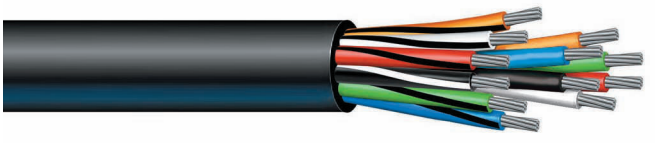
This catalog represents only a partial selection of Draka Marine, Oil & Gas International wire and cable products, based on criteria submitted when requesting the information. For a complete list of Draka Marine, Oil & Gas International products, including specialty conversion and termination items, ***website*** : ***na.prysmiangroup.com/oil-gas***

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.

Prysmian Group
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website: na.prysmiangroup.com/oil-gas

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**

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	mm²				
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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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**

A brand of the Prysmian Group

12 AWG • 3.08 mm²

				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)		
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 = 1 1/4" - 11-1/2 NPT
C12PN-12	026232	0.760	19.3	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	08 = 3"	21 = 1 1/4" - 11-1/2 NPT
C12PN-16	026233	0.890	22.6	424UB-04	494AB-56	494NE-15/ 20	09 = 3-1/2"	27 = 1 1/2" - 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

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored
		in	mm		(metric)	(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

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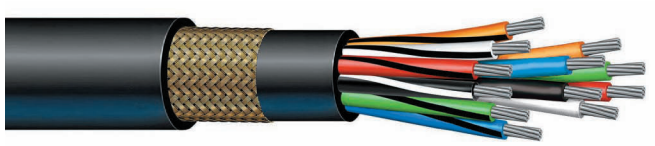
Multi-conductor / **armored and sheathed**
TYPE P CONTROL CABLE 600V or 0.6/1kV **12 & 10 AWG**



Applications

Bostrig™ Type P Marine and Offshore Cable is primarily designed for power, control, signal, and instrumentation applications for marine vessels, offshore and land drilling rigs, 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) 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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Multi-conductor / **armored and sheathed**

TYPE P CONTROL CABLE 600V or 0.6/1kV **12 & 10 AWG**

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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
C12PNBS-2	T26300	2	0.030	0.76	0.060	1.5	0.610	15.5	260	385
C12PNBS-3	T26301	3	0.030	0.76	0.060	1.5	0.640	16.3	295	440
C12PNBS-4	T26302	4	0.030	0.76	0.060	1.5	0.680	17.3	340	505
C12PNBS-5	T26303	5	0.030	0.76	0.060	1.5	0.710	18.0	370	550
C12PNBS-6	T26304	6	0.030	0.76	0.060	1.5	0.770	19.6	445	660
C12PNBS-7	T26305	7	0.030	0.76	0.060	1.5	0.770	19.6	460	685
C12PNBS-8	T26306	8	0.030	0.76	0.060	1.5	0.800	20.3	485	720
C12PNBS-10	T26307	10	0.030	0.76	0.080	2.0	0.960	24.4	675	1,005
C12PNBS-12	T26308	12	0.030	0.76	0.080	2.0	0.970	24.6	720	1,070
C12PNBS-16	T26309	16	0.030	0.76	0.080	2.0	1.110	28.2	955	1,420
C12PNBS-20	T26310	20	0.030	0.76	0.080	2.0	1.190	30.2	1,135	1,690
C12PNBS-24	T26311	24	0.030	0.76	0.080	2.0	1.310	33.3	1,310	1,950
C12PNBS-30	T26312	30	0.030	0.76	0.080	2.0	1.330	33.8	1,495	2,225
C12PNBS-37	T26313	37	0.030	0.76	0.080	2.0	1.460	37.1	1,765	2,625
C12PNBS-44	T26314	44	0.030	0.76	0.080	2.0	1.620	41.1	2,100	3,125
C12PNBS-60	T26315	60	0.030	0.76	0.110	2.8	1.830	46.5	2,770	4,120
C12PNBS-91	T26316	91	0.030	0.76	0.110	2.8	2.200	55.9	4,045	6,020

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
C10PNBS-2	T26317	2	0.030	0.76	0.060	1.5	0.680	17.3	320	475
C10PNBS-3	T26318	3	0.030	0.76	0.060	1.5	0.700	17.8	375	560
C10PNBS-4	T26319	4	0.030	0.76	0.060	1.5	0.750	19.1	440	655
C10PNBS-5	T26320	5	0.030	0.76	0.060	1.5	0.800	20.3	510	760
C10PNBS-6	T26321	6	0.030	0.76	0.080	2.0	0.900	22.9	600	895
C10PNBS-7	T26322	7	0.030	0.76	0.080	2.0	0.900	22.9	635	945
C10PNBS-8	T26323	8	0.030	0.76	0.080	2.0	0.950	24.1	710	1,055
C10PNBS-10	T26324	10	0.030	0.76	0.080	2.0	1.120	28.4	950	1,415

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				
12	6,503	3.30	26	31	33	37
10	10,908	5.53	37	41	44	49

*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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Multi-conductor / **armored and sheathed**

TYPE P CONTROL CABLE 600V or 0.6/1kV **12 & 10 AWG**

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12 AWG • 3.08 mm²

				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)		
C12PNBS-2	T26300	0.610	15.5	424AN-02/ 10	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
C12PNBS-3	T26301	0.640	16.3	424AN-02/ 10	474SW-53	474NP-05/ 08	02 = 3/4"	04 = 1/2" - 14 NPT
C12PNBS-4	T26302	0.680	17.3	424AN-02/ 03/ 10/ 12	474SW-53	474NP-05/ 08	03 = 1"	07 = 3/4" - 14 NPT
C12PNBS-5	T26303	0.710	18.0	424AN-02/ 03/ 10/ 12	474SW-53	474NP-05/ 08	04 = 1-1/4"	05 = 1/2" - 14 NPT
C12PNBS-6	T26304	0.770	19.6	424AN-03/ 12	474SW-55	474NP-10/ 14	05 = 1-1/2"	08 = 3/4" - 14 NPT
C12PNBS-7	T26305	0.770	19.6	424AN-03/ 12	474SW-55	474NP-10/ 14	06 = 2"	10 = 3/4" - 14 NPT
C12PNBS-8	T26306	0.800	20.3	424AN-03/ 12	474SW-55	474NP-10/ 14	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
C12PNBS-10	T26307	0.960	24.4	424AN-04/ 15	474SW-55	474NP-10/ 14	08 = 3"	15 = 1" - 11-1/2 NPT
C12PNBS-12	T26308	0.970	24.6	424AN-04/ 15	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
C12PNBS-16	T26309	1.110	28.2	424AN-04/ 15	474SW-56	474NP-15/ 20	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
C12PNBS-20	T26310	1.190	30.2	424AN-04/ 05/ 15	474SW-56	474NP-15/ 20	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
C12PNBS-24	T26311	1.310	33.3	424AN-05	474SW-57	474NP-21/ 27	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
C12PNBS-30	T26312	1.330	33.8	424AN-05	474SW-57	474NP-21/ 27		31 = 2" - 11-1/2 NPT
C12PNBS-37	T26313	1.460	37.1	424AN-05/ 06	474SW-57	474NP-21/ 27		32 = 2" - 11-1/2 NPT
C12PNBS-44	T26314	1.620	41.1	424AN-06	474SW-58	474NP-28/ 31		33 = 2" - 11-1/2 NPT
C12PNBS-60	T26315	1.830	46.5	424AN-06	474SW-59	474NP-32		38 = 2-1/2" - 8 NPT
C12PNBS-91	T26316	2.200	55.9	424AN-07	474SW-60/ 61	474NP-33/ 38		39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

10 AWG • 5.53 mm²

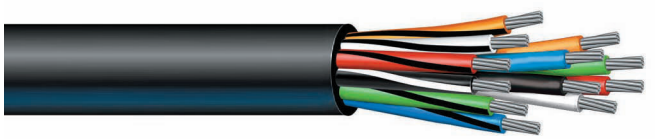
				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored
		in	mm		(metric)	(NPT)
C10PNBS-2	T26317	0.680	17.3	424AN-03/ 12	474SW-53	474NP-05/ 08
C10PNBS-3	T26318	0.700	17.8	424AN-03/ 12	474SW-53	474NP-05/ 08
C10PNBS-4	T26319	0.750	19.1	424AN-03/ 12	474SW-55	474NP-10/ 14
C10PNBS-5	T26320	0.800	20.3	424AN-03/ 12	474SW-55	474NP-10/ 14
C10PNBS-6	T26321	0.900	22.9	424AN-03/ 12	474SW-55	474NP-10/ 14
C10PNBS-7	T26322	0.900	22.9	424AN-03/ 12	474SW-55	474NP-10/ 14
C10PNBS-8	T26323	0.950	24.1	424AN-04/ 15	474SW-55	474NP-10/ 14
C10PNBS-10	T26324	1.120	28.4	424AN-04/ 15	474SW-56	474NP-15/ 20

Draka

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

Multi-conductor / **unarmored**

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

Multi-conductor / unarmored

TYPE P CONTROL CABLE 600V or 0.6/1kV **14 AWG**

A brand of the Prysmian Group

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
C14PN-2	T26207	2	0.030	0.76	0.060	1.5	0.390	9.9	85	125
C14PN-3	T26208	3	0.030	0.76	0.060	1.5	0.410	10.4	105	155
C14PN-4	T26209	4	0.030	0.76	0.060	1.5	0.450	11.4	130	195
C14PN-5	T26210	5	0.030	0.76	0.060	1.5	0.490	12.4	160	240
C14PN-6	T26211	6	0.030	0.76	0.060	1.5	0.530	13.5	185	275
C14PN-7	T26212	7	0.030	0.76	0.060	1.5	0.530	13.5	200	300
C14PN-8	T26213	8	0.030	0.76	0.060	1.5	0.570	14.5	230	340
C14PN-10	T26214	10	0.030	0.76	0.060	1.5	0.660	16.8	285	425
C14PN-12	T26215	12	0.030	0.76	0.060	1.5	0.680	17.3	325	485
C14PN-16	T26216	16	0.030	0.76	0.060	1.5	0.750	19.1	415	620
C14PN-20	T26217	20	0.030	0.76	0.080	2.0	0.880	22.4	550	820
C14PN-24	T26218	24	0.030	0.76	0.080	2.0	0.960	24.4	645	960
C14PN-30	T26219	30	0.030	0.76	0.080	2.0	1.020	25.9	775	1,155
C14PN-37	T26220	37	0.030	0.76	0.080	2.0	1.100	27.9	930	1,385
C14PN-44	T26221	44	0.030	0.76	0.080	2.0	1.240	31.5	1,105	1,645
C14PN-60	T26222	60	0.030	0.76	0.080	2.0	1.370	34.8	1,455	2,165
C14PN-91	T26223	91	0.030	0.76	0.080	2.0	1.650	41.9	2,145	3,190

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	2.8	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

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

Multi-conductor / unarmored

TYPE P CONTROL CABLE 600V or 0.6/1kV **14 AWG**

A brand of the Prysmian Group

14 AWG / 600V or 0.6/1kV • 1.94 mm²

				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)		
C14PN-2	T26207	0.390	9.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
C14PN-3	T26208	0.410	10.4	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	02 = 1/2"	04 = 1/2" - 14 NPT
C14PN-4	T26209	0.450	11.4	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	03 = 3/4"	05 = 1/2" - 14 NPT
C14PN-5	T26210	0.490	12.4	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14	04 = 1"	08 = 3/4" - 14 NPT
C14PN-6	T26211	0.530	13.5	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	05 = 1-1/4"	10 = 3/4" - 14 NPT
C14PN-7	T26212	0.530	13.5	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
C14PN-8	T26213	0.570	14.5	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	06 = 2"	15 = 1" - 11-1/2 NPT
C14PN-10	T26214	0.660	16.8	424UB-03	494AB-55	494NE-10/ 14	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
C14PN-12	T26215	0.680	17.3	424UB-03/ 04	494AB-55	494NE-10/ 14	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
C14PN-16	T26216	0.750	19.1	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
C14PN-20	T26217	0.880	22.4	424UB-04	494AB-56	494NE-15/ 20		32 = 2" - 11-1/2 NPT
C14PN-24	T26218	0.960	24.4	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27		38 = 2-1/2" - 8 NPT
C14PN-30	T26219	1.020	25.9	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27		44 = 3" - 8 NPT
C14PN-37	T26220	1.100	27.9	424UB-05/ 15	494AB-57	494NE-21/ 27		45 = 3" - 8 NPT
C14PN-44	T26221	1.240	31.5	424UB-05/ 15/ 06	494AB-57/ 59	494NE-21/ 27/ 32		
C14PN-60	T26222	1.370	34.8	424UB-06	494AB-59	494NE-32		
C14PN-91	T26223	1.650	41.9	424UB-07	494AB61	494NE-38		

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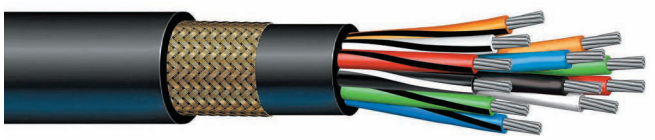
BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

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.

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**

A brand of the Prysmian Group

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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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**

A brand of the Prysmian Group

14 AWG / 600V or 0.6/1kV • 1.94 mm²

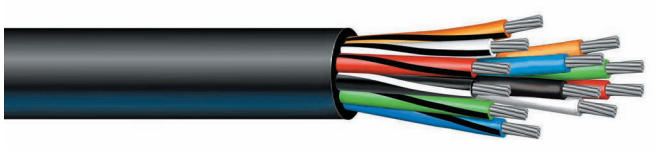
				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored	Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
		in	mm		(metric)	(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

Draka

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

Multi-conductor / unarmored

TYPE P CONTROL CABLE 600V or 0.6/1kV **16 AWG**

A brand of the Prysmian 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	mm²				
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

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

Multi-conductor / unarmored

TYPE P CONTROL CABLE 600V or 0.6/1kV **16 AWG**

A brand of the Prysmian Group

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	Non-Explosion Proof: Unarmored	Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
		in	mm		(metric)	(NPT)		
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		

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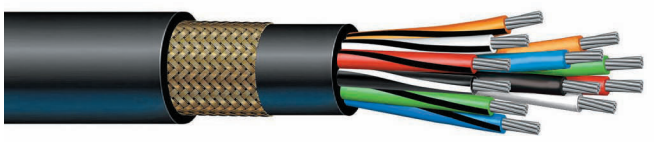
BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

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.

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**

A brand of the Prysmian 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
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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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**

A brand of the Prysmian Group

16 AWG / 600V or 0.6/1kV • 1.23 mm²

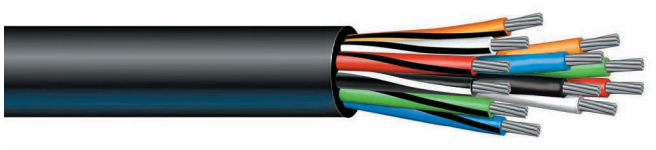
				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored	Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
		in	mm		(metric)	(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

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

Multi-conductor / unarmored

TYPE P CONTROL CABLE 600V or 0.6/1kV **18 AWG**

A brand of the Prysmian Group

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.

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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

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

Multi-conductor / unarmored

TYPE P CONTROL CABLE 600V or 0.6/1kV **18 AWG**

A brand of the Prysmian Group

18 AWG / 600V or 0.6/1kV • 0.96 mm²

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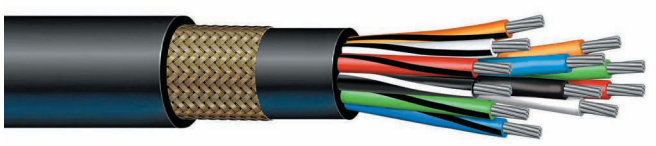
BOSTRIG™ TYPE P CONTROL CABLE 600V OR 0.6/1kV

Multi-conductor / **armored and sheathed**
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 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, mud, 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.

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

Multi-conductor / **armored and sheathed**
TYPE P CONTROL CABLE 600V or 0.6/1kV **18 AWG**

A brand of the Prysmian Group

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
C18PNBS-2	T26249	2	0.030	0.76	0.060	1.5	0.530	13.5	180	270
C18PNBS-3	T26250	3	0.030	0.76	0.060	1.5	0.540	13.7	200	300
C18PNBS-4	T26251	4	0.030	0.76	0.060	1.5	0.570	14.5	225	335
C18PNBS-5	T26252	5	0.030	0.76	0.060	1.5	0.610	15.5	250	370
C18PNBS-6	T26253	6	0.030	0.76	0.060	1.5	0.640	16.3	275	410
C18PNBS-7	T26254	7	0.030	0.76	0.060	1.5	0.640	16.3	285	425
C18PNBS-8	T26255	8	0.030	0.76	0.060	1.5	0.720	18.3	340	505
C18PNBS-10	T26256	10	0.030	0.76	0.060	1.5	0.750	19.1	365	545
C18PNBS-12	T26257	12	0.030	0.76	0.060	1.5	0.770	19.6	405	605
C18PNBS-16	T26258	16	0.030	0.76	0.080	2.0	0.890	22.6	500	745
C18PNBS-20	T26259	20	0.030	0.76	0.080	2.0	0.940	23.9	580	865
C18PNBS-24	T26260	24	0.030	0.76	0.080	2.0	1.010	25.7	680	1,010
C18PNBS-30	T26261	30	0.030	0.76	0.080	2.0	1.100	27.9	790	1,175
C18PNBS-37	T26262	37	0.030	0.76	0.080	2.0	1.160	29.5	935	1,390
C18PNBS-44	T26263	44	0.030	0.76	0.080	2.0	1.280	32.5	1,035	1,540
C18PNBS-60	T26264	60	0.030	0.76	0.080	2.0	1.390	35.3	1,355	2,015
C18PNBS-91	T26265	91	0.030	0.76	0.080	2.0	1.590	40.4	1,860	2,770

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

Multi-conductor / **armored and sheathed**

TYPE P CONTROL CABLE 600V or 0.6/1kV **18 AWG**

18 AWG / 600V or 0.6/1kV • 0.96 mm²

				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)		
C18PNBS-2	T26249	0.530	13.5	424AN-02/ 10	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
C18PNBS-3	T26250	0.540	13.7	424AN-02/ 10	474SW-52	474NP-04/ 07	02 = 3/4"	04 = 1/2" - 14 NPT
C18PNBS-4	T26251	0.570	14.5	424AN-02/ 10	474SW-53	474NP-05/ 08	03 = 1"	07 = 3/4" - 14 NPT
C18PNBS-5	T26252	0.610	15.5	424AN-02/ 10	474SW-53	474NP-05/ 08	04 = 1-1/4"	05 = 1/2" - 14 NPT
C18PNBS-6	T26253	0.640	16.3	424AN-02/ 10	474SW-53	474NP-05/ 08	05 = 1-1/2"	08 = 3/4" - 14 NPT
C18PNBS-7	T26254	0.640	16.3	424AN-02/ 10	474SW-53	474NP-05/ 08	06 = 2"	10 = 3/4" - 14 NPT
C18PNBS-8	T26255	0.720	18.3	424AN-03/ 12	474SW-53	474NP-05/ 08	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
C18PNBS-10	T26256	0.750	19.1	424AN-03/ 12	474SW-55	474NP-10/ 14	08 = 3"	15 = 1" - 11-1/2 NPT
C18PNBS-12	T26257	0.770	19.6	424AN-03/ 12	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
C18PNBS-16	T26258	0.890	22.6	424AN-04/ 15	474SW-55	474NP-10/ 14	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
C18PNBS-20	T26259	0.940	23.9	424AN-04/ 15	474SW-55	474NP-10/ 14	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
C18PNBS-24	T26260	1.010	25.7	424AN-04/ 15	474SW-56	474NP-15/ 20	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
C18PNBS-30	T26261	1.100	27.9	424AN-04/ 15	474SW-56	474NP-15/ 20		31 = 2" - 11-1/2 NPT
C18PNBS-37	T26262	1.160	29.5	424AN-05	474SW-56	474NP-15/ 20		32 = 2" - 11-1/2 NPT
C18PNBS-44	T26263	1.280	32.5	424AN-05	474SW-57	474NP-21/ 27		33 = 2" - 11-1/2 NPT
C18PNBS-60	T26264	1.390	35.3	424AN-05	474SW-57	474NP-21/ 27		38 = 2-1/2" - 8 NPT
C18PNBS-91	T26265	1.590	40.4	424AN-06	474SW-58	474NP-28/ 31		39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

Draka

BOSTRIG™ TYPE P-MR POWER CABLE 2000V

Single conductor / **armored and sheathed and unarmored ester-based mud resistant**
TYPE P-MR POWER CABLE 2000V or **4/0 AWG to 1111 MCM**

Applications

Bostrig Type P Mud Resistant Cable is primarily designed for power, control, signal, and instrumentation for marine vessels, and offshore production facilities. Instead of Polychloroprene (Neoprene), they are sheathed in our proprietary elastomeric formulation which is not only mud-resistant but is qualified as a Low-Smoke Zero-Halogen (LSZH) cable in accordance with IEEE 45, IEEE 1580.

This mud-resistant jacket is designed for use in areas where ester-based drilling muds and fluids are present. These cables are listed by ETL in accordance with IEEE 45 and type approved by DNV as resistant to NOVA Plus., Petrofree LE, and Petrofree drilling muds and fluids. The cable was tested in accordance with NEK 606 for 56 days at 70°C in each of the ester-based muds mentioned above.

This product can also be manufactured in an unarmored version.

Multiconductor power, control, and instrumentation cables are also available.

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 tinned copper per ASTM B 33, stranded as shown in table on opposite page. A mylar separator is used over the conductor.

INSULATION: Bostrig Type P chemically cross-linked polyolefin (XLPO), meeting IEEE 1580.

ARMOR: Braided bronze in accordance with IEEE 1580.

SHEATH: Flame-Retardant XLPO applied over the armor, meeting requirements of Type L in IEEE 1580. Thickness as shown in tables on opposite page.

Features/Ratings

- Special ester-based mud resistant jacket also provides 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 2000V and performance requirements of IEC standards for 0.6/1kV
- This product may be manufactured in an unarmored or armored and sheathed version
- Armored and sheathed cables suitable for use in Class 1 Division 1 and Zone 1 hazardous locations offshore
- Unarmored cables suitable for use in Class I, Division 2 zone 2 hazardous locations offshore

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BOSTRIG™ TYPE P-MR POWER CABLE 2000V

Single conductor / **armored and sheathed and unarmored ester-based mud resistant**
TYPE P-MR POWER CABLE 2000V or **4/0 AWG to 1111 MCM**

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Armored and sheathed

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SPBM2KV(HD)-4/0	026034M	4/0	112.6	0.080	2.0	1.040	26.4	0.07	0.2	0.11	0.4	146	479	335	351	376	495	1,185	1,765
SPBM2KV(HD)-262	026035M	262	133.1	0.080	2.0	1.100	27.9	0.06	0.2	0.10	0.3	162	531	382	407	436	559	1,355	2,015
SPBM2KV(HD)-313	026036M	313	158.7	0.080	2.0	1.170	29.7	0.06	0.2	0.10	0.3	175	574	426	455	487	617	1,570	2,335
SPBM2KV(HD)-373	026037M	373	189.2	0.080	2.0	1.240	31.5	0.05	0.2	0.10	0.3	189	620	476	516	553	692	1,790	2,665
SPBM2KV(HD)-444	026038M	444	225.2	0.080	2.0	1.330	33.8	0.05	0.2	0.10	0.3	205	672	531	588	630	772	2,130	3,170
SPBM2KV(HD)-535	026039M	535	271.3	0.080	2.0	1.420	36.1	0.04	0.01	0.10	0.3	200	656	596	630	675	871	2,470	3,675
SPBM2KV(HD)-646	026040M	646	327.5	0.080	2.0	1.520	38.6	0.04	0.01	0.10	0.3	216	708	670	731	783	979	3,050	4,540
SPBM2KV(HD)-777	026041M	777	394.2	0.080	2.0	1.610	40.9	0.04	0.01	0.10	0.3	236	774	754	822	881	1,101	3,570	5,315
SPBM2KV(HD)-1111	026042M	1111	563.0	0.110	2.8	1.960	49.8	0.04	0.01	0.10	0.3	257	843	942	1,025	1,098	1,374	4,770	7,100

Unarmored

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SPM2KV(HD)-4/0	026015M	4/0	112.6	0.080	2.0	0.980	24.9	0.07	0.2	0.11	0.4	146	479	335	351	376	495	1,060	1,575
SPM2KV(HD)-262	026016M	262	133.1	0.080	2.0	1.050	26.7	0.06	0.2	0.10	0.3	162	531	382	407	436	559	1,215	1,810
SPM2KV(HD)-313	026017M	313	158.7	0.080	2.0	1.130	28.7	0.06	0.2	0.10	0.3	175	574	426	455	487	617	1,420	2,115
SPM2KV(HD)-373	026018M	373	189.2	0.080	2.0	1.190	30.2	0.05	0.2	0.10	0.3	189	620	476	516	553	692	1,635	2,435
SPM2KV(HD)-444	026019M	444	225.2	0.080	2.0	1.270	32.3	0.05	0.2	0.10	0.3	205	672	531	588	630	772	1,935	2,880
SPM2KV(HD)-535	026020M	535	271.3	0.080	2.0	1.360	34.5	0.04	0.1	0.10	0.3	200	656	596	630	675	871	2,260	3,365
SPM2KV(HD)-646	026021M	646	327.5	0.080	2.0	1.530	38.9	0.04	0.1	0.10	0.3	216	708	670	731	783	979	2,790	4,150
SPM2KV(HD)-777	026022M	777	394.2	0.080	2.0	1.650	41.9	0.04	0.1	0.10	0.3	236	774	754	822	881	1,101	3,290	4,895
SPM2KV(HD)-1111	026023M	1111	563.0	0.110	2.8	1.930	49.0	0.04	0.1	0.10	0.3	257	843	942	1,025	1,098	1,374	4,495	6,690

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 - 11 0°C values based on API 14F.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

BOSTRIG™ TYPE P-MR POWER CABLE 2000V

Single conductor / **armored and sheathed and unarmored ester-based mud resistant**
TYPE P-MR POWER CABLE 2000V or **4/0 AWG to 1111 MCM**

Armored and sheathed

				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)		
SPBM2KV(HD)-4/0	026034M	1.040	26.4	424AN-03/ 04/ 12/ 15	474SW-56	474NP-15/ 20	01 = 1/2"	03 = 1/2" - 14 NPT
SPBM2KV(HD)-262	026035M	1.100	27.9	424AN-04/ 15	474SW-56	474NP-15/ 20	02 = 3/4"	04 = 1/2" - 14 NPT
SPBM2KV(HD)-313	026036M	1.170	29.7	424AN-04/ 15	474SW-56	474NP-15/ 20	03 = 1"	07 = 3/4" - 14 NPT
SPBM2KV(HD)-373	026037M	1.240	31.5	424AN-05	474SW-56	474NP-15/ 20	04 = 1-1/4"	05 = 1/2" - 14 NPT
SPBM2KV(HD)-444	026038M	1.330	33.8	424AN-05	474SW-57	474NP-21/ 27	05 = 1-1/2"	08 = 3/4" - 14 NPT
SPBM2KV(HD)-535	026039M	1.420	36.1	424AN-05/ 06	474SW-57	474NP-21/ 27	06 = 2"	10 = 3/4" - 14 NPT
SPBM2KV(HD)-646	026040M	1.520	38.6	424AN-06	474SW-58	474NP-28/ 31	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
SPBM2KV(HD)-777	026041M	1.610	40.9	424AN-06	474SW-58	474NP-28/ 31	08 = 3"	15 = 1" - 11-1/2 NPT
SPBM2KV(HD)-1111	026042M	1.960	49.8	424AN-06/ 07	474SW-59	474NP-32	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
							10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
							12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
							15 = 1"	28 = 1-1/2" - 11-1/2 NPT
								31 = 2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								33 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

Unarmored

				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unrmored	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)		
SPM2KV(HD)-4/0	026015M	0.980	24.9	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	01 = 1/2"	03 = 1/2" - 14 NPT
SPM2KV(HD)-262	026016M	1.050	26.7	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	02 = 1/2"	04 = 1/2" - 14 NPT
SPM2KV(HD)-313	026017M	1.130	28.7	424UB-05/ 15	494AB-57	494NE-21/ 27	03 = 3/4"	05 = 1/2" - 14 NPT
SPM2KV(HD)-373	026018M	1.190	30.2	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	04 = 1"	08 = 3/4" - 14 NPT
SPM2KV(HD)-444	026019M	1.270	32.3	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32	05 = 1-1/4"	10 = 3/4" - 14 NPT
SPM2KV(HD)-535	026020M	1.360	34.5	424UB-06	494AB-59	494NE-32	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
SPM2KV(HD)-646	026021M	1.530	38.9	424UB-06	494AB-59	494NE-32	06 = 2"	15 = 1" - 11-1/2 NPT
SPM2KV(HD)-777	026022M	1.650	41.9	424UB-06/ 07	494AB-61	494NE-38	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
SPM2KV(HD)-1111	026023M	1.930	49.0	424UB-07	494AB-61	494NE-38	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
							09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								44 = 3" - 8 NPT
								45 = 3" - 8 NPT

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website: na.prysmiangroup.com/oil-gas

BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV & 2000V

Single conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV & 2000V, 18 AWG to 1111 MCM**

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, mud, 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 Class 1, Division 2 and Zone 2 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

CSA 22.2 No. 230 as Type TC (#4/0 AWG and larger)

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. Thickness as shown in tables on opposite page.

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BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV & 2000V

Single conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV & 2000V, 18 AWG to 1111 MCM**

A brand of the Prysmian Group

600V or 600/1000V

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calculated Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SP-18	026000	18	0.96	0.030	0.76	0.110	2.8	6.4	21.0	0.18	0.6	58	190	16	16	17	24	10	15
SP-16	026001	16	1.23	0.030	0.76	0.120	3.0	4.5	14.8	0.18	0.6	65	213	20	23	25	35	15	20
SP-14	026002	14	1.94	0.030	0.76	0.140	3.6	2.9	9.5	0.16	0.5	77	253	29	37	39	56	20	30
SP-12	026003	12	3.08	0.030	0.76	0.150	3.8	1.9	6.2	0.15	0.5	90	295	38	45	49	67	25	35
SP-10	026004	10	5.58	0.030	0.76	0.180	4.6	1.2	3.9	0.14	0.5	107	351	51	58	61	87	45	65
SP-8	026005	8	7.57	0.045	1.14	0.240	6.1	0.7	2.3	0.14	0.5	95	311	67	72	77	90	70	105
SP-6	026006	6	12.5	0.045	1.14	0.290	7.4	0.5	1.6	0.12	0.4	126	413	90	96	103	126	100	150
SP-5	026007	5	18.6	0.045	1.14	0.340	8.6	0.3	1.6	0.12	0.4	140	459	111	109	117	153	145	215
SP-4	026008	4	21.5	0.045	1.14	0.360	9.1	0.3	1.6	0.12	0.4	153	502	122	128	137	158	170	255
SP-3	026009	3	27.2	0.045	1.14	0.400	10.2	0.2	0.7	0.11	0.4	173	567	142	146	156	195	255	380
SP-2	026010	2	33.7	0.045	1.14	0.420	10.7	0.2	0.7	0.11	0.4	187	613	162	169	181	217	260	385
SP-1	026011	1	46.1	0.055	1.40	0.500	12.7	0.1	0.3	0.11	0.4	178	584	197	194	208	281	350	520
SP-1/0	026012	1/0	56.3	0.055	1.40	0.520	13.2	0.1	0.3	0.11	0.4	190	623	223	227	243	319	420	625
SP-2/0	026013	2/0	67.6	0.055	1.40	0.570	14.5	0.09	0.3	0.10	0.3	212	695	250	262	281	354	475	705
SP-3/0	026014	3/0	92.1	0.055	1.40	0.670	17.0	0.08	0.3	0.10	0.3	245	804	304	300	321	437	680	1,010

2000V

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SP2KV-8	030477	8	7.57	0.055	1.4	0.260	6.6	0.695	2.28	0.108	0.354	82	269	67	72	77	90	75	110
SP2KV-6	030478	6	12.5	0.055	1.4	0.320	8.1	0.442	1.45	0.099	0.324	108	354	90	96	103	126	115	170
SP2KV-5	030479	5	18.6	0.055	1.4	0.350	8.9	0.332	1.09	0.097	0.318	120	393	111	109	117	153	147	220
SP2KV-4	030480	4	21.5	0.055	1.4	0.370	9.4	0.277	0.91	0.095	0.312	131	430	122	128	137	158	170	255
SP2KV-3	030481	3	25.6	0.055	1.4	0.420	10.7	0.221	0.72	0.092	0.302	148	485	142	146	156	195	205	305
SP2KV-2	030482	2	30.7	0.055	1.4	0.430	10.9	0.176	0.58	0.090	0.295	160	525	162	169	181	217	250	370
SP2KV-1	030483	1	46.0	0.065	1.7	0.520	13.2	0.141	0.46	0.091	0.298	158	518	197	194	208	281	340	505
SP2KV-1/0	029732	1/0	56.3	0.065	1.7	0.540	13.7	0.113	0.37	0.089	0.292	168	551	223	227	243	319	430	640
SP2KV-2/0	027055	2/0	66.5	0.065	1.7	0.590	15.0	0.092	0.30	0.088	0.289	184	604	250	262	281	354	520	775
SP2KV-3/0	030484	3/0	92.1	0.065	1.7	0.670	17.0	0.075	0.25	0.086	0.282	216	708	304	300	321	437	680	1,010
SP2KV(HD)-4/0	026015	4/0	112.6	0.105	2.7	0.820	20.8	0.07	0.2	0.11	0.4	146	479	344	351	376	495	875	1,300
SP2KV(HD)-262	026016	262	133.1	0.105	2.7	0.880	22.4	0.06	0.2	0.10	0.3	162	531	382	407	436	559	1,020	1,520
SP2KV(HD)-313	026017	313	158.7	0.105	2.7	0.940	23.9	0.06	0.2	0.10	0.3	175	574	426	455	487	617	1,215	1,810
SP2KV(HD)-373	026018	373	189.2	0.105	2.7	0.990	25.1	0.05	0.2	0.10	0.3	189	620	476	516	553	692	1,410	2,100
SP2KV(HD)-444	026019	444	225.2	0.105	2.7	1.110	28.2	0.05	0.2	0.10	0.3	205	672	531	588	630	772	17,05	2,535
SP2KV(HD)-535	026020	535	271.3	0.120	3.0	1.140	29.0	0.04	0.1	0.10	0.3	200	656	596	630	675	871	1,975	2,940
SP2KV(HD)-646	026021	646	327.5	0.120	3.0	1.260	32.0	0.04	0.1	0.10	0.3	216	708	670	731	783	979	2,410	3,585
SP2KV(HD)-777	026022	777	394.2	0.120	3.0	1.420	36.1	0.04	0.1	0.10	0.3	236	774	754	822	881	1,101	2,890	4,300
SP2KV(HD)-1111	026023	1111	563.0	0.120	3.0	1.610	40.9	0.04	0.1	0.10	0.3	257	843	942	1,025	1,098	1,374	3,945	5,870

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.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV & 2000V

Single conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV & 2000V, 18 AWG to 1111 MCM**

A brand of the Prysmian Group

600V or 600/1000V

				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)		
SP-18	026000	0.110	2.8	***	***	***	01 = 1/2"	03 = 1/2" - 14 NPT
SP-16	026001	0.120	3.0	***	***	***	02 = 1/2"	04 = 1/2" - 14 NPT
SP-14	026002	0.140	3.6	424UB-01	494AB-51/ 71	494NE-03	03 = 3/4"	05 = 1/2" - 14 NPT
SP-12	026003	0.150	3.8	424UB-01	494AB-51/ 71	494NE-03	04 = 1"	08 = 3/4" - 14 NPT
SP-10	026004	0.180	4.6	424UB-01	494AB-51/ 71	494NE-03	05 = 1-1/4"	10 = 3/4" - 14 NPT
SP-8	026005	0.240	6.1	424UB-01	494AB-51/ 71	494NE-03	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
SP-6	026006	0.290	7.4	424UB-01	494AB-51/ 71	494NE-03	06 = 2"	15 = 1" - 11-1/2 NPT
SP-5	026007	0.340	8.6	424UB-01	494AB-52/ 53	494NE-04/ 05/ 08	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
SP-4	026008	0.360	9.1	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
SP-3	026009	0.400	10.2	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
SP-2	026010	0.420	10.7	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08		32 = 2" - 11-1/2 NPT
SP-1	026011	0.500	12.7	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14		38 = 2-1/2" - 8 NPT
SP-1/0	026012	0.520	13.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14		44 = 3" - 8 NPT
SP-2/0	026013	0.570	14.5	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14		45 = 3" - 8 NPT
SP-3/0	026014	0.670	17.0	424UB-03/ 04	494AB-55	494NE-10/ 14		

2000V

				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)		
SP2KV-8	030477	0.260	6.6	424UB-01	494AB-51/ 71	494NE-03	01 = 1/2"	03 = 1/2" - 14 NPT
SP2KV-6	030478	0.320	8.1	424UB-01	494AB-51/ 71/ 52/ 53	494NE-03/ 04/ 05/ 08	02 = 1/2"	04 = 1/2" - 14 NPT
SP2KV-5	030479	0.350	8.9	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	03 = 3/4"	05 = 1/2" - 14 NPT
SP2KV-4	030480	0.370	9.4	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	04 = 1"	08 = 3/4" - 14 NPT
SP2KV-3	030481	0.420	10.7	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	05 = 1-1/4"	10 = 3/4" - 14 NPT
SP2KV-2	030482	0.430	10.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
SP2KV-1	030483	0.520	13.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	06 = 2"	15 = 1" - 11-1/2 NPT
SP2KV-1/0	029732	0.540	13.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
SP2KV-2/0	027055	0.590	15.0	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
SP2KV-3/0	030484	0.670	17.0	424UB-03/ 04	494AB-55	494NE-10/ 14	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
SP2KV(HD)-4/0	026015	0.820	20.8	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20		32 = 2" - 11-1/2 NPT
SP2KV(HD)-262	026016	0.880	22.4	424UB-04	494AB-56	494NE-15/ 20		38 = 2-1/2" - 8 NPT
SP2KV(HD)-313	026017	0.940	23.9	424UB-04	494AB-56	494NE-15/ 20		44 = 3" - 8 NPT
SP2KV(HD)-373	026018	0.990	25.1	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27		45 = 3" - 8 NPT
SP2KV(HD)-444	026019	1.110	28.2	424UB-05/ 15	494AB-57	494NE-21/ 27		
SP2KV(HD)-535	026020	1.140	29.0	424UB-05/ 15	494AB-57	494NE-21/ 27		
SP2KV(HD)-646	026021	1.260	32.0	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32		
SP2KV(HD)-777	026022	1.420	36.1	424UB-06	494AB-59	494NE-32		
SP2KV(HD)-1111	026023	1.610	40.9	424UB-06/ 07	494AB-61	494NE-38		

Draka

BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV & 2000V

Single conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV & 2000V, 8 AWG to 1111 MCM**

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
- 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. Thickness as shown in tables on opposite page.

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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Single conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV & 2000V, 8 AWG to 1111 MCM**

A brand of the Prysmian Group

600V

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SPBS-8	T26024	8	7.57	0.060	1.5	0.420	10.7	0.7	2.3	0.14	0.5	95	311	67	72	77	90	160	240
SPBS-6	T26025	6	12.5	0.060	1.5	0.480	12.2	0.5	1.6	0.12	0.4	126	413	90	96	103	126	205	305
SPBS-5	T26026	5	18.6	0.060	1.5	0.530	13.5	0.3	1.6	0.12	0.4	140	459	111	109	117	153	260	385
SPBS-4	T26027	4	21.5	0.060	1.5	0.540	13.7	0.3	1.6	0.12	0.4	153	502	122	128	137	158	300	445
SPBS-3	T26028	3	27.2	0.060	1.5	0.560	14.2	0.2	0.7	0.11	0.4	173	567	142	146	156	195	335	500
SPBS-2	T26029	2	33.7	0.060	1.5	0.610	15.5	0.2	0.7	0.11	0.4	187	613	162	169	181	217	405	605
SPBS-1	T26030	1	46.1	0.060	1.5	0.680	17.3	0.1	0.3	0.11	0.4	178	584	197	194	208	281	520	775
SPBS-1/0	T26031	1/0	56.3	0.060	1.5	0.710	18.0	0.1	0.3	0.11	0.4	190	623	223	227	243	319	605	900
SPBS-2/0	T26032	2/0	67.6	0.060	1.5	0.750	19.1	0.09	0.3	0.10	0.3	212	695	250	262	281	354	665	990
SPBS-3/0	T26033	3/0	92.1	0.060	1.5	0.830	21.1	0.08	0.3	0.10	0.3	245	804	304	300	321	437	900	1,340

2000V

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SPBS2KV-8	T36754	8	7.57	0.060	1.5	0.460	11.7	0.696	2.28	0.138	0.453	82	269	67	72	77	90	155	230
SPBS2KV-6	T36755	6	12.5	0.060	1.5	0.520	13.2	0.442	1.45	0.124	0.407	108	354	90	96	103.	126	210	315
SPBS2KV-5	T36756	5	18.6	0.060	1.5	0.550	14.0	0.333	1.09	0.120	0.394	120	393	111	109	117	153	250	370
SPBS2KV-4	T36757	4	21.5	0.060	1.5	0.580	14.7	0.279	0.92	0.120	0.394	131	430	122	128	137	158	300	445
SPBS2KV-3	T36758	3	25.6	0.060	1.5	0.620	15.7	0.222	0.73	0.115	0.377	148	485	142	146	156	195	345	515
SPBS2KV-2	T36742	2	30.7	0.060	1.5	0.620	15.7	0.178	0.58	0.112	0.367	160	525	162	169	181	217	395	590
SPBS2KV-1	T36759	1	46.0	0.060	1.5	0.720	18.3	0.143	0.47	0.110	0.361	158	518	197	194	208	281	510	760
SPBS2KV-1/0	T36760	1/0	56.3	0.060	1.5	0.750	19.1	0.115	0.38	0.108	0.354	168	551	223	227	243	319	580	865
SPBS2KV-2/0	T36761	2/0	66.5	0.060	1.5	0.790	20.1	0.095	0.31	0.105	0.344	184	604	250	262	281	354	690	1,025
SPBS2KV-3/0	T27068	3/0	92.1	0.080	2.0	0.940	23.9	0.079	0.26	0.105	0.344	216	708	304	300	321	437	935	1,390
SPBS2KV(HD)-4/0	T26034	4/0	112.6	0.080	2.0	1.040	26.4	0.07	0.2	0.11	0.4	146	479	344	351	376	495	1,190	1,770
SPBS2KV(HD)-262	T26035	262	133.1	0.080	2.0	1.100	27.9	0.06	0.2	0.10	0.3	162	531	382	407	436	559	1,360	2,025
SPBS2KV(HD)-313	T26036	313	158.7	0.080	2.0	1.170	29.7	0.06	0.2	0.10	0.3	175	574	426	455	487	617	1,595	2,375
SPBS2KV(HD)-373	T26037	373	189.2	0.080	2.0	1.230	31.2	0.05	0.2	0.10	0.3	189	620	476	516	553	692	1,820	2,710
SPBS2KV(HD)-444	T26038	444	225.2	0.080	2.0	1.300	33.0	0.05	0.2	0.10	0.3	205	672	531	588	630	772	2,125	3,160
SPBS2KV(HD)-535	T26039	535	271.3	0.080	2.0	1.430	36.3	0.04	0.1	0.10	0.3	200	656	596	630	675	871	2,530	3,765
SPBS2KV(HD)-646	T26040	646	327.5	0.080	2.0	1.510	38.4	0.04	0.1	0.10	0.3	216	708	670	731	783	979	2,975	4,425
SPBS2KV(HD)-777	T26041	777	394.2	0.080	2.0	1.640	41.7	0.04	0.1	0.10	0.3	236	774	754	822	881	1,101	3,475	5,170
SPBS2KV(HD)-1111	T26042	1111	563.0	0.110	2.8	1.890	48.0	0.04	0.1	0.10	0.3	257	843	942	1,025	1,098	1,374	4,730	7,040

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.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV & 2000V

Single conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV & 2000V, 8 AWG to 1111 MCM**

A brand of the Prysmian Group

600V

				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)		
SPBS-8	T26024	0.420	10.7	424AN-01	474SW-71	474NP-03	01 = 1/2"	03 = 1/2" - 14 NPT
SPBS-6	T26025	0.480	12.2	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	02 = 3/4"	04 = 1/2" - 14 NPT
SPBS-5	T26026	0.530	13.5	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	03 = 1"	07 = 3/4" - 14 NPT
SPBS-4	T26027	0.540	13.7	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	04 = 1-1/4"	05 = 1/2" - 14 NPT
SPBS-3	T26028	0.560	14.2	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	05 = 1-1/2"	08 = 3/4" - 14 NPT
SPBS-2	T26029	0.610	15.5	424AN-01/ 02/ 10	474SW-53	474NP-05/ 08	06 = 2"	10 = 3/4" - 14 NPT
SPBS-1	T26030	0.680	17.3	424AN-02/ 03/ 10/ 12	474SW-53	474NP-05/ 08	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
SPBS-1/0	T26031	0.710	18.0	424AN-02/ 03/ 10/ 12	474SW-53	474NP-05/ 08	08 = 3"	15 = 1" - 11-1/2 NPT
SPBS-2/0	T26032	0.750	19.1	424AN-02/ 03/ 10/ 12	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
SPBS-3/0	T26033	0.830	21.1	424AN-03/ 04/ 12/ 15	474SW-55	474NP-10/ 14	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
							12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
							15 = 1"	28 = 1-1/2" - 11-1/2 NPT
								31 = 2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								33 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

2000V

				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)		
SPBS2KV-8	T36754	0.460	11.7	424AN-01	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
SPBS2KV-6	T36755	0.520	13.2	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	02 = 3/4"	04 = 1/2" - 14 NPT
SPBS2KV-5	T36756	0.550	14.0	424AN-01/ 02/ 10	474SW-53	474NP-05/ 08	03 = 1"	07 = 3/4" - 14 NPT
SPBS2KV-4	T36757	0.580	14.7	424AN-02/ 10	474SW-53	474NP-05/ 08	04 = 1-1/4"	05 = 1/2" - 14 NPT
SPBS2KV-3	T36758	0.620	15.7	424AN-02/ 10	474SW-53	474NP-05/ 08	05 = 1-1/2"	08 = 3/4" - 14 NPT
SPBS2KV-2	T36742	0.620	15.7	424AN-02/ 10	474SW-53	474NP-05/ 08	06 = 2"	10 = 3/4" - 14 NPT
SPBS2KV-1	T36759	0.720	18.3	424AN-02/ 10	474SW-55	474NP-10/ 14	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
SPBS2KV-1/0	T36760	0.750	19.1	424AN-02/ 03/ 10/ 12	474SW-55	474NP-10/ 14	08 = 3"	15 = 1" - 11-1/2 NPT
SPBS2KV-2/0	T36761	0.790	20.1	424AN-04/ 15	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
SPBS2KV-3/0	T27068	0.940	23.9	424AN-04/ 15	474SW-55	474NP-10/ 14	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
SPBS2KV(HD)-4/0	T26034	1.040	26.4	424AN-03/ 04/ 12/ 15	474SW-56	474NP-15/ 20	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
SPBS2KV(HD)-262	T26035	1.100	27.9	424AN-04/ 15	474SW-56	474NP-15/ 20	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
SPBS2KV(HD)-313	T26036	1.170	29.7	424AN-04/ 15	474SW-56	474NP-15/ 20		31 = 2" - 11-1/2 NPT
SPBS2KV(HD)-373	T26037	1.230	31.2	424AN-05	474SW-56	474NP-15/ 20		32 = 2" - 11-1/2 NPT
SPBS2KV(HD)-444	T26038	1.300	33.0	424AN-05	474SW-57	474NP-21/ 27		33 = 2" - 11-1/2 NPT
SPBS2KV(HD)-535	T26039	1.430	36.3	424AN-05/ 06	474SW-57	474NP-21/ 27		38 = 2-1/2" - 8 NPT
SPBS2KV(HD)-646	T26040	1.510	38.4	424AN-06	474SW-58	474NP-28/ 31		39 = 2-1/2" - 8 NPT
SPBS2KV(HD)-777	T26041	1.640	41.7	424AN-06	474SW-58	474NP-28/ 31		45 = 3" - 8 NPT
SPBS2KV(HD)-1111	T26042	1.890	48.0	424AN-06/ 07	474SW-59	474NP-32		47 = 3" - 8 NPT

Draka Marine, Oil & Gas
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BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Two conductor / **unarmored**
TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

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 Class 1, Division 2 and Zone 2 hazardous locations offshore
- 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. 230- Type TC-ER

CSA 22.2 No. 230 & No. 38 Direct Burial (#14 AWG & larger)

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

CONDUCTORS: 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.

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

Two conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
DPN-8	T26043	8	7.57	0.060	1.5	0.590	15.0	0.70	2.3	0.12	0.4	95	312	58	64	69	77	225	335
DPN-6	T26044	6	12.5	0.060	1.5	0.710	18.0	0.46	1.5	0.11	0.4	126	413	83	85	91	111	320	475
DPN-5	T26045	5	18.6	0.060	1.5	0.810	20.6	0.33	1.1	0.11	0.4	140	459	95	101	108	147	440	655
DPN-4	T26046	4	21.5	0.080	2.0	0.870	22.1	0.29	1.0	0.10	0.3	153	502	104	110	118	153	510	760
DPN-3	T26047	3	25.6	0.080	2.0	0.920	23.4	0.23	0.8	0.10	0.3	173	567	121	132	141	180	605	900
DPN-2	T26048	2	30.7	0.080	2.0	1.010	25.7	0.18	0.6	0.10	0.3	187	613	138	149	160	196	725	1,080
DPN-1	T26049	1	46.0	0.080	2.0	1.150	29.2	0.14	0.5	0.09	0.3	178	584	168	174	186	245	930	1,385
DPN-1/0	T26050	1/0	56.3	0.080	2.0	1.220	31.0	0.12	0.4	0.09	0.3	190	623	190	199	213	278	1,125	1,675
DPN-2/0	T26051	2/0	66.5	0.080	2.0	1.300	33.0	0.09	0.3	0.09	0.3	212	695	213	242	259	309	1,295	1,925
DPN-3/0	T26052	3/0	92.1	0.080	2.0	1.500	38.1	0.08	0.3	0.09	0.3	245	804	259	265	284	382	1,710	2,545
DPN-4/0	T26053	4/0	112.6	0.080	2.0	1.610	40.9	0.07	0.2	0.09	0.3	259	850	293	307	329	432	2,125	3,160
DPN-262	T26054	262	133.0	0.110	2.8	1.840	46.7	0.06	0.2	0.09	0.3	247	810	325	358	383	481	2,600	3,870
DPN-313	T26055	313	158.6	0.110	2.8	1.970	50.0	0.05	0.2	0.09	0.3	270	886	362	391	419	539	3,035	4,515
DPN-373	T26056	373	189.3	0.110	2.8	2.090	53.1	0.04	0.1	0.09	0.3	292	958	405	442	473	599	3,380	5,030
DPN-444	T26057	444	225.1	0.110	2.8	2.180	55.4	0.04	0.1	0.09	0.3	318	1,043	451	504	540	669	3,955	5,885
DPN-535	T26058	535	271.2	0.110	2.8	2.430	61.7	0.04	0.1	0.09	0.3	291	954	507	538	576	741	4,960	7,380
DPN-646	T26059	646	327.5	0.110	2.8	2.630	66.8	0.04	0.1	0.09	0.3	314	1,030	570	632	677	944	5,880	8,750
DPN-777	T26060	777	393.8	0.140	3.6	2.900	73.7	0.03	0.1	0.09	0.3	345	1,132	641	684	733	951	7,030	10,460

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.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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

Two conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

				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)		
DPN-8	T26043	0.590	15.0	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
DPN-6	T26044	0.710	18.0	424UB-03/ 04	494AB-55	494NE-10/ 14	02 = 1/2"	04 = 1/2" - 14 NPT
DPN-5	T26045	0.810	20.6	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	03 = 3/4"	05 = 1/2" - 14 NPT
DPN-4	T26046	0.870	22.1	424UB-04	494AB-56	494NE-15/ 20	04 = 1"	08 = 3/4" - 14 NPT
DPN-3	T26047	0.920	23.4	424UB-04	494AB-56	494NE-15/ 20	05 = 1-1/4"	10 = 3/4" - 14 NPT
DPN-2	T26048	1.010	25.7	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
DPN-1	T26049	1.150	29.2	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	06 = 2"	15 = 1" - 11-1/2 NPT
DPN-1/0	T26050	1.220	31.0	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
DPN-2/0	T26051	1.300	33.0	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
DPN-3/0	T26052	1.500	38.1	424UB-06	494AB-59	494NE-32	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
DPN-4/0	T26053	1.610	40.9	424UB-06/ 07	494AB-61	494NE-38		32 = 2" - 11-1/2 NPT
DPN-262	T26054	1.840	46.7	424UB-07	494AB-61	494NE-38		38 = 2-1/2" - 8 NPT
DPN-313	T26055	1.970	50.0	424UB-07/ 08	494AB-61	494NE-38		44 = 3" - 8 NPT
DPN-373	T26056	2.090	53.1	424UB-08	494AB-62	494NE-44		45 = 3" - 8 NPT
DPN-444	T26057	2.180	55.4	424UB-08/ 09	494AB-62/ 63	494NE-44/ 45		
DPN-535	T26058	2.430	61.7	424UB-09	494AB-63	494NE-45		
DPN-646	T26059	2.630	66.8	424UB-09	***	***		
DPN-777	T26060	2.900	73.7	424UB-09	***	***		

Draka

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

Two conductor / **armored and sheathed**
TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

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 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

CONDUCTORS: 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.

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

Two conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
DPNBS-8	T26108	8	7.57	0.060	1.5	0.780	19.8	0.70	2.3	0.12	0.4	95	312	58	64	69	77	420	625
DPNBS-6	T26109	6	12.5	0.080	2.0	0.920	23.4	0.46	1.5	0.11	0.4	126	413	83	85	91	111	600	895
DPNBS-5	T26110	5	18.6	0.080	2.0	1.040	26.4	0.33	1.1	0.11	0.4	140	459	95	101	108	147	720	1,070
DPNBS-4	T26111	4	21.5	0.080	2.0	1.100	27.9	0.29	1.0	0.10	0.3	153	502	104	110	118	153	845	1,255
DPNBS-3	T26112	3	25.6	0.080	2.0	1.140	29.0	0.23	0.8	0.10	0.3	173	567	121	132	141	180	940	1,400
DPNBS-2	T26113	2	30.7	0.080	2.0	1.230	31.2	0.18	0.6	0.10	0.3	187	613	138	149	160	196	1,,120	1,665
DPNBS-1	T26114	1	46.0	0.080	2.0	1.370	34.8	0.14	0.5	0.09	0.3	178	584	168	174	186	245	1,380	2,055
DPNBS-1/0	T26115	1/0	56.3	0.080	2.0	1.440	36.6	0.12	0.4	0.09	0.3	190	623	190	199	213	278	1,605	2,390
DPNBS-2/0	T26116	2/0	66.5	0.080	2.0	1.600	40.6	0.09	0.3	0.09	0.3	212	695	213	242	259	309	1,845	2,745
DPNBS-3/0	T26117	3/0	92.1	0.110	2.8	1.790	45.5	0.08	0.3	0.09	0.3	245	804	259	265	284	382	2,435	3,625
DPNBS-4/0	T26118	4/0	112.6	0.110	2.8	1.980	50.3	0.07	0.2	0.09	0.3	259	850	293	307	329	432	2,980	4,435
DPNBS-262	T26119	262	133.0	0.110	2.8	2.150	54.6	0.06	0.2	0.09	0.3	247	810	325	358	383	481	3,560	5,300
DPNBS-313	T26120	313	158.6	0.110	2.8	2.250	57.2	0.05	0.2	0.09	0.3	270	886	362	391	419	539	4,005	5,960
DPNBS-373	T26121	373	189.3	0.110	2.8	2.390	60.7	0.04	0.1	0.09	0.3	292	958	405	442	473	599	4,395	6,540
DPNBS-444	T26122	444	225.1	0.110	2.8	2.530	64.3	0.04	0.1	0.09	0.3	318	1,043	45	504	540	669	5,240	7,800
DPNBS-535	T26123	535	271.2	0.140	3.6	2.840	72.1	0.04	0.1	0.09	0.3	291	954	507	538	576	741	6,175	9,190
DPNBS-646	T26124	646	327.5	0.140	3.6	3.040	77.2	0.04	0.1	0.09	0.3	314	1,030	570	632	677	944	7,185	10,690
DPNBS-777	T26125	777	393.8	0.140	3.6	3.240	82.3	0.03	0.1	0.09	0.3	345	1,132	641	684	733	951	8,420	12,530

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.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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

Two conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

				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)		
DPNBS-8	T26108	0.780	19.8	424AN-03/ 12	474SW-55	474NP-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
DPNBS-6	T26109	0.920	23.4	424AN-04/ 15	474SW-55	474NP-10/ 14	02 = 3/4"	04 = 1/2" - 14 NPT
DPNBS-5	T26110	1.040	26.4	424AN-04/ 15	474SW-56	474NP-15/ 20	03 = 1"	07 = 3/4" - 14 NPT
DPNBS-4	T26111	1.100	27.9	424AN-04/ 15	474SW-56	474NP-15/ 20	04 = 1-1/4"	05 = 1/2" - 14 NPT
DPNBS-3	T26112	1.140	29.0	424AN-04/ 15	474SW-56	474NP-15/ 20	05 = 1-1/2"	08 = 3/4" - 14 NPT
DPNBS-2	T26113	1.230	31.2	424AN-05	474SW-56	474NP-15/ 20	06 = 2"	10 = 3/4" - 14 NPT
DPNBS-1	T26114	1.370	34.8	424AN-05	474SW-57	474NP-21/ 27	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
DPNBS-1/0	T26115	1.440	36.6	424AN-06	474SW-57	474NP-21/ 27	08 = 3"	15 = 1" - 11-1/2 NPT
DPNBS-2/0	T26116	1.600	40.6	424AN-06	474SW-58	474NP-28/ 31	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
DPNBS-3/0	T26117	1.790	45.5	424AN-06	474SW-58	474NP-28/ 31	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
DPNBS-4/0	T26118	1.980	50.3	424AN-07	474SW-59	474NP-32	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
DPNBS-262	T26119	2.150	54.6	424AN-07	474SW-60	474NP-33	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
DPNBS-313	T26120	2.250	57.2	424AN-07	474SW-60	474NP-33		31 = 2" - 11-1/2 NPT
DPNBS-373	T26121	2.390	60.7	424AN-08	474SW-61	474NP-38		32 = 2" - 11-1/2 NPT
DPNBS-444	T26122	2.530	64.3	424AN-08	474SW-61	474NP-38		33 = 2" - 11-1/2 NPT
DPNBS-535	T26123	2.840	72.1	424AN-08/ 09	474SW-63	474NP-45		38 = 2-1/2" - 8 NPT
DPNBS-646	T26124	3.040	77.2	424AN-09	474SW-63	474NP-45		39 = 2-1/2" - 8 NPT
DPNBS-777	T26125	3.240	82.3	424AN-09	474SW-64	474NP-47		45 = 3" - 8 NPT
								47 = 3" - 8 NPT

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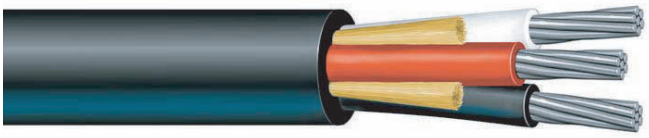
BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Three conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**



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 Class 1, Division 2 and Zone 2 hazardous locations offshore
- 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. 230- Type TC-ER

CSA 22.2 No. 230 & No. 38 Direct Burial (#14 AWG & larger)

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

CONDUCTORS: 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.

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

Three conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
TPN-8	T26061	8	7.57	0.060	1.5	0.640	16.3	0.70	2.3	0.12	0.4	95	312	47	52	56	63	300	445
TPN-6	T26062	6	12.5	0.060	1.5	0.770	19.6	0.46	1.5	0.11	0.4	126	413	63	70	75	91	435	645
TPN-5	T26063	5	18.6	0.080	2.0	0.890	22.6	0.33	1.1	0.11	0.4	140	459	78	82	88	120	555	825
TPN-4	T26064	4	21.5	0.080	2.0	0.930	23.6	0.29	1.0	0.10	0.3	153	502	86	92	99	126	685	1,020
TPN-3	T26065	3	25.6	0.080	2.0	1.010	25.7	0.23	0.8	0.10	0.3	173	567	99	108	116	148	830	1,235
TPN-2	T26066	2	30.7	0.080	2.0	1.070	27.2	0.18	0.6	0.10	0.3	187	613	111	122	131	161	965	1,435
TPN-1	T26067	1	46.1	0.080	2.0	1.220	31.0	0.14	0.5	0.09	0.3	178	584	137	143	153	202	1,270	1,890
TPN-1/0	T26068	1/0	56.3	0.080	2.0	1.300	33.0	0.12	0.4	0.09	0.3	190	623	156	164	176	229	1,545	2,300
TPN-2/0	T26069	2/0	66.5	0.080	2.0	1.390	35.3	0.09	0.3	0.09	0.3	212	695	175	188	201	254	1,815	2,700
TPN-3/0	T26070	3/0	92.1	0.080	2.0	1.550	39.4	0.08	0.3	0.09	0.3	245	804	213	218	234	313	2,400	3,570
TPN-4/0	T26071	4/0	112.6	0.110	2.8	1.720	43.7	0.07	0.2	0.09	0.3	259	850	241	252	270	354	3,015	4,485
TPN-262	T26072	262	133.0	0.110	2.8	1.870	47.5	0.06	0.2	0.09	0.3	247	810	267	294	315	395	3,520	5,240
TPN-313	T26073	313	158.6	0.110	2.8	2.050	52.1	0.05	0.2	0.09	0.3	270	886	298	321	344	442	4,180	6,220
TPN-373	T26074	373	189.3	0.110	2.8	2.180	55.4	0.04	0.1	0.09	0.3	292	958	333	361	387	492	4,780	7,115
TPN-444	T26075	444	225.1	0.110	2.8	2.330	59.2	0.04	0.1	0.09	0.3	318	1,043	371	411	440	549	5,680	8,455
TPN-535	T26076	535	271.2	0.110	2.8	2.540	64.5	0.04	0.1	0.09	0.3	291	954	417	443	475	608	6,690	9,955
TPN-646	T26077	646	327.5	0.140	3.6	2.810	71.4	0.04	0.1	0.09	0.3	314	1,030	469	516	553	678	8,215	12,225
TPN-777	T26078	777	393.8	0.140	3.6	3.070	78.0	0.03	0.1	0.09	0.3	345	1,132	528	562	602	750	9,720	14,465

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.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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

Three conductor / **unarmored**

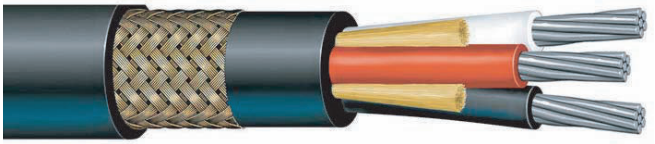
TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

				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)		
TPN-8	026061	0.640	16.3	424UB-03	494AB-55	494NE-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
TPN-6	026062	0.770	19.6	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	02 = 1/2"	04 = 1/2" - 14 NPT
TPN-5	026063	0.890	22.6	424UB-04	494AB-56	494NE-15/ 20	03 = 3/4"	05 = 1/2" - 14 NPT
TPN-4	026064	0.930	23.6	424UB-04	494AB-56	494NE-15/ 20	04 = 1"	08 = 3/4" - 14 NPT
TPN-3	026065	1.010	25.7	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	05 = 1-1/4"	10 = 3/4" - 14 NPT
TPN-2	026066	1.070	27.2	424UB-05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
TPN-1	026067	1.220	31.0	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	06 = 2"	15 = 1" - 11-1/2 NPT
TPN-1/0	026068	1.300	33.0	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
TPN-2/0	026069	1.390	35.3	424UB-06	494AB-59	494NE-32	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
TPN-3/0	026070	1.550	39.4	424UB-06	494AB-59	494NE-32	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
TPN-4/0	026071	1.720	43.7	424UB-07	494AB-61	494NE-38		32 = 2" - 11-1/2 NPT
TPN-262	026072	1.870	47.5	424UB-07	494AB-61	494NE-38		38 = 2-1/2" - 8 NPT
TPN-313	026073	2.050	52.1	424UB-07/ 08	494AB-61	494NE-38		44 = 3" - 8 NPT
TPN-373	026074	2.180	55.4	424UB-08/ 09	494AB-62/ 63	494NE-44/ 45		45 = 3" - 8 NPT
TPN-444	026075	2.330	59.2	424UB-08/ 09	494AB-63	494NE-45		
TPN-535	026076	2.540	64.5	424UB-09	494AB-63	494NE-45		
TPN-646	026077	2.810	71.4	424UB-09	***	***		
TPN-777	026078	3.070	78.0	***	***	***		

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

Three conductor / **armored and sheathed**
TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**



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
- 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

CONDUCTORS: 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.

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

Three conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
TPNBS-8	T26126	8	7.57	0.060	1.5	0.810	20.6	0.70	2.3	0.12	0.4	95	312	47	52	56	63	510	760
TPNBS-6	T26127	6	12.5	0.080	2.0	0.990	25.1	0.46	1.5	0.11	0.4	126	413	63	70	75	91	735	1,095
TPNBS-5	T26128	5	18.6	0.080	2.0	1.120	28.4	0.33	1.1	0.11	0.4	140	459	78	82	88	120	900	1,340
TPNBS-4	T26129	4	21.5	0.080	2.0	1.150	29.2	0.29	1.0	0.10	0.3	153	502	86	92	99	126	1,045	1,555
TPNBS-3	T26130	3	25.6	0.080	2.0	1.230	31.2	0.23	0.8	0.10	0.3	173	567	99	108	116	148	1,225	1,825
TPNBS-2	T26131	2	30.7	0.080	2.0	1.300	33.0	0.18	0.6	0.10	0.3	187	613	111	122	131	161	1,385	2,060
TPNBS-1	T26132	1	46.1	0.080	2.0	1.450	36.8	0.14	0.5	0.09	0.3	178	584	137	143	153	202	1,780	2,650
TPNBS-1/0	T26133	1/0	56.3	0.080	2.0	1.540	39.1	0.12	0.4	0.09	0.3	190	623	156	164	176	229	2,115	3,145
TPNBS-2/0	T26134	2/0	66.5	0.080	2.0	1.610	40.9	0.09	0.3	0.09	0.3	212	695	175	188	201	254	2,395	3,565
TPNBS-3/0	T26135	3/0	92.1	0.110	2.8	1.830	46.5	0.08	0.3	0.09	0.3	245	804	213	218	234	313	3,145	4,680
TPNBS-4/0	T26136	4/0	112.6	0.110	2.8	2.000	50.8	0.07	0.2	0.09	0.3	259	850	241	252	270	354	3,870	5,760
TPNBS-262	T26137	262	133.0	0.110	2.8	2.160	54.9	0.06	0.2	0.09	0.3	247	810	267	294	315	395	4,440	6,605
TPNBS-313	T26138	313	158.6	0.110	2.8	2.340	59.4	0.05	0.2	0.09	0.3	270	886	298	321	344	442	5,185	7,715
TPNBS-373	T26139	373	189.3	0.110	2.8	2.460	62.5	0.04	0.1	0.09	0.3	292	958	333	361	387	492	5,860	8,720
TPNBS-444	T26140	444	225.1	0.110	2.8	2.620	66.5	0.04	0.1	0.09	0.3	318	1,043	371	411	440	549	6,815	10,140
TPNBS-535	T26141	535	271.2	0.140	3.6	2.880	73.2	0.04	0.1	0.09	0.3	291	954	417	443	475	608	8,070	12,010
TPNBS-646	T26142	646	327.5	0.140	3.6	3.200	81.3	0.04	0.1	0.09	0.3	314	1,030	469	516	553	678	9,765	14,530
TPNBS-777	T26143	777	393.8	0.140	3.6	3.450	87.6	0.03	0.1	0.09	0.3	345	1,132	528	562	602	750	11,415	16,985

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.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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

Three conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

				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)		
TPNBS-8	T26126	0.810	20.6	424AN-03/ 12	474SW-55	474NP-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
TPNBS-6	T26127	0.990	25.1	424AN-04/ 15	474SW-55	474NP-10/ 14	02 = 3/4"	04 = 1/2" - 14 NPT
TPNBS-5	T26128	1.120	28.4	424AN-04/ 15	474SW-56	474NP-15/ 20	03 = 1"	07 = 3/4" - 14 NPT
TPNBS-4	T26129	1.150	29.2	424AN-04/ 15	474SW-56	474NP-15/ 20	04 = 1-1/4"	05 = 1/2" - 14 NPT
TPNBS-3	T26130	1.230	31.2	424AN-05	474SW-56	474NP-15/ 20	05 = 1-1/2"	08 = 3/4" - 14 NPT
TPNBS-2	T26131	1.300	33.0	424AN-05	474SW-56	474NP-15/ 20	06 = 2"	10 = 3/4" - 14 NPT
TPNBS-1	T26132	1.450	36.8	424AN-05/ 06	474SW-57	474NP-21/ 27	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
TPNBS-1/0	T26133	1.540	39.1	424AN-06	474SW-58	474NP-28/ 31	08 = 3"	15 = 1" - 11-1/2 NPT
TPNBS-2/0	T26134	1.610	40.9	424AN-06	474SW-58	474NP-28/ 31	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
TPNBS-3/0	T26135	1.830	46.5	424AN-07	474SW-59	474NP-32	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
TPNBS-4/0	T26136	2.000	50.8	424AN-07	474SW-60	474NP-33	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
TPNBS-262	T26137	2.160	54.9	424AN-07	474SW-60	474NP-33	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
TPNBS-313	T26138	2.340	59.4	424AN-07	474SW-61	474NP-38		31 = 2" - 11-1/2 NPT
TPNBS-373	T26139	2.460	62.5	424AN-08	474SW-62	474NP-39		32 = 2" - 11-1/2 NPT
TPNBS-444	T26140	2.620	66.5	424AN-08	474SW-62	474NP-39		33 = 2" - 11-1/2 NPT
TPNBS-535	T26141	2.880	73.2	424AN-09	474SW-63	474NP-45		38 = 2-1/2" - 8 NPT
TPNBS-646	T26142	3.200	81.3	424AN-09	474SW-64	474NP-47		39 = 2-1/2" - 8 NPT
TPNBS-777	T26143	3.450	87.6	***	474SW-64	474NP-47		45 = 3" - 8 NPT
								47 = 3" - 8 NPT

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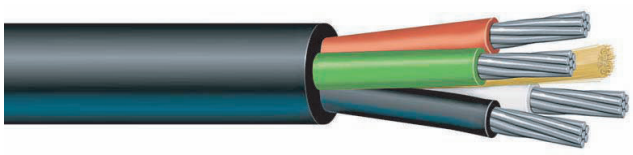
BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Four conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**



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, mud, 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 Class 1, Division 2 and Zone 2 hazardous locations offshore
- 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. 230- Type TC-ER

CSA 22.2 No. 230 & No. 38 Direct Burial (#14 AWG & larger)

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

CONDUCTORS: 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.

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

Four conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
FPN-8	T26079	8	7.57	0.060	1.5	0.690	17.5	0.70	2.3	0.12	0.4	95	312	47	52	56	63	375	560
FPN-6	T26080	6	12.5	0.080	2.0	0.890	22.6	0.46	1.5	0.11	0.4	126	413	63	70	75	91	590	750
FPN-5	T26081	5	18.6	0.080	2.0	0.960	24.4	0.33	1.1	0.11	0.4	140	459	78	82	88	120	750	1,120
FPN-4	T26082	4	21.5	0.080	2.0	1.020	25.9	0.29	1.0	0.10	0.3	153	502	86	92	99	126	870	1,300
FPN-3	T26083	3	25.6	0.080	2.0	1.110	28.2	0.23	0.8	0.10	0.3	173	567	99	108	116	148	1,070	1,600
FPN-2	T26084	2	30.7	0.080	2.0	1.190	30.2	0.18	0.6	0.10	0.3	187	613	111	122	131	161	1,260	1,880
FPN-1	T26085	1	46.1	0.080	2.0	1.360	34.5	0.14	0.5	0.09	0.3	178	584	137	143	153	202	1,640	2,440
FPN-1/0	T26086	1/0	56.3	0.080	2.0	1.440	36.6	0.12	0.4	0.09	0.3	190	623	156	164	176	229	1,955	2,910
FPN-2/0	T26087	2/0	66.5	0.080	2.0	1.540	39.1	0.09	0.3	0.09	0.3	212	695	175	188	201	254	2,345	3,490
FPN-3/0	T26088	3/0	92.1	0.110	2.8	1.840	46.7	0.08	0.3	0.09	0.3	245	804	213	218	234	313	3,265	4,870
FPN-4/0	T26089	4/0	112.6	0.110	2.8	1.910	48.5	0.07	0.2	0.09	0.3	259	850	241	252	270	354	3,905	5,820
FPN-262	T26090	262	133.0	0.110	2.8	2.070	52.6	0.06	0.2	0.09	0.3	247	810	267	294	315	395	4,605	6,860
FPN-313	T26091	313	158.6	0.110	2.8	2.300	58.4	0.05	0.2	0.09	0.3	270	886	298	321	344	442	5,465	8,140
FPN-373	T26092	373	189.3	0.110	2.8	2.420	61.5	0.04	0.1	0.09	0.3	292	958	333	361	387	492	6,235	9,290
FPN-444	T26093	444	225.1	0.110	2.8	2.580	65.5	0.04	0.1	0.09	0.3	318	1,043	371	411	440	549	7,400	11,030
FPN-535	T26094	535	271.2	0.140	3.6	2.940	74.7	0.04	0.1	0.09	0.3	291	954	417	443	475	608	8,960	13,350
FPN-646	T26095	646	327.5	0.140	3.6	3.120	79.2	0.04	0.1	0.09	0.3	314	1,030	469	516	553	678	10,720	15,970
FPN-777	T26096	777	393.8	0.140	3.6	3.410	86.6	0.03	0.1	0.09	0.3	345	1,132	528	562	602	750	12,585	18,752

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 Table 25 - 110°C values based on API 14F.
The ampacity of 4 conductor cables is based on three current carrying conductors and the fourth conductor being used as a Neutral or Grounding conductor. If all conductors are current carrying,the ampacity must be reduced by 0.8.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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

Four conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

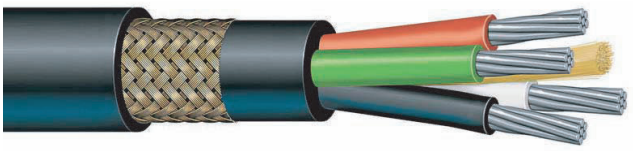
A brand of the Prysmian Group

				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)		
FPN-8	T26079	0.690	17.5	424UB-03/ 04	494AB-55	494NE-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
FPN-6	T26080	0.890	22.6	424UB-04	494AB-56	494NE-15/ 20	02 = 1/2"	04 = 1/2" - 14 NPT
FPN-5	T26081	0.960	24.4	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	03 = 3/4"	05 = 1/2" - 14 NPT
FPN-4	T26082	1.020	25.9	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	04 = 1"	08 = 3/4" - 14 NPT
FPN-3	T26083	1.110	28.2	424UB-05/15	494AB-57	494NE-21/ 27	05 = 1-1/4"	10 = 3/4" - 14 NPT
FPN-2	T26084	1.190	30.2	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
FPN-1	T26085	1.360	34.5	424UB-06	494AB-59	494NE-32	06 = 2"	15 = 1" - 11-1/2 NPT
FPN-1/0	T26086	1.440	36.6	424UB-06	494AB-59	494NE-32	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
FPN-2/0	T26087	1.540	39.1	424UB-06	494AB-59	494NE-32	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
FPN-3/0	T26088	1.840	46.7	424UB-07	494AB-61	494NE-38	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
FPN-4/0	T26089	1.910	48.5	424UB-07	494AB-61	494NE-38		32 = 2" - 11-1/2 NPT
FPN-262	T26090	2.070	52.6	424UB-07/ 08	494AB-62	494NE-44		38 = 2-1/2" - 8 NPT
FPN-313	T26091	2.300	58.4	424UB-08/ 09	494AB-63	494NE-45		44 = 3" - 8 NPT
FPN-373	T26092	2.420	61.5	424UB-08/ 09	494AB-63	494NE-45		45 = 3" - 8 NPT
FPN-444	T26093	2.580	65.5	424UB-09	***	***		
FPN-535	T26094	2.940	74.7	***	***	***		
FPN-646	T26095	3.120	79.2	***	***	***		
FPN-777	T26096	3.410	86.6	***	***	***		

Draka

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

Four conductor / **armored and sheathed**
TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**



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
- 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

CONDUCTORS: 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.

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

Four conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
FPNBS-8	T26144	8	7.57	0.080	2.0	0.910	23.1	0.70	2.3	0.13	0.4	95	312	47	52	56	63	645	960
FPNBS-6	T26145	6	12.5	0.080	2.0	1.110	28.2	0.46	1.5	0.12	0.4	126	413	63	70	75	91	940	1,400
FPNBS-5	T26146	5	18.6	0.080	2.0	1.180	30.0	0.33	1.1	0.11	0.4	140	459	78	82	88	120	1,125	1,675
FPNBS-4	T26147	4	21.5	0.080	2.0	1.240	31.5	0.29	1.0	0.11	0.4	153	502	86	92	99	126	1,225	1,825
FPNBS-3	T26148	3	25.6	0.080	2.0	1.340	34.0	0.23	0.8	0.11	0.4	173	567	99	108	116	148	1,525	2,270
FPNBS-2	T26149	2	30.7	0.080	2.0	1.410	35.8	0.18	0.6	0.10	0.3	187	613	111	122	131	161	1,730	2,575
FPNBS-1	T26150	1	46.1	0.080	2.0	1.580	40.1	0.14	0.5	0.10	0.3	178	584	137	143	153	202	2,205	3,280
FPNBS-1/0	T26151	1/0	56.3	0.110	2.8	1.720	43.7	0.12	0.4	0.10	0.3	190	623	156	164	176	229	2,660	3,960
FPNBS-2/0	T26152	2/0	66.5	0.110	2.8	1.820	46.2	0.09	0.3	0.10	0.3	212	695	175	188	201	254	3,090	4,600
FPNBS-3/0	T26153	3/0	92.1	0.110	2.8	2.100	53.3	0.08	0.3	0.10	0.3	245	804	213	218	234	313	4,150	6,175
FPNBS-4/0	T26154	4/0	112.6	0.110	2.8	2.190	55.6	0.07	0.2	0.09	0.3	259	850	241	252	270	354	4,845	7,210
FPNBS-262	T26155	262	133.0	0.110	2.8	2.340	59.4	0.06	0.2	0.09	0.3	247	810	267	294	315	395	5,275	7,850
FPNBS-313	T26156	313	158.6	0.110	2.8	2.600	66.0	0.05	0.2	0.09	0.3	270	886	298	321	344	442	6,640	9,880
FPNBS-373	T26157	373	189.3	0.110	2.8	2.700	68.6	0.04	0.1	0.09	0.3	292	958	333	361	387	492	7,410	11,025
FPNBS-444	T26158	444	225.1	0.140	3.6	2.920	74.2	0.04	0.1	0.09	0.3	318	1,043	371	411	440	549	8,835	13,150
FPNBS-535	T26159	535	271.2	0.140	3.6	3.320	84.3	0.04	0.1	0.09	0.3	291	954	417	443	475	608	10,690	15,910
FPNBS-646	T26160	646	327.5	0.140	3.6	3.470	88.1	0.04	0.1	0.09	0.3	314	1,030	469	516	553	678	12,430	18,500
FPNBS-777	T26161	777	393.8	0.140	3.6	3.760	95.5	0.04	0.1	0.09	0.3	345	1,132	528	562	602	750	14,,355	21,365

This information is provided for reference only. Please consult the factory or your representative to confirm all engineering information.
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†Ampacity based on 45°C ambient temperature 95°C values based on ABS MODU Rules Table 6 - 100°C values based on IEEE-45 Table 25 - 110°C values based on API 14F.
The ampacity of 4 conductor cables is based on three current carrying conductors and the fourth conductor being used as a Neutral or Grounding conductor. If all conductors are current carrying,the ampacity must be reduced by 0.8.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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

Four conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

				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)		
FPNBS-8	T26144	0.910	23.1	424AN-03/ 04/ 12/ 15	474SW-55	474NP-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
FPNBS-6	T26145	1.110	28.2	424AN-04/ 15	474SW-56	474NP-15/ 20	02 = 3/4"	04 = 1/2" - 14 NPT
FPNBS-5	T26146	1.180	30.0	424AN-05	474SW-56	474NP-15/ 20	03 = 1"	07 = 3/4" - 14 NPT
FPNBS-4	T26147	1.240	31.5	424AN-05	474SW-56	474NP-15/ 20	04 = 1-1/4"	05 = 1/2" - 14 NPT
FPNBS-3	T26148	1.340	34.0	424AN-05	474SW-57	474NP-21/ 27	05 = 1-1/2"	08 = 3/4" - 14 NPT
FPNBS-2	T26149	1.410	35.8	424AN-05	474SW-57	474NP-21/ 27	06 = 2"	10 = 3/4" - 14 NPT
FPNBS-1	T26150	1.580	40.1	424AN-06	474SW-58	474NP-28/ 31	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
FPNBS-1/0	T26151	1.720	43.7	424AN-06	474SW-59	474NP-32	08 = 3"	15 = 1" - 11-1/2 NPT
FPNBS-2/0	T26152	1.820	46.2	424AN-06	474SW-59	474NP-32	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
FPNBS-3/0	T26153	2.100	53.3	424AN-07	474SW-60	474NP-33	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
FPNBS-4/0	T26154	2.190	55.6	424AN-07	474SW-61	474NP-38	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
FPNBS-262	T26155	2.340	59.4	424AN-08	474SW-61	474NP-38	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
FPNBS-313	T26156	2.600	66.0	424AN-08	474SW-62	474NP-39		31 = 2" - 11-1/2 NPT
FPNBS-373	T26157	2.700	68.6	424AN-08/ 09	474SW-63	474NP-45		32 = 2" - 11-1/2 NPT
FPNBS-444	T26158	2.920	74.2	424AN-09	474SW-64	474NP-47		33 = 2" - 11-1/2 NPT
FPNBS-535	T26159	3.320	84.3	***	***	***		38 = 2-1/2" - 8 NPT
FPNBS-646	T26160	3.470	88.1	***	***	***		39 = 2-1/2" - 8 NPT
FPNBS-777	T26161	3.760	95.5	***	***	***		45 = 3" - 8 NPT
								47 = 3" - 8 NPT

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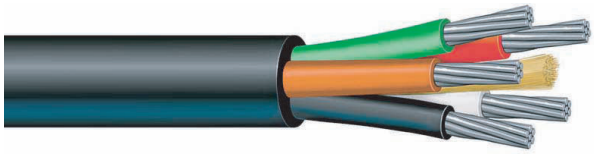
BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Five conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 4/0 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 Class 1, Division 2 and Zone 2 hazardous locations offshore
- 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. 230- Type TC-ER

CSA 22.2 No. 230 & No. 38 Direct Burial (#14 AWG & larger)

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

CONDUCTORS: 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.

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

Five conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
QPN-8	T26097	8	7.57	0.060	1.5	0.760	19.3	0.70	2.3	0.12	0.4	95	312	38	42	45	50	460	685
QPN-6	T26098	6	12.5	0.080	2.0	0.980	24.9	0.46	1.5	0.11	0.4	126	413	50	56	60	73	725	1,080
QPN-5	T26099	5	18.6	0.080	2.0	1.080	27.4	0.33	1.1	0.11	0.4	140	459	62	66	70	96	950	1,415
QPN-4	T26100	4	21.5	0.080	2.0	1.120	28.4	0.29	1.0	0.10	0.3	153	502	69	74	79	101	1,075	1,600
QPN-3	T26101	3	25.6	0.080	2.0	1.200	30.5	0.23	0.8	0.10	0.3	173	567	79	86	93	118	1,260	1,875
QPN-2	T26102	2	30.7	0.080	2.0	1.270	32.3	0.18	0.6	0.10	0.3	187	613	89	98	105	129	1,530	2,275
QPN-1	T26103	1	46.1	0.080	2.0	1.510	38.4	0.14	0.5	0.09	0.3	178	584	110	114	122	162	2,040	3,035
QPN-1/0	T26104	1/0	56.3	0.080	2.0	1.650	41.9	0.12	0.4	0.09	0.3	190	623	125	131	141	183	2,455	3,655
QPN-2/0	T26105	2/0	66.5	0.110	2.8	1.790	45.5	0.09	0.3	0.09	0.3	212	695	140	150	161	203	2,695	4,010
QPN-3/0	T26106	3/0	92.1	0.110	2.8	2.060	52.3	0.08	0.3	0.09	0.3	245	804	170	174	187	250	3,995	5,945
QPN-4/0	T26107	4/0	112.6	0.110	2.8	2.200	55.9	0.07	0.2	0.09	0.3	259	850	193	202	216	283	4785	7,120

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.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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

Five conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 777 MCM**

A brand of the Prysmian Group

				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)		
QPN-8	T26097	0.760	19.3	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	01 = 1/2"	03 = 1/2" - 14 NPT
QPN-6	T26098	0.980	24.9	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	02 = 1/2"	04 = 1/2" - 14 NPT
QPN-5	T26099	1.080	27.4	424UB-05/ 15	494AB-57	494NE-21/ 27	03 = 3/4"	05 = 1/2" - 14 NPT
QPN-4	T26100	1.120	28.4	424UB-05/ 15	494AB-57	494NE-21/ 27	04 = 1"	08 = 3/4" - 14 NPT
QPN-3	T26101	1.200	30.5	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	05 = 1-1/4"	10 = 3/4" - 14 NPT
QPN-2	T26102	1.270	32.3	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
QPN-1	T26103	1.510	38.4	424UB-06	494AB-59	494NE-32	06 = 2"	15 = 1" - 11-1/2 NPT
QPN-1/0	T26104	1.650	41.9	424UB-06/ 07	494AB-61	494NE-38	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
QPN-2/0	T26105	1.790	45.5	424UB-07	494AB-61	494NE-38	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
QPN-3/0	T26106	2.060	52.3	424UB-07/ 08	494AB-61	494NE-38	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
QPN-4/0	T26107	2.200	55.9	424UB-08/ 09	494AB-62/ 63	494NE-44/ 45		32 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								44 = 3" - 8 NPT
								45 = 3" - 8 NPT

Draka

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

Five conductor / **armored and sheathed**
TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 4/0 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
- 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

CONDUCTORS: 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.

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

Five conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 4/0 AWG**

A brand of the Prysmian Group

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calulated Ampacity † (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
QPNBS-8	T26162	8	7.57	0.080	2.0	0.980	24.9	0.70	2.3	0.13	0.4	95	312	38	42	45	50	750	1,115
QPNBS-6	T26163	6	12.5	0.080	2.0	1.200	30.5	0.46	1.5	0.12	0.4	126	413	50	56	60	73	1,100	1,635
QPNBS-5	T26164	5	18.6	0.080	2.0	1.310	33.3	0.33	1.1	0.11	0.4	140	459	62	66	70	96	1,350	2,010
QPNBS-4	T26165	4	21.5	0.080	2.0	1.350	34.3	0.29	1.0	0.11	0.4	153	502	69	74	79	101	1,515	2,255
QPNBS-3	T26166	3	25.6	0.080	2.0	1.420	36.1	0.23	0.8	0.11	0.4	173	567	79	86	93	118	1,775	2,640
QPNBS-2	T26167	2	30.7	0.080	2.0	1.500	38.1	0.18	0.6	0.10	0.3	187	613	89	98	105	129	2,055	3,060
QPNBS-1	T26168	1	46.1	0.110	2.8	1.790	45.5	0.14	0.5	0.10	0.3	178	584	110	114	122	162	2,770	4,120
QPNBS-1/0	T26169	1/0	56.3	0.110	2.8	1.930	49.0	0.12	0.4	0.10	0.3	190	623	125	131	141	183	3,260	4,850
QPNBS-2/0	T26170	2/0	66.5	0.110	2.8	2.070	52.6	0.09	0.3	0.10	0.3	212	695	140	150	161	203	3,920	5,835
QPNBS-3/0	T26171	3/0	92.1	0.110	2.8	2.360	59.9	0.08	0.3	0.10	0.3	245	804	170	174	187	250	5,150	7,665
QPNBS-4/0	T26172	4/0	112.6	0.110	2.8	2.480	63.0	0.07	0.2	0.09	0.3	259	850	193	202	216	283	5,970	8,885

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.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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

Five conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 4/0 AWG**

A brand of the Prysmian Group

				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)		
QPNBS-8	T26162	0.980	24.9	424AN-04/ 15	474SW-55	474NP-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
QPNBS-6	T26163	1.200	30.5	424AN-04/ 15	474SW-56	474NP-15/ 20	02 = 3/4"	04 = 1/2" - 14 NPT
QPNBS-5	T26164	1.310	33.3	424AN-05	474SW-57	474NP-21/ 27	03 = 1"	07 = 3/4" - 14 NPT
QPNBS-4	T26165	1.350	34.3	424AN-05	474SW-57	474NP-21/ 27	04 = 1-1/4"	05 = 1/2" - 14 NPT
QPNBS-3	T26166	1.420	36.1	424AN-06	474SW-57	474NP-21/ 27	05 = 1-1/2"	08 = 3/4" - 14 NPT
QPNBS-2	T26167	1.500	38.1	424AN-06	474SW-58	474NP-28/ 31	06 = 2"	10 = 3/4" - 14 NPT
QPNBS-1	T26168	1.790	45.5	424AN-06	474SW-59	474NP-32	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
QPNBS-1/0	T26169	1.930	49.0	424AN-07	474SW-59	474NP-32	08 = 3"	15 = 1" - 11-1/2 NPT
QPNBS-2/0	T26170	2.070	52.6	424AN-07	474SW-60	474NP-33	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
QPNBS-3/0	T26171	2.360	59.9	424AN-08	474SW-61	474NP-38	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
QPNBS-4/0	T26172	2.480	63.0	424AN-08	474SW-61	474NP-38	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
							15 = 1"	28 = 1-1/2" - 11-1/2 NPT
								31 = 2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								33 = 2" - 11-1/2 NPT
								38 = 2 1/2" - 8 NPT
								39 = 2 1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

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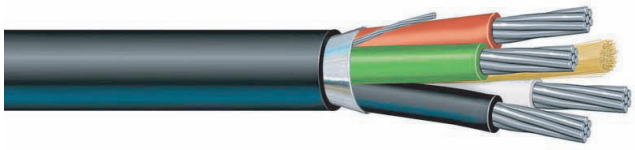
BOSTRIG™ TYPE P SIGNAL CABLE 600V

Overall shielded multiconductor / **unarmored**
TYPE P SIGNAL CABLE **600V, 20, 18 & 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 Class 1, Division 2 and Zone 2 hazardous locations offshore
- 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

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

CONDUCTORS: 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.

SHIELD: An aluminum/polyester tape with drain wire, 100% coverage, is applied over the cabled core.

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.

BOSTRIG™ TYPE P SIGNAL CABLE 600V

Overall shielded multiconductor / **unarmored**

TYPE P SIGNAL CABLE **600V, 20, 18 & 16 AWG**

A brand of the Prysmian Group

20 AWG • 0.61 mm²

Type Designation	Draka Number	Number of Conductors	Stranding	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
				in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
C(OS)20PN-3	T26491	3	19/32	0.030	0.760	0.060	1.5	0.340	8.6	65	95
C(OS)20PN-4	T26492	4	19/32	0.030	0.760	0.060	1.5	0.370	9.4	80	120
C(OS)20PN-5	T26493	5	19/32	0.030	0.760	0.060	1.5	0.400	10.2	90	135
C(OS)20PN-6	T26494	6	19/32	0.030	0.760	0.060	1.5	0.430	10.9	105	155

18 AWG • 0.96 mm²

Type Designation	Draka Number	Number of Conductors	Stranding	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
				in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
C(OS)18PN-3	------	3	19/30	.030	0.76	0.060	1.5	0.360	9.1	80	120
C(OS)18PN-4	T26496	4	19/30	.030	0.76	0.060	1.5	0.400	10.2	95	140
C(OS)18PN-5	T26497	5	19/30	.030	0.76	0.060	1.5	0.430	10.9	115	170
C(OS)18PN-6	T26498	6	19/30	.030	0.76	0.060	1.5	0.460	11.7	130	195
C(OS)18PN-25	------	25	19/30	.030	0.76	0.060	1.5	0.800	20.3	395	590

16 AWG • 1.23 mm²

Type Designation	Draka Number	Number of Conductors	Stranding	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
				in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
C(OS)16PN-3	T30645	3	19/29	.030	0.76	0.060	1.5	0.390	9.9	90	135
C(OS)16PN-4	T26500	4	19/29	.030	0.76	0.060	1.5	0.410	10.4	110	165
C(OS)16PN-5	T26501	5	19/29	.030	0.76	0.060	1.5	0.450	11.4	130	195
C(OS)16PN-6	T26502	6	19/29	.030	0.76	0.060	1.5	0.480	12.2	150	225
C(OS)16PN-12	T27052	12	19/29	.030	0.76	0.060	1.5	0.620	15.7	255	380

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.

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BOSTRIG™ TYPE P SIGNAL CABLE 600V

Overall shielded multiconductor / **unarmored**
TYPE P SIGNAL CABLE **600V, 20, 18 & 16 AWG**

A brand of the Prysmian Group

20 AWG • 0.61 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored
		in	mm		(metric)	(NPT)
C(0S)20PN-3	T26491	0.340	8.6	424UB-01	494AB-52/ 53	494NE-04/ 05/ 08
C(0S)20PN-4	T26492	0.370	9.4	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08
C(0S)20PN-5	T26493	0.400	10.2	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08
C(0S)20PN-6	T26494	0.430	10.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08

18 AWG • 0.96 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored
		in	mm		(metric)	(NPT)
C(0S)18PN-3	------	0.360	9.1	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08
C(0S)18PN-4	T26496	0.400	10.2	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08
C(0S)18PN-5	T26497	0.430	10.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08
C(0S)18PN-6	T26498	0.460	11.7	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14

16 AWG • 1.23 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored
		in	mm		(metric)	(NPT)
C(0S)16PN-3	T30645	0.390	9.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08
C(0S)16PN-4	T26500	0.410	10.4	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08
C(0S)16PN-5	T26501	0.450	11.4	424UB-02	494AB-53	494NE-05/ 08
C(0S)16PN-6	T26502	0.480	12.2	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14
C(0S)16PN-12	T27052	0.620	15.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14

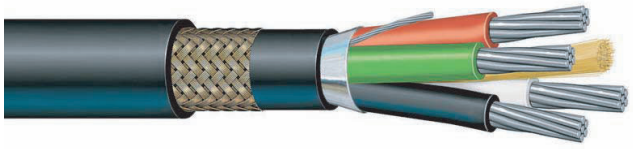
GLAND REFERENCE CHART

Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
01 = 1/2"	03 = 1/2" - 14 NPT
02 = 3/4"	04 = 1/2" - 14 NPT
03 = 1"	07 = 3/4" - 14 NPT
04 = 1-1/4"	05 = 1/2" - 14 NPT
05 = 1-1/2"	08 = 3/4" - 14 NPT
06 = 2"	10 = 3/4" - 14 NPT
07 = 2-1/2"	14 = 1" - 11-1/2 NPT
08 = 3"	15 = 1" - 11-1/2 NPT
09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
15 = 1"	28 = 1-1/2" - 11-1/2 NPT
	31 = 2" - 11-1/2 NPT
	32 = 2" - 11-1/2 NPT
	33 = 2" - 11-1/2 NPT
	38 = 2-1/2" - 8 NPT
	39 = 2-1/2" - 8 NPT
	45 = 3" - 8 NPT
	47 = 3" - 8 NPT

Draka

BOSTRIG™ TYPE P SIGNAL CABLE 600V

Overall shielded multiconductor / **armored and sheathed**
TYPE P SIGNAL CABLE **600V, 20, 18 & 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
- 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

CONDUCTORS: 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.

SHIELD: An aluminum/polyester tape with drain wire, 100% coverage, is applied over the cabled core.

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.

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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BOSTRIG™ TYPE P SIGNAL CABLE 600V

Overall shielded multiconductor / **armored and sheathed**
TYPE P SIGNAL CABLE **600V, 20, 18 & 16 AWG**

A brand of the Prysmian Group

20 AWG • 0.61 mm²

Type Designation	Draka Number	Number of Conductors	Stranding	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
				in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
C(0S)20PNBS-3	T26503	3	19/32	.030	0.76	0.060	1.5	0.530	13.5	185	275
C(0S)20PNBS-4	T26504	4	19/32	.030	0.76	0.060	1.5	0.560	14.2	210	315
C(0S)20PNBS-5	T26505	5	19/32	.030	0.76	0.060	1.5	0.590	15.0	230	340
C(0S)20PNBS-6	T26506	6	19/32	.030	0.76	0.060	1.5	0.610	15.5	255	380

18 AWG • 0.96 mm²

Type Designation	Draka Number	Number of Conductors	Stranding	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
				in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
C(0S)18PNBS-3	T26507	3	19/30	.030	0.76	0.060	1.5	0.540	13.7	205	305
C(0S)18PNBS-4	T26508	4	19/30	.030	0.76	0.060	1.5	0.570	14.5	230	340
C(0S)18PNBS-5	T26509	5	19/30	.030	0.76	0.060	1.5	0.620	15.7	260	385
C(0S)18PNBS-6	T26510	6	19/30	.030	0.76	0.060	1.5	0.630	16.0	286	425
C(0S)18PNBS-25	------	25	19/30	.030	0.76	0.080	2.0	1.110	28.2	705	1050

16 AWG • 1.23 mm²

Type Designation	Draka Number	Number of Conductors	Stranding	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
				in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
C(0S)16PNBS-3	T26511	3	19/29	.030	0.76	0.060	1.5	0.570	14.5	220	325
C(0S)16PNBS-4	T26512	4	19/29	.030	0.76	0.060	1.5	0.600	15.2	255	380
C(0S)16PNBS-5	T26513	5	19/29	.030	0.76	0.060	1.5	0.640	16.3	285	425
C(0S)16PNBS-6	T26514	6	19/29	.030	0.76	0.060	1.5	0.670	17.0	315	470
C(0S)16PNBS-12	------	12	19/29	.030	0.76	0.060	1.5	0.820	20.8	470	700

This information is provided for reference only. Please consult the factory or your representative to confirm all engineering information.
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BOSTRIG™ TYPE P SIGNAL CABLE 600V

Overall shielded multiconductor / **armored and sheathed**
TYPE P SIGNAL CABLE **600V, 20, 18 & 16 AWG**

A brand of the Prysmian Group

20 AWG • 0.61 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored
		in	mm		(metric)	(NPT)
C(0S)20PNBS-3	T26503	0.530	13.5	424AN-02/ 10	474SW-52	474NP-04/ 07
C(0S)20PNBS-4	T26504	0.560	14.2	424AN-02/ 10	474SW-52	474NP-04/ 07
C(0S)20PNBS-5	T26505	0.590	15.0	424AN-02/ 10	474SW-53	474NP-05/ 08
C(0S)20PNBS-6	T26506	0.610	15.5	424AN-02/ 10	474SW-53	474NP-05/ 08

18 AWG • 0.96 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored
		in	mm		(metric)	(NPT)
C(0S)18PNBS-3	T26507	0.540	13.7	424AN-02/ 10	474SW-52	474NP-04/ 07
C(0S)18PNBS-4	T26508	0.570	14.5	424AN-02/ 10	474SW-52	474NP-04/ 07
C(0S)18PNBS-5	T26509	0.620	15.7	424AN-02/ 10	474SW-53	474NP-05/ 08
C(0S)18PNBS-6	T26510	0.630	16.0	424AN-02/ 10	474SW-53	474NP-05/ 08

16 AWG • 1.23 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored
		in	mm		(metric)	(NPT)
C(0S)16PNBS-3	T26511	0.570	14.5	424AN-02/ 10	474SW-52	474NP-04/ 07
C(0S)16PNBS-4	T26512	0.600	15.2	424AN-02/ 10	474SW-53	474NP-05/ 08
C(0S)16PNBS-5	T26513	0.640	16.3	424AN-02/ 10	474SW-53	474NP-05/ 08
C(0S)16PNBS-6	T26514	0.670	17.0	424AN-02/ 10	474SW-53	474NP-05/ 08

GLAND REFERENCE CHART

Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
01 = 1/2"	03 = 1/2" - 14 NPT
02 = 3/4"	04 = 1/2" - 14 NPT
03 = 1"	07 = 3/4" - 14 NPT
04 = 1-1/4"	05 = 1/2" - 14 NPT
05 = 1-1/2"	08 = 3/4" - 14 NPT
06 = 2"	10 = 3/4" - 14 NPT
07 = 2-1/2"	14 = 1" - 11-1/2 NPT
08 = 3"	15 = 1" - 11-1/2 NPT
09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
15 = 1"	28 = 1-1/2" - 11-1/2 NPT
	31 = 2" - 11-1/2 NPT
	32 = 2" - 11-1/2 NPT
	33 = 2" - 11-1/2 NPT
	38 = 2-1/2" - 8 NPT
	39 = 2-1/2" - 8 NPT
	45 = 3" - 8 NPT
	47 = 3" - 8 NPT

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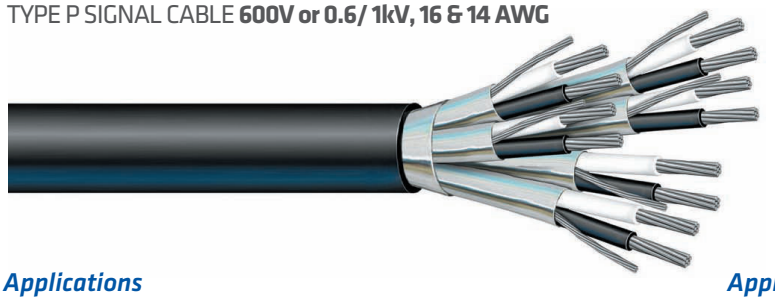
BOSTRIG™ TYPE P SIGNAL CABLE 600V OR 0.6/1kV

Individual and overall shielded multipair / **unarmored**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 16 & 14 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 Class 1, Division 2 and Zone 2 hazardous locations offshore
- 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

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

CONDUCTORS: 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.

SHIELD: An aluminum/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core. The single pair construction has only the overall shield and drain wire.

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

Individual and overall shielded multipair / **unarmored**

TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 16 & 14 AWG**

A brand of the Prysmian Group

16 AWG • 1.23 mm²

Type Designation	Draka Number	Number of Pairs	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
TP(0S)16PN-1	T26364	1	.030	0.76	0.060	1.5	0.360	9.1	75	110
TP(I/S-0S)16PN-2	T26365	2	.030	0.76	0.060	1.5	0.580	14.7	160	240
TP(I/S-0S)16PN-3	T26366	3	.030	0.76	0.060	1.5	0.620	15.7	210	315
TP(I/S-0S)16PN-4	T26367	4	.030	0.76	0.060	1.5	0.670	17.0	250	370
TP(I/S-0S)16PN-5	T26368	5	.030	0.76	0.060	1.5	0.750	19.1	295	440
TP(I/S-0S)16PN-6	T26369	6	.030	0.76	0.060	1.5	0.790	20.1	375	560
TP(I/S-0S)16PN-7	T26370	7	.030	0.76	0.060	1.5	0.790	20.1	365	545
TP(I/S-0S)16PN-8	T26371	8	.030	0.76	0.080	2.0	0.900	22.9	485	720
TP(I/S-0S)16PN-10	T26372	10	.030	0.76	0.080	2.0	1.020	25.9	545	810
TP(I/S-0S)16PN-12	T26373	12	.030	0.76	0.080	2.0	1.030	26.2	625	930
TP(I/S-0S)16PN-16	T26374	16	.030	0.76	0.080	2.0	1.180	30.0	795	1,185
TP(I/S-0S)16PN-20	T26375	20	.030	0.76	0.080	2.0	1.310	33.3	1,085	1,615
TP(I/S-0S)16PN-24	T26376	24	.030	0.76	0.080	2.0	1.420	36.1	1,,,130	1,680

14 AWG • 1.94 mm²

Type Designation	Draka Number	Number of Pairs	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
TP(0S)14PN-1	T26377	1	.030	0.76	0.060	1.5	0.390	9.9	90	135
TP(I/S-0S)14PN-2	T26378	2	.030	0.76	0.060	1.5	0.640	16.3	195	290
TP(I/S-0S)14PN-3	T26379	3	.030	0.76	0.060	1.5	0.670	17.0	275	410
TP(I/S-0S)14PN-4	T26380	4	.030	0.76	0.060	1.5	0.730	18.5	320	475
TP(I/S-0S)14PN-5	T26381	5	.030	0.76	0.060	1.5	0.810	20.6	345	515
TP(I/S-0S)14PN-6	T26382	6	.030	0.76	0.080	2.0	0.920	23.4	450	670
TP(I/S-0S)14PN-7	T26383	7	.030	0.76	0.080	2.0	0.930	23.6	510	760
TP(I/S-0S)14PN-8	T26384	8	.030	0.76	0.080	2.0	0.970	24.6	620	925
TP(I/S-0S)14PN-10	T26385	10	.030	0.76	0.080	2.0	1.130	28.7	710	1,055
TP(I/S-0S)14PN-12	T26386	12	.030	0.76	0.080	2.0	1.170	29.7	805	1,200
TP(I/S-0S)14PN-16	T26387	16	.030	0.76	0.080	2.0	1.300	33.0	975	1,450
TP(I/S-0S)14PN-20	T26388	20	.030	0.76	0.080	2.0	1.490	37.8	1,280	1,905
TP(I/S-0S)14PN-24	T26389	24	.030	0.76	0.080	2.0	1.650	41.9	1,515	2,255

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

Individual and overall shielded multipair / **unarmored**

TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 16 & 14 AWG**

A brand of the Prysmian Group

16 AWG • 1.23 mm²

				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)		
TP(0S)16PN-1	T26364	0.360	9.1	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
TP(I/S-0S)16PN-2	T26365	0.580	14.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	02 = 1/2"	04 = 1/2" - 14 NPT
TP(I/S-0S)16PN-3	T26366	0.620	15.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	03 = 3/4"	05 = 1/2" - 14 NPT
TP(I/S-0S)16PN-4	T26367	0.670	17.0	424UB-03/ 04	494AB-55	494NE-10/ 14	04 = 1"	08 = 3/4" - 14 NPT
TP(I/S-0S)16PN-5	T26368	0.750	19.1	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	05 = 1-1/4"	10 = 3/4" - 14 NPT
TP(I/S-0S)16PN-6	T26369	0.790	20.1	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
TP(I/S-0S)16PN-7	T26370	0.790	20.1	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	06 = 2"	15 = 1" - 11-1/2 NPT
TP(I/S-0S)16PN-8	T26371	0.900	22.9	424UB-04	494AB-56	494NE-15/ 20	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)16PN-10	T26372	1.020	25.9	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)16PN-12	T26373	1.030	26.2	424UB-04/ 05/ 15	494AB-56/ 56	494NE-15/ 20/ 21/ 27	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
TP(I/S-0S)16PN-16	T26374	1.180	30.0	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27		32 = 2" - 11-1/2 NPT
TP(I/S-0S)16PN-20	T26375	1.310	33.3	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32		38 = 2-1/2" - 8 NPT
TP(I/S-0S)16PN-24	T26376	1.420	36.1	424UB-06	494AB-59	494NE-32		44 = 3" - 8 NPT
								45 = 3" - 8 NPT

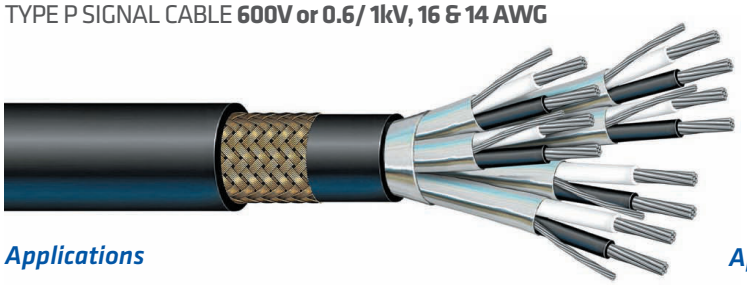
14 AWG • 1.94 mm²

				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)		
TP(0S)14PN-1	T26377	0.390	9.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
TP(I/S-0S)14PN-2	T26378	0.640	16.3	424UB-03	494AB-55	494NE-10/ 14	02 = 1/2"	04 = 1/2" - 14 NPT
TP(I/S-0S)14PN-3	T26379	0.670	17.0	424UB-03/ 04	494AB-55	494NE-10/ 14	03 = 3/4"	05 = 1/2" - 14 NPT
TP(I/S-0S)14PN-4	T26380	0.730	18.5	424UB-03/ 04	494AB-55	494NE-10/ 14	04 = 1"	08 = 3/4" - 14 NPT
TP(I/S-0S)14PN-5	T26381	0.810	20.6	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	05 = 1-1/4"	10 = 3/4" - 14 NPT
TP(I/S-0S)14PN-6	T26382	0.920	23.4	424UB-04	494AB-56	494NE-15/ 20	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
TP(I/S-0S)14PN-7	T26383	0.930	23.6	424UB-04	494AB-56	494NE-15/ 20	06 = 2"	15 = 1" - 11-1/2 NPT
TP(I/S-0S)14PN-8	T26384	0.970	24.6	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)14PN-10	T26385	1.130	28.7	424UB-05/ 15	494AB-57	494NE-21/ 27	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)14PN-12	T26386	1.170	29.7	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
TP(I/S-0S)14PN-16	T26387	1.300	33.0	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32		32 = 2" - 11-1/2 NPT
TP(I/S-0S)14PN-20	T26388	1.490	37.8	424UB-06	494AB-59	494NE-32		38 = 2-1/2" - 8 NPT
TP(I/S-0S)14PN-24	T26389	1.650	41.9	424UB-06/07	494AB-61	494NE-38		44 = 3" - 8 NPT
								45 = 3" - 8 NPT

Draka

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

Individual and overall shielded multipair / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 16 & 14 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
- 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

CONDUCTORS: 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.

SHIELD: An aluminum/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core. The single pair construction has only the overall shield and drain wire.

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.

Draka Marine, Oil & Gas
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website: na.prysmiangroup.com/oil-gas

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

Individual and overall shielded multipair / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 16 & 14 AWG**

A brand of the Prysmian Group

16 AWG • 1.23 mm²

Type Designation	Draka Number	Number of Pairs	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Character Impedance		Inductance		Capacitance		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	Lbs/Mft	Kg/Km
TP(0S)16PNBS-1	T26429	1	.030	0.76	0.060	1.5	0.540	13.7	68	223	0.12	39	25	82	200	300
TP(I/S-0S)16PNBS-2	T26430	2	.030	0.76	0.060	1.5	0.770	19.6	68	223	0.12	39	25	82	360	535
TP(I/S-0S)16PNBS-3	T26431	3	.030	0.76	0.060	1.5	0.800	20.3	68	223	0.12	39	25	82	420	625
TP(I/S-0S)16PNBS-4	T26432	4	.030	0.76	0.080	2.0	0.900	22.9	68	223	0.12	39	25	82	520	775
TP(I/S-0S)16PNBS-5	T26433	5	.030	0.76	0.080	2.0	0.980	24.9	68	223	0.12	39	25	82	590	880
TP(I/S-0S)16PNBS-6	T26434	6	.030	0.76	0.080	2.0	1.030	26.2	68	223	0.12	39	25	82	610	910
TP(I/S-0S)16PNBS-7	T26435	7	.030	0.76	0.080	2.0	1.010	25.7	68	223	0.12	39	25	82	670	995
TP(I/S-0S)16PNBS-8	T26436	8	.030	0.76	0.080	2.0	1.140	29.0	68	223	0.12	39	25	82	855	1,270
TP(I/S-0S)16PNBS-10	T26437	10	.030	0.76	0.080	2.0	1.240	31.5	68	223	0.12	39	25	82	945	1,405
TP(I/S-0S)16PNBS-12	T26438	12	.030	0.76	0.080	2.0	1.250	31.8	68	223	0.12	39	25	82	1,030	1,535
TP(I/S-0S)16PNBS-16	T26439	16	.030	0.76	0.080	2.0	1.400	35.6	68	223	0.12	39	25	82	1,275	1,895
TP(I/S-0S)16PNBS-20	T26440	20	.030	0.76	0.110	2.8	1.770	45.0	68	223	0.12	39	25	82	1,785	2,655
TP(I/S-0S)16PNBS-24	T26441	24	.030	0.76	0.110	2.8	1.810	46.0	68	223	0.12	39	25	82	1,730	2,575

14 AWG • 1.94 mm²

Type Designation	Draka Number	Number of Pairs	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Character Impedance		Inductance		Capacitance		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	Lbs/Mft	Kg/Km
TP(0S)14PNBS-1	T26693	1	.030	0.76	0.060	1.5	0.580	14.7	60	197	0.10	33	28	92	235	350
TP(I/S-0S)14PNBS-2	T26443	2	.030	0.76	0.060	1.5	0.820	20.8	68	223	0.12	39	25	82	410	610
TP(I/S-0S)14PNBS-3	T26444	3	.030	0.76	0.080	2.0	0.890	22.6	68	223	0.12	39	25	82	535	795
TP(I/S-0S)14PNBS-4	T26445	4	.030	0.76	0.080	2.0	0.960	24.4	68	223	0.12	39	25	82	605	900
TP(I/S-0S)14PNBS-5	T26446	5	.030	0.76	0.080	2.0	1.030	26.2	68	223	0.12	39	25	82	650	965
TP(I/S-0S)14PNBS-6	T26447	6	.030	0.76	0.080	2.0	1.140	29.0	68	223	0.12	39	25	82	780	1,160
TP(I/S-0S)14PNBS-7	T26448	7	.030	0.76	0.080	2.0	1.150	29.2	68	223	0.12	39	25	82	875	1,300
TP(I/S-0S)14PNBS-8	T26449	8	.030	0.76	0.080	2.0	1.190	30.2	68	223	0.12	39	25	82	995	1,480
TP(I/S-0S)14PNBS-10	T26450	10	.030	0.76	0.080	2.0	1.290	32.8	68	223	0.12	39	25	82	1,030	1,535
TP(I/S-0S)14PNBS-12	T26451	12	.030	0.76	0.080	2.0	1.380	35.1	68	223	0.12	39	25	82	1,260	1,875
TP(I/S-0S)14PNBS-16	T26452	16	.030	0.76	0.080	2.0	1.520	38.6	68	223	0.12	39	25	82	1,525	2,270
TP(I/S-0S)14PNBS-20	T26453	20	.030	0.76	0.110	2.8	1.800	45.7	68	223	0.12	39	25	82	1,960	2,915
TP(I/S-0S)14PNBS-24	T26454	24	.030	0.76	0.110	2.8	1.950	49.5	68	223	0.12	39	25	82	2,440	3,630

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.

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

Individual and overall shielded multipair / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 16 & 14 AWG**

A brand of the Prysmian Group

16 AWG • 1.23 mm²

				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)		
TP(0S)16PNBS-1	T26429	0.540	13.7	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
TP(I/S-0S)16PNBS-2	T26430	0.770	19.6	424AN-03/ 12	474SW-55	474NP-10/ 14	02 = 3/4"	04 = 1/2" - 14 NPT
TP(I/S-0S)16PNBS-3	T26431	0.800	20.3	424AN-03/ 12	474SW-55	474NP-10/ 14	03 = 1"	07 = 3/4" - 14 NPT
TP(I/S-0S)16PNBS-4	T26432	0.900	22.9	424AN-04/ 15	474SW-55	474NP-10/ 14	04 = 1-1/4"	05 = 1/2" - 14 NPT
TP(I/S-0S)16PNBS-5	T26433	0.980	24.9	424AN-04/ 15	474SW-55	474NP-10/ 14	05 = 1-1/2"	08 = 3/4" - 14 NPT
TP(I/S-0S)16PNBS-6	T26434	1.030	26.2	424AN-04/ 15	474SW-56	474NP-15/ 20	06 = 2"	10 = 3/4" - 14 NPT
TP(I/S-0S)16PNBS-7	T26435	1.010	25.7	424AN-04/ 15	474SW-56	474NP-15/ 20	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
TP(I/S-0S)16PNBS-8	T26436	1.140	29.0	424AN-05	474SW-56	474NP-15/ 20	08 = 3"	15 = 1" - 11-1/2 NPT
TP(I/S-0S)16PNBS-10	T26437	1.240	31.5	424AN-05	474SW-56	474NP-15/ 20	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)16PNBS-12	T26438	1.250	31.8	424AN-05	474SW-57	474NP-21/ 27	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)16PNBS-16	T26439	1.400	35.6	424AN-05	474SW-57	474NP-21/ 27	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
TP(I/S-0S)16PNBS-20	T26440	1.770	45.0	424AN-06	474SW-58	474NP-28/ 31	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
TP(I/S-0S)16PNBS-24	T26441	1.810	46.0	424AN-06	474SW-59	474NP-32		31 = 2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								33 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

14 AWG • 1.94 mm²

				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)		
TP(0S)14PNBS-1	T26693	0.580	14.7	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
TP(I/S-0S)14PNBS-2	T26443	0.820	20.8	424AN-03/ 12	474SW-55	474NP-10/ 14	02 = 3/4"	04 = 1/2" - 14 NPT
TP(I/S-0S)14PNBS-3	T26444	0.890	22.6	424AN-03/ 04/ 12/ 15	474SW-55	474NP-10/ 14	03 = 1"	07 = 3/4" - 14 NPT
TP(I/S-0S)14PNBS-4	T26445	0.960	24.4	424AN-04/ 15	474SW-55	474NP-10/ 14	04 = 1-1/4"	05 = 1/2" - 14 NPT
TP(I/S-0S)14PNBS-5	T26446	1.030	26.2	424AN-04/ 15	474SW-56	474NP-15/ 20	05 = 1-1/2"	08 = 3/4" - 14 NPT
TP(I/S-0S)14PNBS-6	T26447	1.140	29.0	424AN-05	474SW-56	474NP-15/ 20	06 = 2"	10 = 3/4" - 14 NPT
TP(I/S-0S)14PNBS-7	T26448	1.150	29.2	424AN-05	474SW-56	474NP-15/ 20	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
TP(I/S-0S)14PNBS-8	T26449	1.190	30.2	424AN-05	474SW-56	474NP-15/ 20	08 = 3"	15 = 1" - 11-1/2 NPT
TP(I/S-0S)14PNBS-10	T26450	1.290	32.8	424AN-05	474SW-57	474NP-21/ 27	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)14PNBS-12	T26451	1.380	35.1	424AN-05	474SW-57	474NP-21/ 27	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)14PNBS-16	T26452	1.520	38.6	424AN-06	474SW-57	474NP-21/ 27	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
TP(I/S-0S)14PNBS-20	T26453	1.800	45.7	424AN-06	474SW-58	474NP-28/ 31	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
TP(I/S-0S)14PNBS-24	T26454	1.950	49.5	424AN-07	474SW-59	474NP-32		31 = 2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								33 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

Draka Marine, Oil & Gas
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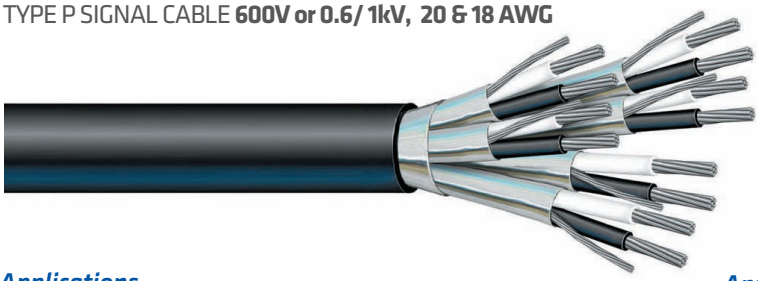
website: na.prysmiangroup.com/oil-gas

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

Individual and overall shielded multipair / **unarmored**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 20 & 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 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, mud, 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 Class 1, Division 2 and Zone 2 hazardous locations offshore
- 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 as Type TC (#18 AWG)

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

CONDUCTORS: 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.

SHIELD: An aluminum/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core. The single pair construction has only the overall shield and drain wire.

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.

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

Individual and overall shielded multipair / **unarmored**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 20 & 18 AWG**

A brand of the Prysmian Group

20 AWG • 0.61 mm²

Type Designation	Draka Number	Number of Pairs	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
TP(0S)20PN-1	T26338	1	.030	0.76	0.060	1.5	0.340	8.6	60	90
TP(I/S-0S)20PN-2	T26339	2	.030	0.76	0.060	1.5	0.520	13.2	130	195
TP(I/S-0S)20PN-3	T26340	3	.030	0.76	0.060	1.5	0.550	14.0	150	225
TP(I/S-0S)20PN-4	T26341	4	.030	0.76	0.060	1.5	0.600	15.2	185	275
TP(I/S-0S)20PN-5	T26342	5	.030	0.76	0.060	1.5	0.650	16.5	215	320
TP(I/S-0S)20PN-6	T26343	6	.030	0.76	0.060	1.5	0.700	17.8	215	320
TP(I/S-0S)20PN-7	T26344	7	.030	0.76	0.060	1.5	0.700	17.8	230	340
TP(I/S-0S)20PN-8	T26345	8	.030	0.76	0.060	1.5	0.760	19.3	290	430
TP(I/S-0S)20PN-10	T26346	10	.030	0.76	0.080	2.0	0.900	22.9	360	535
TP(I/S-0S)20PN-12	T26347	12	.030	0.76	0.080	2.0	0.930	23.6	440	655
TP(I/S-0S)20PN-16	T26348	16	.030	0.76	0.080	2.0	1.030	26.2	510	760
TP(I/S-0S)20PN-20	T26349	20	.030	0.76	0.080	2.0	1.130	28.7	600	895
TP(I/S-0S)20PN-24	T26350	24	.030	0.76	0.080	2.0	1.360	34.5	830	1,235

18 AWG • 0.96 mm²

Type Designation	Draka Number	Number of Pairs	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
TP(0S)18PN-1	------	1	.030	0.76	0.060	1.5	0.350	8.9	65	95
TP(I/S-0S)18PN-2	T26352	2	.030	0.76	0.060	1.5	0.530	13.5	135	200
TP(I/S-0S)18PN-3	T26353	3	.030	0.76	0.060	1.5	0.590	15.0	190	285
TP(I/S-0S)18PN-4	T26354	4	.030	0.76	0.060	1.5	0.640	16.3	215	320
TP(I/S-0S)18PN-5	T26355	5	.030	0.76	0.060	1.5	0.700	17.8	255	380
TP(I/S-0S)18PN-6	T26356	6	.030	0.76	0.060	1.5	0.750	19.1	295	440
TP(I/S-0S)18PN-7	T26357	7	.030	0.76	0.060	1.5	0.760	19.3	340	505
TP(I/S-0S)18PN-8	T26358	8	.030	0.76	0.060	1.5	0.820	20.8	360	535
TP(I/S-0S)18PN-10	T26359	10	.030	0.76	0.080	2.0	0.970	24.6	480	715
TP(I/S-0S)18PN-12	T26360	12	.030	0.76	0.080	2.0	0.970	24.6	530	790
TP(I/S-0S)18PN-16	T26361	16	.030	0.76	0.080	2.0	1.110	28.2	685	1,020
TP(I/S-0S)18PN-20	T26362	20	.030	0.76	0.080	2.0	1.220	31.0	835	1,245
TP(I/S-0S)18PN-24	T26363	24	.030	0.76	0.080	2.0	1.380	35.1	980	1,460

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This information is not intended to replace the information in the appropriate and applicable standard or code.

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website: na.prysmiangroup.com/oil-gas

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

Individual and overall shielded multipair / **unarmored**

TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 20 & 18 AWG**

A brand of the Prysmian Group

20 AWG • 0.61 mm²

				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)		
TP(0S)20PN-1	T26338	0.340	8.6	424UB-01	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
TP(I/S-0S)20PN-2	T26339	0.520	13.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	02 = 1/2"	04 = 1/2" - 14 NPT
TP(I/S-0S)20PN-3	T26340	0.550	14.0	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	03 = 3/4"	05 = 1/2" - 14 NPT
TP(I/S-0S)20PN-4	T26341	0.600	15.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	04 = 1"	08 = 3/4" - 14 NPT
TP(I/S-0S)20PN-5	T26342	0.650	16.5	424UB-03	494AB-55	494NE-10/ 14	05 = 1-1/4"	10 = 3/4" - 14 NPT
TP(I/S-0S)20PN-6	T26343	0.700	17.8	424UB-03/ 04	494AB-55	494NE-10/ 14	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
TP(I/S-0S)20PN-7	T26344	0.700	17.8	424UB-03/ 04	494AB-55	494NE-10/ 14	06 = 2"	15 = 1" - 11-1/2 NPT
TP(I/S-0S)20PN-8	T26345	0.760	19.3	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)20PN-10	T26346	0.900	22.9	424UB-04	494B-56	494NE-15/ 20	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)20PN-12	T26347	0.930	23.6	424UB-04	494AB-56	494NE-15/ 20	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
TP(I/S-0S)20PN-16	T26348	1.030	26.2	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	------	32 = 2" - 11-1/2 NPT
TP(I/S-0S)20PN-20	T26349	1.130	28.7	424UB-05/ 15	494AB-57	494NE-21/ 27	------	38 = 2-1/2" - 8 NPT
TP(I/S-0S)20PN-24	T26350	1.360	34.5	424UB-06	494AB-59	494NE-32	------	44 = 3" - 8 NPT
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18 AWG • 0.96 mm²

				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)		
TP(0S)18PN-1	-----	0.350	8.9	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
TP(I/S-0S)18PN-2	T26352	0.530	13.5	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	02 = 1/2"	04 = 1/2" - 14 NPT
TP(I/S-0S)18PN-3	T26353	0.590	15.0	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	03 = 3/4"	05 = 1/2" - 14 NPT
TP(I/S-0S)18PN-4	T26354	0.640	16.3	424UB-03	494AB-55	494NE-10/ 14	04 = 1"	08 = 3/4" - 14 NPT
TP(I/S-0S)18PN-5	T26355	0.700	17.8	424UB-03/ 04	494AB-55	494NE-10/ 14	05 = 1-1/4"	10 = 3/4" - 14 NPT
TP(I/S-0S)18PN-6	T26356	0.750	19.1	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
TP(I/S-0S)18PN-7	T26357	0.760	19.3	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	06 = 2"	15 = 1" - 11-1/2 NPT
TP(I/S-0S)18PN-8	T26358	0.820	20.8	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)18PN-10	T26359	0.970	24.6	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
TP(I/S-0S)18PN-12	T26360	0.970	24.6	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
TP(I/S-0S)18PN-16	T26361	1.110	28.2	424UB-05/ 15	494AB-57	494NE-21/ 27	------	32 = 2" - 11-1/2 NPT
TP(I/S-0S)18PN-20	T26362	1.220	31.0	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	------	38 = 2-1/2" - 8 NPT
TP(I/S-0S)18PN-24	T26363	1.380	35.1	424UB-06	494AB-59	494NE-32	------	44 = 3" - 8 NPT
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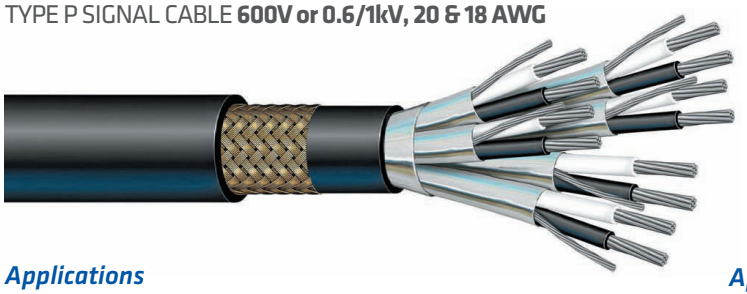
Draka

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

Individual and overall shielded multipair / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/1kV, 20 & 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 N0. 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

CONDUCTORS: 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.

SHIELD: An aluminum/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core. The single pair construction has only the overall shield and drain wire.

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.

ARMOR: Braided bronze in accordance with IEEE 1580 (2001).

SHEATH: Flame-Retardant Thermosetting CPE (Chlorinated Polyethylene) applied over the armor in accordance with the requirements of IEEE-1580-2010. Thickness as shown on tables on opposite page. Arctic Neoprene (Type N) also available as an option.

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

Individual and overall shielded multipair / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 20 & 18 AWG**

A brand of the Prysmian Group

20 AWG • 0.61 mm²

Type Designation	Draka Number	Number of Pairs	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Character Impedance		Inductance		Capacitance		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	Lbs/Mft	Kg/Km
TP(0S)20PNBS-1	T26403	1	.030	0.76	0.060	1.5	0.520	13.2	82	269	0.14	46	21	69	175	260
TP(I/S-0S)20PNBS-2	T26404	2	.030	0.76	0.060	1.5	0.600	15.2	82	269	0.14	46	21	69	235	350
TP(I/S-0S)20PNBS-3	T26405	3	.030	0.76	0.060	1.5	0.730	18.5	82	269	0.14	46	21	69	335	500
TP(I/S-0S)20PNBS-4	T26406	4	.030	0.76	0.060	1.5	0.790	20.1	82	269	0.14	46	21	69	385	575
TP(I/S-0S)20PNBS-5	T26407	5	.030	0.76	0.080	2.0	0.870	22.1	82	269	0.14	46	21	69	465	690
TP(I/S-0S)20PNBS-6	T26408	6	.030	0.76	0.080	2.0	0.930	23.6	82	269	0.14	46	21	69	510	760
TP(I/S-0S)20PNBS-7	T26409	7	.030	0.76	0.080	2.0	0.930	23.6	82	269	0.14	46	21	69	500	745
TP(I/S-0S)20PNBS-8	T26410	8	.030	0.76	0.080	2.0	0.980	24.9	82	269	0.14	46	21	69	585	870
TP(I/S-0S)20PNBS-10	T26411	10	.030	0.76	0.080	2.0	1.120	28.4	82	269	0.14	46	21	69	690	1,025
TP(I/S-0S)20PNBS-12	T26412	12	.030	0.76	0.080	2.0	1.150	29.2	82	269	0.14	46	21	69	800	1,190
TP(I/S-0S)20PNBS-16	T26413	16	.030	0.76	0.080	2.0	1.250	31.8	82	269	0.14	46	21	69	885	1,315
TP(I/S-0S)20PNBS-20	T26414	20	.030	0.76	0.080	2.0	1.370	34.8	82	269	0.14	46	21	69	1,135	1,690
TP(I/S-0S)20PNBS-24	T26415	24	.030	0.76	0.080	2.0	1.480	37.6	82	269	0.14	46	21	69	1,260	1,875

18 AWG • 0.96 mm²

Type Designation	Draka Number	Number of Pairs	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Character Impedance		Inductance		Capacitance		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	Lbs/Mft	Kg/Km
TP(0S)18PNBS-1	T26664	1	.030	0.76	0.060	1.5	0.530	13.5	73	239	0.13	43	2	75	190	285
TP(I/S-0S)18PNBS-2	T26417	2	.030	0.76	0.060	1.5	0.710	18.0	73	239	0.13	43	23	75	315	470
TP(I/S-0S)18PNBS-3	T26418	3	.030	0.76	0.060	1.5	0.770	19.6	73	239	0.13	43	23	75	390	580
TP(I/S-0S)18PNBS-4	T26419	4	.030	0.76	0.080	2.0	0.870	22.1	73	239	0.13	43	23	75	465	690
TP(I/S-0S)18PNBS-5	T26420	5	.030	0.76	0.080	2.0	0.920	23.4	73	239	0.13	43	23	75	530	790
TP(I/S-0S)18PNBS-6	T26421	6	.030	0.76	0.080	2.0	0.980	24.9	73	239	0.13	43	23	75	590	880
TP(I/S-0S)18PNBS-7	T26422	7	.030	0.76	0.080	2.0	0.980	24.9	73	239	0.13	43	23	75	605	900
TP(I/S-0S)18PNBS-8	T26423	8	.030	0.76	0.080	2.0	1.040	26.4	73	239	0.13	43	23	75	680	1,010
TP(I/S-0S)18PNBS-10	T26424	10	.030	0.76	0.080	2.0	1.190	30.2	73	239	0.13	43	23	75	855	1,270
TP(I/S-0S)18PNBS-12	T26425	12	.030	0.76	0.080	2.0	1.210	30.7	73	239	0.13	43	23	75	925	1,375
TP(I/S-0S)18PNBS-16	T26426	16	.030	0.76	0.080	2.0	1.340	34.0	73	239	0.13	43	23	75	1,120	1,665
TP(I/S-0S)18PNBS-20	T26427	20	.030	0.76	0.080	2.0	1.440	36.6	73	239	0.13	43	23	75	1,335	1,985
TP(I/S-0S)18PNBS-24	T26428	24	.030	0.76	0.080	2.0	1.600	40.6	73	239	0.13	43	23	75	1,540	2,290

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

Individual and overall shielded multipair / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/1kV, 20 & 18 AWG**

A brand of the Prysmian Group

20 AWG • 0.61 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored
		in	mm		(metric)	(NPT)
TP(0S)20PNBS-1	026403	0.520	13.2	424AN-02/10	474SW-52	474NP-04/ 07
TP(I/S-0S)20PNBS-2	026404	0.600	15.2	424AN-02/10	474SW-53	474NP-05/ 08
TP(I/S-0S)20PNBS-3	026405	0.730	18.5	424AN-03/ 12	474SW-53	474NP-05/ 08
TP(I/S-0S)20PNBS-4	026406	0.790	20.1	424AN-03/ 12	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-5	026407	0.870	22.1	424AN-04/ 15	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-6	026408	0.930	23.6	424AN-04/ 15	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-7	026409	0.930	23.6	424AN-04/ 15	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-8	026410	0.980	24.9	424AN-04/ 15	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-10	026411	1.120	28.4	424AN-04/ 15	474SW-56	474NP-15/ 20
TP(I/S-0S)20PNBS-12	026412	1.150	29.2	424AN-04/ 15	474SW-56	474NP-15/ 20
TP(I/S-0S)20PNBS-16	026413	1.250	31.8	424AN-05	474SW-57	474NP-21/ 27
TP(I/S-0S)20PNBS-20	026414	1.370	34.8	424AN-05	474SW-57	474NP-21/ 27
TP(I/S-0S)20PNBS-24	026415	1.480	37.6	424AN-05	474SW-57	474NP-21/ 27

18 AWG • 0.96 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored
		in	mm		(metric)	(NPT)
TP(0S)20PNBS-1	026403	0.520	13.2	424AN-02/10	474SW-52	474NP-04/ 07
TP(I/S-0S)20PNBS-2	026404	0.600	15.2	424AN-02/10	474SW-53	474NP-05/ 08
TP(I/S-0S)20PNBS-3	026405	0.730	18.5	424AN-03/ 12	474SW-53	474NP-05/ 08
TP(I/S-0S)20PNBS-4	026406	0.790	20.1	424AN-03/ 12	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-5	026407	0.870	22.1	424AN-04/ 15	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-6	026408	0.930	23.6	424AN-04/ 15	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-7	026409	0.930	23.6	424AN-04/ 15	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-8	026410	0.980	24.9	424AN-04/ 15	474SW-55	474NP-10/ 14
TP(I/S-0S)20PNBS-10	026411	1.120	28.4	424AN-04/ 15	474SW-56	474NP-15/ 20
TP(I/S-0S)20PNBS-12	026412	1.150	29.2	424AN-04/ 15	474SW-56	474NP-15/ 20
TP(I/S-0S)20PNBS-16	026413	1.250	31.8	424AN-05	474SW-57	474NP-21/ 27
TP(I/S-0S)20PNBS-20	026414	1.370	34.8	424AN-05	474SW-57	474NP-21/ 27
TP(I/S-0S)20PNBS-24	026415	1.480	37.6	424AN-05	474SW-57	474NP-21/ 27

GLAND REFERENCE CHART

Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
01 = 1/2"	03 = 1/2" - 14 NPT
02 = 3/4"	04 = 1/2" - 14 NPT
03 = 1"	07 = 3/4" - 14 NPT
04 = 1-1/4"	05 = 1/2" - 14 NPT
05 = 1-1/2"	08 = 3/4" - 14 NPT
06 = 2"	10 = 3/4" - 14 NPT
07 = 2-1/2"	14 = 1" - 11-1/2 NPT
08 = 3"	15 = 1" - 11-1/2 NPT
09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
15 = 1"	28 = 1-1/2" - 11-1/2 NPT
	31 = 2" - 11-1/2 NPT
	32 = 2" - 11-1/2 NPT
	33 = 2" - 11-1/2 NPT
	38 = 2-1/2" - 8 NPT
	39 = 2-1/2" - 8 NPT
	45 = 3" - 8 NPT
	47 = 3" - 8 NPT

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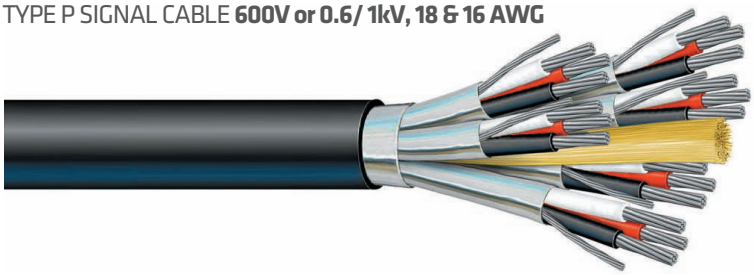
BOSTRIG™ TYPE P SIGNAL CABLE

Individual and overall shielded multi-triad / **unarmored**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 18 & 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 Class 1, Division 2 and Zone 2 hazardous locations offshore
- 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

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

CONDUCTORS: 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.

SHIELD: An aluminum/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core. The single pair construction has only the overall shield and drain wire.

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.

BOSTRIG™ TYPE P SIGNAL CABLE

Individual and overall shielded multi-triad / **unarmored**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 18 & 16 AWG**

A brand of the Prysmian Group

18 AWG • 0.96 mm²

Type Designation	Draka Number	Number of Triads	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
TT(0S)18PN-1	------	1	.030	0.76	0.060	1.5	0.360	9.1	75	110
TT(I/S-0S)18PN-2	T26456	2	.030	0.76	0.060	1.5	0.610	15.5	175	260
TT(I/S-0S)18PN-3	T26457	3	.030	0.76	0.060	1.5	0.640	16.3	210	315
TT(I/S-0S)18PN-4	T26458	4	.030	0.76	0.060	1.5	0.710	18.0	265	395
TT(I/S-0S)18PN-5	T26459	5	.030	0.76	0.060	1.5	0.780	19.8	315	470
TT(I/S-0S)18PN-6	T26460	6	.030	0.76	0.080	2.0	0.880	22.4	390	580
TT(I/S-0S)18PN-8	T26461	8	.030	0.76	0.080	2.0	0.960	24.4	505	750
TT(I/S-0S)18PN-12	T26462	12	.030	0.76	0.080	2.0	1.170	29.7	710	1,055
TT(I/S-0S)18PNBS-16	T26481	16	.030	0.76	0.080	2.0	1.510	38.4	1,450	2,160

16 AWG • 1.23 mm²

Type Designation	Draka Number	Number of Triads	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
TT(0S)16PN-1	T26625	1	.030	0.76	0.060	1.5	0.380	9.7	90	135
TT(I/S-0S)16PN-2	T26465	2	.030	0.76	0.060	1.5	0.630	16.0	195	290
TT(I/S-0S)16PN-3	T26466	3	.030	0.76	0.060	1.5	0.670	17.0	280	415
TT(I/S-0S)16PN-4	T26467	4	.030	0.76	0.060	1.5	0.710	18.0	325	485
TT(I/S-0S)16PN-5	T26468	5	.030	0.76	0.060	1.5	0.820	20.8	355	530
TT(I/S-0S)16PN-6	T26469	6	.030	0.76	0.080	2.0	0.870	22.1	465	690
TT(I/S-0S)16PN-8	T26470	8	.030	0.76	0.080	2.0	1.000	25.4	590	880
TT(I/S-0S)16PN-12	T26471	12	.030	0.76	0.080	2.0	1.210	30.7	845	1,255
TT(I/S-0S)16PN-16	T26472	16	.030	0.76	0.080	2.0	1.360	34.5	1,165	1,735

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.

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BOSTRIG™ TYPE P SIGNAL CABLE

Individual and overall shielded multi-triad / **unarmored**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 18 & 16 AWG**

A brand of the Prysmian Group

18 AWG • 0.96 mm²

				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)		
TT(0S)18PN-1	------	0.360	9.1	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
TT(I/S-0S)18PN-2	T26456	0.610	15.5	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	02 = 1/2"	04 = 1/2" - 14 NPT
TT(I/S-0S)18PN-3	T26457	0.640	16.3	424UB-03	494AB-55	494NE-10/ 14	03 = 3/4"	05 = 1/2" - 14 NPT
TT(I/S-0S)18PN-4	T26458	0.710	18.0	424UB-03/ 04	494AB-55	494NE-10/ 14	04 = 1"	08 = 3/4" - 14 NPT
TT(I/S-0S)18PN-5	T26459	0.780	19.8	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	05 = 1 1/4"	10 = 3/4" - 14 NPT
TT(I/S-0S)18PN-6	T26460	0.880	22.4	424UB-04	494AB-56	494NE-15/ 20	15 = 1 1/2"	14 = 1" - 11 1/2 NPT
TT(I/S-0S)18PN-8	T26461	0.960	24.4	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	06 = 2"	15 = 1" - 11 1/2 NPT
TT(I/S-0S)18PN-12	T26462	1.170	29.7	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	07 = 2 1/2"	20 = 1 1/4" - 11 1/2 NPT
							08 = 3"	21 = 1 1/4" - 11 1/2 NPT
							09 = 3 1/2"	27 = 1 1/2" - 11 1/2 NPT
								32 = 2" - 11 1/2 NPT
								38 = 2 1/2" - 8 NPT
								44 = 3" - 8 NPT
								45 = 3" - 8 NPT

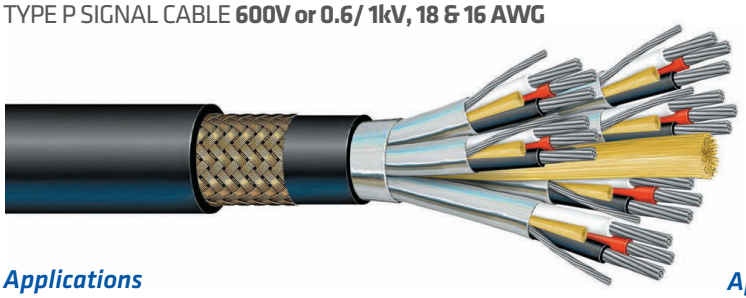
16 AWG • 1.23 mm²

				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)		
TT(0S)16PN-1	T26625	0.380	9.7	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	01 = 1/2"	03 = 1/2" - 14 NPT
TT(I/S-0S)16PN-2	T26465	0.630	16.0	424UB-03	494AB-55	494NE-10/ 14	02 = 1/2"	04 = 1/2" - 14 NPT
TT(I/S-0S)16PN-3	T26466	0.670	17.0	424UB-03/ 04	494AB-55	494NE-10/ 14	03 = 3/4"	05 = 1/2" - 14 NPT
TT(I/S-0S)16PN-4	T26467	0.710	18.0	424UB-03/ 04	494AB-55	494NE-10/ 14	04 = 1"	08 = 3/4" - 14 NPT
TT(I/S-0S)16PN-5	T26468	0.820	20.8	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	05 = 1-1/4"	10 = 3/4" - 14 NPT
TT(I/S-0S)16PN-6	T26469	0.870	22.1	424UB-04	494AB-56	494NE-15/ 20	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
TT(I/S-0S)16PN-8	T26470	1.000	25.4	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	06 = 2"	15 = 1" - 11-1/2 NPT
TT(I/S-0S)16PN-12	T26471	1.210	30.7	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
TT(I/S-0S)16PN-16	T26472	1.360	34.5	424UB-06	494AB-59	494NE-32	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
							09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								44 = 3" - 8 NPT
								45 = 3" - 8 NPT

Draka

BOSTRIG™ TYPE P SIGNAL CABLE

Individual and overall shielded multi-triad / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 18 & 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
- 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

CONDUCTORS: 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.

SHIELD: An aluminum/polyester tape with drain wire, 100% coverage, is applied over each twisted pair and the cabled core. The single pair construction has only the overall shield and drain wire.

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.

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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BOSTRIG™ TYPE P SIGNAL CABLE

Individual and overall shielded multi-triad / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 18 & 16 AWG**

A brand of the Prysmian Group

18 AWG • 0.96 mm²

Type Designation	Draka Number	Number of Triads	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
TT(0S)18PNBS-1	T26473	1	.030	0.76	0.060	1.5	0.550	14.0	210	315
TT(I/S-0S)18PNBS-2	T26474	2	.030	0.76	0.060	1.5	0.790	20.1	380	565
TT(I/S-0S)18PNBS-3	T26475	3	.030	0.76	0.060	1.5	0.850	21.6	430	640
TT(I/S-0S)18PNBS-4	T26476	4	.030	0.76	0.080	2.0	0.930	23.6	525	780
TT(I/S-0S)18PNBS-5	T26477	5	.030	0.76	0.080	2.0	1.000	25.4	590	880
TT(I/S-0S)18PNBS-6	T26478	6	.030	0.76	0.080	2.0	1.130	28.7	775	1,155
TT(I/S-0S)18PNBS-8	T26479	8	.030	0.76	0.080	2.0	1.180	30.0	870	1,295
TT(I/S-0S)18PNBS-12	T26480	12	.030	0.76	0.080	2.0	1.380	35.1	1,180	1,755
TT(I/S-0S)18PNBS-16	T26481	16	.030	0.76	0.080	2.0	1.510	38.4	1,450	2,160

16 AWG • 1.23 mm²

Type Designation	Draka Number	Number of Triads	Insulation Thickness		Sheath Thickness		Cable Diameter (nominal)		Cable Weight (approximate)	
			in	mm	in	mm	in	mm	Lbs/Mft	Kg/Km
TT(0S)16PNBS-1	T26716	1	.030	0.76	0.060	1.5	0.570	14.5	225	335
TT(I/S-0S)16PNBS-2	T26483	2	.030	0.76	0.060	1.5	0.810	20.6	410	610
TT(I/S-0S)16PNBS-3	T26484	3	.030	0.76	0.080	2.0	0.890	22.6	550	820
TT(I/S-0S)16PNBS-4	T26485	4	.030	0.76	0.080	2.0	0.940	23.9	610	910
TT(I/S-0S)16PNBS-5	T26486	5	.030	0.76	0.080	2.0	1.010	25.7	700	1,040
TT(I/S-0S)16PNBS-6	T26487	6	.030	0.76	0.080	2.0	1.100	27.9	800	1,190
TT(I/S-0S)16PNBS-8	T26488	8	.030	0.76	0.080	2.0	1.220	31.0	980	1,460
TT(I/S-0S)16PNBS-12	T26489	12	.030	0.76	0.080	2.0	1.440	36.6	1,355	2,015
TT(I/S-0S)16PNBS-16	T26490	16	.030	0.76	0.080	2.0	1.640	41.7	1,750	2,605

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.

BOSTRIG™ TYPE P SIGNAL CABLE

Individual and overall shielded multi-triad / **armored and sheathed**
TYPE P SIGNAL CABLE **600V or 0.6/ 1kV, 18 & 16 AWG**

A brand of the Prysmian Group

18 AWG • 0.96 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored
		in	mm		(metric)	(NPT)
TT(0S)18PNBS-1	T26473	0.550	14.0	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07
TT(I/S-0S)18PNBS-2	T26474	0.790	20.1	424AN-03/ 12	474SW-55	474NP-10/ 14
TT(I/S-0S)18PNBS-3	T26475	0.850	21.6	424AN-03/ 12	474SW-55	474NP-10/ 14
TT(I/S-0S)18PNBS-4	T26476	0.930	23.6	424AN-04/ 15	474SW-55	474NP-10/ 14
TT(I/S-0S)18PNBS-5	T26477	1.000	25.4	424AN-04/ 15	474SW-55	474NP-10/ 14
TT(I/S-0S)18PNBS-6	T26478	1.130	28.7	424AN-04/ 15	474SW-56	474NP-15/ 20
TT(I/S-0S)18PNBS-8	T26479	1.180	30.0	424AN-04/ 05/ 15	474SW-56	474NP-15/ 20
TT(I/S-0S)18PNBS-12	T26480	1.380	35.1	424AN-05	474SW-57	474NP-21/ 27
TT(I/S-0S)18PNBS-16	T26481	1.510	38.4	424AN-05/ 06	474SW-57	474NP-21/ 27

16 AWG • 1.23 mm²

				GLAND SELECTION		
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored
		in	mm		(metric)	(NPT)
TT(0S)16PNBS-1	T26716	0.570	14.5	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07
TT(I/S-0S)16PNBS-2	T26483	0.810	20.6	424AN-03/ 12	474SW-55	474NP-10/ 14
TT(I/S-0S)16PNBS-3	T26484	0.890	22.6	424AN-03/ 12	474SW-55	474NP-10/ 14
TT(I/S-0S)16PNBS-4	T26485	0.940	23.9	424AN-04/ 15	474SW-55	474NP-10/ 14
TT(I/S-0S)16PNBS-5	T26486	1.010	25.7	424AN-04/ 15	474SW-55	474NP-10/ 14
TT(I/S-0S)16PNBS-6	T26487	1.100	27.9	424AN-04/ 15	474SW-56	474NP-15/ 20
TT(I/S-0S)16PNBS-8	T26488	1.220	31.0	424AN-05/ 06	474SW-56	474NP-15/ 20
TT(I/S-0S)16PNBS-12	T26489	1.440	36.6	424AN-05/ 06	474SW-57	474NP-21/ 27
TT(I/S-0S)16PNBS-16	T26490	1.640	41.7	424AN-06	474SW-58	474NP-28/ 31

GLAND REFERENCE CHART

Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
01 = 1/2"	03 = 1/2" - 14 NPT
02 = 3/4"	04 = 1/2" - 14 NPT
03 = 1"	07 = 3/4" - 14 NPT
04 = 1-1/4"	05 = 1/2" - 14 NPT
05 = 1-1/2"	08 = 3/4" - 14 NPT
06 = 2"	10 = 3/4" - 14 NPT
07 = 2-1/2"	14 = 1" - 11-1/2 NPT
08 = 3"	15 = 1" - 11-1/2 NPT
09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
15 = 1"	28 = 1-1/2" - 11-1/2 NPT
	31 = 2" - 11-1/2 NPT
	32 = 2" - 1-1/2 NPT
	33 = 2" - 11-1/2 NPT
	38 = 2-1/2" - 8 NPT
	39 = 2-1/2" - 8 NPT
	45 = 3" - 8 NPT
	47 = 3" - 8 NPT

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BOSTRIG™ TYPE P-VFD POWER CABLE 2000V

Shielded three conductor / **unarmored or armored and sheathed**
TYPE P POWER CABLE **2000V, 1/0 AWG to 777 MCM**

Applications

Bostrig™ Type P shielded three conductor VFD Marine and Offshore Cable is designed specifically for use with variable frequency AC motor drives. This cable is designed to significantly mitigate the deleterious effects of high frequency harmonics and electromagnetic interference (EMI) on the motor /drive system as well as the adjacent environment.

Bostrig™ VFD cables have excellent resistance to oil, abrasion, moisture, vibration, sunlight, and ester based muds (Type P-MR). They are suitable for use in Class 1, Division 1 offshore applications (armored and sheathed) and complies with UL 1277 Type TC-ER extended runs requirements.

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

- Jacket provides 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 2000V and performance requirements of IEC standards for 0.6/1 kV
- This product may be manufactured in an unarmored or armored and sheathed version
- Armored and sheathed cables suitable for use in Class 1 Division 1 and Zone 1 hazardous locations offshore
- Unarmored cables suitable for use in Class I, Division 2 and zone 2 hazardous locations offshore
- Meets requirements for UL 1277 Type TC-ER for 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

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

CONDUCTORS: 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 (2001).

GROUND CONDUCTORS: All Bostrig Type P-VFD Cables listed in this specification sheet are built using system grounds equal to the aggregate cross-section of a phase conductor and can be in contact with or isolated from the overall shield. A system ground is REQUIRED for supplying power from the switchboard to the inverter and then to the motor. If the VFD cable is only being used between the motor and the inverter, a cable with a reduced ground may be utilized.

SHIELD: Braided tinned copper and aluminum polyester tape for 100% coverage.

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.

ARMOR (optional): 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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BOSTRIG™ TYPE P-VFD POWER CABLE 2000V

Shielded three conductor / **unarmored or armored and sheathed**
TYPE P POWER CABLE **2000V, 1/0 AWG to 777 MCM**

A brand of the Prysmian Group

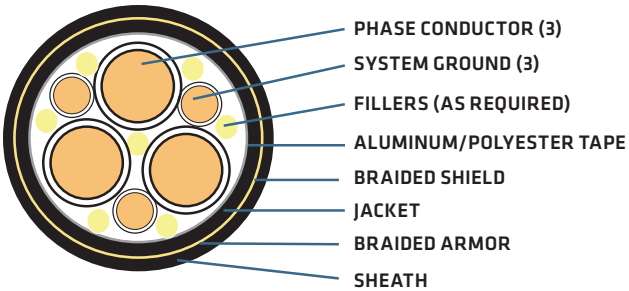
unarmored

Type Designation	Draka Number	Conductor Size		**Ground Size		Cable Diameter (nominal)		Inductance		Capacitance		Calculated Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/ MCM	mm²	AWG/ MCM	mm²	in	mm	Ω/kft	Ω/km	pF/ft	pF/m	95	100	110	125*	Lbs/ Mft	Kg/Km
TP(OBS)N-1/0	T36028	1/0	56.3	5	18.6	1.520	38.6	0.09	0.3	190	623	156	164	176	229	2,275	3,385
TP(OBS)N-2/0	T36029	2/0	66.5	4	21.5	1.620	41.1	0.09	0.3	212	695	175	186	201	254	2,730	4,065
TP(OBS)N-4/0	T36030	4/0	112.6	1	56.3	2.090	53.1	0.09	0.3	259	850	241	252	270	354	4,360	6,490
TP(OBS)N-262	T36031	262	133.0	1	56.3	2.220	56.4	0.09	0.3	247	810	267	294	315	395	5,045	7,510
TP(OBS)N-313	T36032	313	158.6	1/0	18.6	2.350	59.7	0.08	0.2	270	886	298	321	344	442	5,855	8,715
TP(OBS)N-373	T36033	373	189.3	2/0	61.5	2.540	64.5	0.08	0.2	292	958	333	361	387	492	6,950	10,345
TP(OBS)N-444	T36034	444	225.1	3/0	92.1	2.850	72.4	0.08	0.2	318	1,043	371	411	440	608	8,650	12,875
TP(OBS)N-535	T36035	535	271.2	3/0	92.1	3.010	76.5	0.09	0.3	291	954	417	443	475	608	9,695	14,430
TP(OBS)N-646	T36036	646	327.5	4/0	112.6	3.160	80.3	0.09	0.3	314	1,030	469	516	553	678	11,395	16,960
TP(OBS)N-777	T36037	777	393.8	262	133.0	3.500	88.9	0.09	0.3	345	1,132	528	582	602	750	13,515	20,115

armored and sheathed

Type Designation	Draka Number	Conductor Size		**Ground Size		Sheath Thickness		Cable Diameter (nominal)		Inductance		Capacitance		Calculated Ampacity† (measured @ °C)				Cable Weight (approximate)	
		AWG/ MCM	mm²	AWG/ MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	pF/ft	pF/m	95	100	110	125*	Lbs/ Mft	Kg/Km
TP(OBS)NBS-1/0	T36038	1/0	56.3	5	18.6	0.110	2.8	1.800	45.7	0.09	0.3	190	623	156	164	176	229	2,275	3,385
TP(OBS)NBS-2/0	T36039	2/0	66.5	4	21.5	0.110	2.8	1.900	48.3	0.09	0.3	212	695	175	188	201	254	2,730	4,065
TP(OBS)NBS-4/0	T36040	4/0	112.6	1	56.3	0.110	2.8	2.370	60.2	0.09	0.3	259	850	241	252	270	354	4,360	6,490
TP(OBS)NBS-262	T36041	262	133.1	1	56.3	0.110	2.8	2.500	63.5	0.09	0.3	247	810	267	294	315	395	5,045	7,510
TP(OBS)NBS-313	T36042	313	158.7	1/0	18.6	0.110	2.8	2.630	66.8	0.08	0.2	270	886	298	32	344	442	5,855	8,715
TP(OBS)NBS-373	T36043	373	189.2	2/0	61.5	0.140	3.6	2.880	73.2	0.08	0.2	292	958	333	361	387	492	6,950	10,345
TP(OBS)NBS-444	T36044	444	225.2	3/0	92.1	0.140	3.6	3.190	81.0	0.08	0.2	318	1,043	371	411	440	594	8,650	12,875
TP(OBS)NBS-535	T36045	535	271.3	3/0	92.1	0.140	3.6	3.350	85.1	0.09	0.3	291	954	417	443	475	608	9,695	14,430
TP(OBS)NBS-646	T36046	646	327.5	4/0	112.6	0.140	3.6	3.530	89.7	0.09	0.3	314	1,030	469	516	553	678	11,395	16,960
TP(OBS)NBS-777	T36047	777	394.2	262	133.0	0.140	3.6	3.840	97.5	0.09	0.3	345	1,132	528	582	602	750	13,515	20,115

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 -100C values based on API 14F.
*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.
**Ground sizes shown are full sized grounds. Reduced grounds available upon request based on application.



Draka Marine, Oil & Gas
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BOSTRIG™ TYPE P-VFD POWER CABLE 2000V

Shielded three conductor / **unarmored or armored and sheathed**
TYPE P POWER CABLE **2000V, 1/0 AWG to 777 MCM**

A brand of the Prysmian Group

unarmored

				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)		
TP(OBS)N-1/0	T36028	1.520	38.6	424UB-06	494AB-59	494NE-32	01 = 1/2"	03 = 1/2" - 14 NPT
TP(OBS)N-2/0	T36029	1.620	41.1	424UB-06/ 07	494AB-61	494NE-38	02 = 1/2"	04 = 1/2" - 14 NPT
TP(OBS)N-4/0	T36030	2.090	53.1	424UB-08	494AB-62	494NE-44	03 = 3/4"	05 = 1/2" - 14 NPT
TP(OBS)N-262	T36031	2.220	56.4	424UB-08/ 09	494AB-62/ 63	494NE-44/ 45	04 = 1"	08 = 3/4" - 14 NPT
TP(OBS)N-313	T36032	2.350	59.7	424UB-08/ 09	494AB-63	494NE-45	05 = 1-1/4"	10 = 3/4" - 14 NPT
TP(OBS)N-373	T36033	2.540	64.5	424UB-09	494AB-63	494NE-45	15 = 1 1/2"	14 = 1" - 11-1/2 NPT
TP(OBS)N-444	T36034	2.850	72.4	424UB-09	***	***	06 = 2"	15 = 1" - 11-1/2 NPT
TP(OBS)N-535	T36035	3.010	76.5	***	***	***	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
TP(OBS)N-646	T36036	3.160	80.3	***	***	***	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
TP(OBS)N-777	T36037	3.500	88.9	***	***	***	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								44 = 3" - 8 NPT
								45 = 3" - 8 NPT

armored and sheathed

				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)		
TP(OBS)NBS-1/0	T36038	1.800	45.7	424AN-06	474SW-59	474NP-32	01 = 1/2"	03 = 1/2" - 14 NPT
TP(OBS)NBS-2/0	T36039	1.900	48.3	424AN-06	474SW-59	474NP-32	02 = 3/4"	04 = 1/2" - 14 NPT
TP(OBS)NBS-4/0	T36040	2.370	60.2	424AN-07	474SW-61	474NP-38	03 = 1"	07 = 3/4" - 14 NPT
TP(OBS)NBS-262	T36041	2.500	63.5	424AN-08	474SW-61	474NP-38	04 = 1-1/4"	05 = 1/2" - 14 NPT
TP(OBS)NBS-313	T36042	2.630	66.8	424AN-08	474SW-62	474NP-39	05 = 1-1/2"	08 = 3/4" - 14 NPT
TP(OBS)NBS-373	T36043	2.880	73.2	424AN-08	474SW-63	474NP-45	06 = 2"	10 = 3/4" - 14 NPT
TP(OBS)NBS-444	T36044	3.190	81.0	424AN-09	474SW-64	474NP-47	07 = 2-1/2"	14 = 1" - 11 1/2 NPT
TP(OBS)NBS-535	T36045	3.350	85.1	424AN-09	474SW-64	474NP-47	08 = 3"	15 = 1" - 11 1/2 NPT
TP(OBS)NBS-646	T36046	3.530	89.7	***	***	***	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
TP(OBS)NBS-777	T36047	3.840	97.5	***	***	***	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
							12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
							15 = 1"	28 = 1-1/2" - 11-1/2 NPT
								31 = 2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								33 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

S611T Marine Fiber Optic Cables

Tight buffer construction

2 to 48 fibers / single-mode or mulitimode / LSZH

Applications

The Draka S611T series of Marine Shipboard unarmored fiber optic cables are designed especially for the harsh environments of commercial marine vessels, offshore oil platforms, drilling rigs, and other similar applications.

Draka S611T low smoke/ zero halogen, flame retardant cables offer versatility and ease of installation in a construction suited for marine applications. They are compliant with the latest IEC requirements.

S611T cables meet the requirements of IEC 60793-1 and IEC 60792-2 specifications, are encapsulated in all dielectric, tight buffered construction, individually reinforced with aramid yarns and jacketed (breakout style). The breakout components are cabled around a central member providing additional tensile strength to the entire construction. The thermoplastic low smoke/ zero halogen jacketing system offers excellent resistance to chemicals, fluids, fungus, and abrasion.

Features/Ratings

- Low smoke/zero halogen construction meets appropriate IEEE and IEC standards for fire, smoke, and toxicity
- Superior resistance to oil, abrasion, moisture, sunlight, crush and impact
- Gigabit ethernet 802.3Z compliant

Approvals

Meets IEC60794-1-1, 60794-1-2 and 60794-2

Meets IEEE 45 and IEEE 1580

Det Norske Veritas (DNV)

American Bureau of Shipping (ABS)

Lloyd's Register of Shipping (LRS)

Flame retardant per IEC 60332-3 CAT. A/F and IEEE 1202

Smoke density requirements of IEC 61034-1 and 61034-2

Acid gas generation requirements of IEC 60754-1 & 60754-2

Toxicity requirements of NES 713

Meets the performance requirements of IEEE 802.3z (Gigabit ethernet)

Construction

CENTRAL STRENGTH MEMBER: Dielectric material (epoxy fiberglass rod).

FIBER: Multimode or single-mode fibers with an easily-strippable 900µm tight buffering colored per TIA/EIA 598.

SUBUNIT STRENGTH MEMBER: Aramid yarn.

SUBUNIT JACKET: 2.0 mm ChromaTek-L™ Halex low smoke zero halogen polyolefin.

SHEATH: ChromaTek-L™ Halex low smoke zero halogen polyolefin.

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S611T Marine Fiber Optic Cables

Tight buffer construction

2 to 48 fibers / single-mode or mulitimode / LSZH

A brand of the Prysmian Group

Draka usa Part Number	Number of Fibers	INSTALLATION		OPERATING		Cable Outside Diameter	Approximate Cable Weight
		Pull Strength Newtons (lbs)	Bend Radius cm (in)	Tension Newtons (lbs)	Bend Radius cm (in)	mm (in)	Kg/Km (Lbs/Mft)
S611T-02R-xxy	2	600 (135)	13.6 (5.3)	200 (45)	6.8 (2.7)	6.78 (0.267)	49 (33)
S611T-04-xxy	4	600 (135)	15.3 (6.0)	200 (45)	7.7 (3.0)	7.67 (0.302)	60 (40)
S611T-06-xxy	6	600 (135)	17.3 (6.8)	200 (45)	8.6 (3.4)	8.64 (0.340)	85 (57)
S611T-08-xxy	8	600 (135)	20.0 (7.8)	200 (45)	10.0 (3.9)	10.01 (0.394)	100 (67)
S611T-10-xxy	10	600 (135)	22.4 (8.8)	200 (45)	11.2 (4.4)	11.23 (0.442)	127 (85)
S611T-12-xxy	12	600 (135)	25.0 (9.8)	200 (45)	12.5 (4.9)	12.47 (0.491)	158 (106)
S611T-16-xxy	16	2700 (600)	25.2 (10.0)	600 (135)	12.6 (5.0)	12.62 (0.497)	161 (108)
S611T-18-xxy	18	2700 (600)	25.2 (10.0)	600 (135)	12.6 (5.0)	12.62 (0.497)	159 (107)
S611T-24-xxy	24	2700 (600)	29.3 (11.6)	600 (135)	14.7 (5.8)	14.66 (0.577)	204 (137)
S611T-36-xxy	36	2700 (600)	34.0 (13.4)	600 (135)	17.0 (6.7)	17.02 (0.670)	260 (175)
S611T-48-xxy	48	2700 (600)	42.7 (16.8)	600 (135)	21.4 (8.4)	21.36 (0.841)	350 (235)

Replace the xxy with the Fiber Designation in the fiber performance table below. NOTE: Fibers are not suitable for F07 crimp and cleave connector. Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications

FIBER PERFORMANCE

	62.5µm MULTIMODE	50µm MULTIMODE	200µm MULTIMODE	8.3µm SINGLE-MODE
Fiber Designation	62X	50H	200S	010X
Applicable Specification	IEC 60793-10 Type A1b	ITU G.65.1 & IEC 60793-10 Type A1a.1	ITU G.651 & IEC 60793-10 Type A1a	
Fiber Type	Graded Index	Graded Index	Step Index	Matched Clad
Core Diameter	62.5µm ±2.5µm	50µm ±2.5µm	200µm ±5µm	8.3µm Nominal
Cladding Diameter	125µm ±1µm	125µm ±1µm	230µm ±10µm	125µm ±7µm
Coating Diameter	242µm ±7µm	242µm ±5µm	500µm ±30µm	242µm ±1µm
Buffer Diameter	900µm ±50µm	900µm ±50µm	900µm ±50µm	900µm ±50µm
Numerical Aperture	0.275 ±0.015	0.200 ±0.015	.037 Nominal (2m 5% intensity)	n/a
Mode Field Diameter	n/a	n/a	n/a	9.0µm ±0.4µm
Attenuation	≤ 3.5 dB/Km @ 850nm ≤ 1.5 dB/Km @ 1300nm	≤ 3.5 dB/Km @ 850nm ≤ 1.5 dB/Km @ 1300nm	≤ 12.0 dB/Km @ 820nm	≤ 0.70 dB/Km @ 1310nm ≤ 0.70 dB/Km @ 1550nm
Bandwidth	≥ 200 MHz/Km @ 850nm ≥ 500 MHz/Km @ 1300nm	≥ 500 MHz/Km @ 850nm ≥ 500 MHz/Km @ 1300nm	≥ 20 MHz/Km @ 820nm	n/a n/a
Dispersion	n/a n/a	n/a n/a	n/a n/a	≤ 3.0 ps/nm-Km @ 1285-1330nm ≤ 18 ps/nm-Km @ 1550nm
Proof Test	100,000 psi	100,000 psi	100,000 psi	100,000 psi

CABLE PROPERTIES

Crush (IEC 60794-1-E3)	3000 N/ 10 cm
Impact (IEC 60794-1-E4)	20 impacts, 5J
Torsion (IEC 60794-1-E7)	+ 1 turn / 2 m, 100 cycles
Cable Bend (IEC 60794-1-E11)	<0.1 dB/ + 6 turns

FIRE, SMOKE, AND TOXICITY CLASSIFICATIONS

Flame retardant:	IEC 60332-3, CAT.A CAT A/F and IEEE 1202
Smoke density:	IEC 61034-1 and IEC 61034-2
Acid gas penetration:	IEC 60754-1 and IEC 60754-2
Toxicity:	NES 713

TEMPERATURE RANGE

Operation:	-20°C to +80°C
Installation:	-10°C to +60°C
Storage:	-40°C to +80°C

S670T Armored and Sheathed Marine Fiber Optic Cables

Tight buffer construction

2 to 48 fibers / single-mode or multimode / LSZH / armored and sheathed

Applications

The Draka S670T series of Marine Shipboard armored fiber optic cables are designed especially for the harsh environments of commercial marine vessels, offshore oil platforms, drilling rigs, and other similar applications.

Draka S670T low smoke/zero halogen, flame retardant cables offer versatility and ease of installation in a construction suited for marine applications. They are compliant with the latest IEC requirements.

S670T cables meet the requirements of IEC 60793-1 and IEC 60792-2 specifications, are encapsulated in all dielectric, tight buffered construction, individually reinforced with aramid yarns and jacketed (breakout style). The breakout components are cabled around a central member providing additional tensile strength to the entire construction. The thermoplastic low smoke/ zero halogen double jacketing system under and over the marine grade bronze braided armor offers excellent resistance to chemicals, fluids, fungus, and abrasion.

Features/Ratings

- Low smoke/zero halogen construction meets appropriate IEEE and IEC standards for fire, smoke, and toxicity
- Superior resistance to oil, abrasion, moisture, sunlight, crush and impact
- Gigabit ethernet 802.3Z compliant
- Armored and sheathed construction offers additional mechanical & environmental protection

Approvals

Meets IEC60794-1-1, 60794-1-2 and 60794-2

Meets IEEE 45 and IEEE 1580

Det Norske Veritas (DNV)

American Bureau of Shipping (ABS)

Lloyd's Register of Shipping (LRS)

Flame retardant per IEC 60332-3 CAT. A/F and IEEE 1202

Smoke density requirements of IEC 61034-1 and 61034-2

Acid gas generation requirements of IEC 60754-1 & 60754-2

Toxicity requirements of NES 713

Meets the performance requirements of IEEE 802.3z (Gigabit ethernet)

Construction

CENTRAL STRENGTH MEMBER: Dielectric material (epoxy fiberglass rod).

FIBER: Multimode or single-mode fibers with an easily-strippable 900µm tight buffering colored per TIA/EIA 598.

SUBUNIT STRENGTH MEMBER: Aramid yarn

SUBUNIT JACKET: 2.0 mm ChromaTek-L™ Halex low smoke zero halogen polyolefin.

JACKET: ChromaTek-L™ Halex low smoke zero halogen polyolefin.

ARMOR: Braided bronze in accordance with IEEE 1580 (2010)

SHEATH: ChromaTek-L™ Halex low smoke zero halogen polyolefin.

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S670T Armored and Sheathed Marine Fiber Optic Cables

Tight buffer construction

2 to 48 fibers / single-mode or multimode / LSZH / armored and sheathed

A brand of the Prysmian Group

Draka usa Part Number	Number of Fibers	INSTALLATION		OPERATING		Cable Outside Diameter	Approximate Cable Weight
		Pull Strength Newtons (lbs)	Bend Radius cm (in)	Tension Newtons (lbs)	Bend Radius cm (in)	mm (in)	Kg/Km (Lbs/Mft)
S670T-02R-xxy	2	600 (135)	22.4 (8.8)	200 (45)	11.2 (4.4)	11.23 (.442)	204 (137)
S670T-04-xxy	4	600 (135)	25.0 (9.8)	200 (45)	12.5 (4.9)	12.45 (.490)	210 (141)
S670T-06-xxy	6	600 (135)	25.6 (10.2)	200 (45)	12.8 (5.1)	12.83 (.505)	238 (160)
S670T-08-xxy	8	600 (135)	28.5 (11.2)	200 (45)	14.3 (5.6)	14.32 (.564)	287 (193)
S670T-10-xxy	10	600 (135)	31.4 (12.4)	200 (45)	15.7 (6.2)	15.65 (.616)	345 (232)
S670T-12-xxy	12	600 (135)	33.8 (13.4)	200 (45)	16.9 (6.7)	16.92 (.666)	400 (268)
S670T-16-xxy	16	2700 (600)	33.8 (13.4)	600 (135)	16.9 (6.7)	16.92 (.666)	393 (264)
S670T-18-xxy	18	2700 (600)	33.8 (13.4)	600 (135)	16.9 (6.7)	16.92 (.666)	391 (263)
S670T-24-xxy	24	2700 (600)	39.0 (15.4)	600 (135)	19.5 (7.7)	19.51 (.768)	472 (317)
S670T-36-xxy	36	2700 (600)	44.7 (17.6)	600 (135)	22.4 (8.8)	22.35 (.880)	595 (400)
S670T-48-xxy	48	2700 (600)	57.8 (22.8)	600 (135)	28.9 (11.4)	28.91 (1.138)	954 (641)

Replace the xxy with the Fiber Designation in the fiber performance table below. NOTE: Fibers are not suitable for F07 crimp and cleave connector. Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

FIBER PERFORMANCE

	62.5µm MULTIMODE	50µm MULTIMODE	200µm MULTIMODE	8.3µm SINGLE-MODE
Fiber Designation	62X	50H	200S	010X
Applicable Specification	IEC 60793-10 Type A1b	ITU G.65.1 & IEC 60793-10 Type A1a.1	ITU G.651 & IEC 60793-2 Type A1a	
Fiber Type	Graded Index	Graded Index	Step Index	Matched Clad
Core Diameter	62.5µm ±2.5µm	50µm ±2.5µm	200µm ±5µm	8.3µm Nominal
Cladding Diameter	125µm ±1µm	125µm ±1µm	230µm ±10µm	125µm ±1µm
Coating Diameter	242µm ±7µm	242µm ±7µm	500µm ±30µm	242µm ±7µm
Buffer Diameter	900µm ±50µm	50µm ±2.5µm	900µm ±50µm	900µm ±50µm
Numerical Aperture	0.275 ±0.015	0.200 ±0.015	.037 Nominal (2m 5% intensity)	n/a
Mode Field Diameter	n/a	n/a	n/a	9.1µm ±0.4µm
Attenuation	≤ 3.5 dB/Km @ 850nm ≤ 1.0 dB/Km @ 1300nm	≤ 3.5 dB/Km @ 850nm ≤ 1.0 dB/Km @ 1300nm	≤ 12.0 dB/Km @ 820nm	≤ 0.70 dB/Km @ 1310nm ≤ 0.70 dB/Km @ 1550nm
Bandwidth	≥ 200 MHz/Km @ 850nm ≥ 500 MHz/Km @ 1300nm	≥ 500 MHz/Km @ 850nm ≥ 500 MHz/Km @ 1300nm	≥ 20 MHz/Km @ 820nm	n/a n/a
Dispersion	n/a n/a	n/a n/a	n/a n/a	≤ 3.0 ps/nm-Km @ 1285-1330nm ≤ 18 ps/nm-Km @ 1550nm
Proof Test	100,000 psi	100,000 psi	100,000 psi	100,000 psi

CABLE PROPERTIES

Crush (IEC 60794-1-E3)	3000 N/ 10 cm
Impact (IEC 60794-1-E4)	20 impacts, 5J
Torsion (IEC 60794-1-E7)	+ 1 turn / 2 m, 100 cycles
Cable Bend (IEC 60794-1-E11)	<0.1 dB/ + 6 turns

TEMPERATURE RANGE

Operation:	-20°C to +80°C
Installation:	-10°C to +60°C
Storage:	-40°C to +80°C

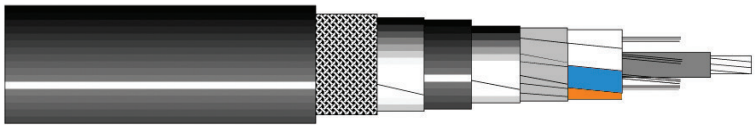
FIRE, SMOKE, AND TOXICITY CLASSIFICATIONS

Flame retardant:	IEC 60332-3, CAT.A CAT A/F and IEEE 1202
Smoke density:	IEC 61034-1 and IEC 61034-2
Acid gas penetration:	IEC 60754-1 and IEC 60754-2
Toxicity:	NES 713

Draka

Fire Resistant QFCI/O/RM-JM/-F1

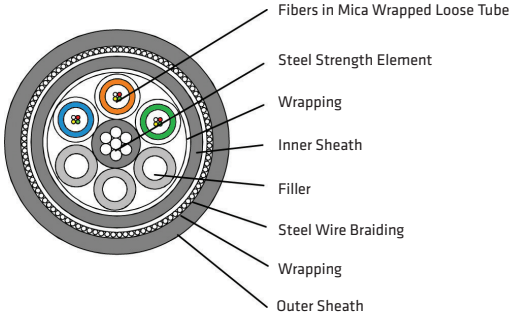
Indoor and outdoor, fire resistant, flame retardant halogen-free loose tube



Applications

Optical cable for indoor and outdoor use in vital communication and emergency systems that need to be operational during fire. The cable has a patented design that ensures operation for more than 3 hours in fires up to 1000°C. The cable is halogen free and flame retardant to protect against secondary damage to electronic equipment during and after fire. Outer sheath is made from black UV-stabilized and weather resistant material and may be exposed for shorter periods to fluids such as diesel, petrol, glycol, ethanol, white spirit and ASTM oil 2.

The resistance to these fluids is according to DOD-STD-1678, method 8030. The cable is reinforced with a steel wire braiding. The fibers are protected in gel-filled loose tubes stranded around a central strength member to ensure optimum performance and long life. Each fiber and loose tube is color coded for easy identification during splicing and termination. The outer sheath is marked to show fiber type and cable type.



Cable Properties

- **Tensile strength** (IEC 60794-1-2E1)
  Max tensile load during installation 1500 N
  Max tensile load during operation 500 N
- **Color Coding** (TIA/EIA-455-598C)
- **Crush** (IEC 60794-1-2E3 3000 N/10cm
- **Impact** (IEC 60794-1-2E4) 20 impacts, 5J
- **Torsion** (IEC 60794-1-2E7) ± 1 turn/1m
- **Cable bending**
  Minimum bending diameter 250 mm
  Cable bend (IEC 60794-1-2E11) < 0.1dB/ ±5 turn
- **Temperature window**
  Operation -30°C to +60°C
  Installation -10°C to +60°C
  Storage -40°C to +70°C
- **Chemical resistance**
  Mineral oils IRM 902 (IEC60811-2-1) - 7 days/23°C
  - 4 hours/70°C
  Diesel - IRM 903 (IEC60811-2-1) - 7 days/23°C
  - 4 hours/70°C
- **Fire and smoke classifications**
  IEC 60331-25 (750°C, 3 hours) <1 dB excess loss
  Upgraded IEC 60331-25 (1000°C, 3 hours) <1.5 dB excess loss
  BP-236
  IEC 61034
  IEC 60332-3 cat. A and C
  IEC 60754-1
  IEC 60754-2

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A brand of the Prysmian Group

Fiber Type	9/125 ITU-T G652.D	50/125 OM2	62.5/125 OM1
Core Diameter	8.3 µm (typical)	50 ± 2.5 µm	62.5 ± 2.5 µm
Mode Field Diameter	1310 nm 9.0 ± 0.4 µm 1550 nm 10.1 ± 0.5 µm	n/a	n/a
Cladding Diameter	125 ± 0.7 µm	125 ± 1.0 µm	125 ± 1.0 µm
Primary Coating Diameter	242 ± 7 µm	242 ± 5 µm	242 ± 5 µm
Attenuation of Finished Cable			
850 nm	n/a	≤ 3.5 dB/km	≤ 3.0 dB/km
1300 nm	n/a	≤ 1.5 dB/km	≤ 1.0 dB/km
1310 nm	≤ 0.40 dB/km	n/a	n/a
1550 nm	≤ 0.30 dB/km	n/a	n/a
Bandwidth			
850 nm	n/a	> 500 MHz•km	>200 MHz•km
1300 nm	n/a	> 500 MHz•km	>500 MHz•km
Dispersion			
1285-1330 nm	< 3.0 ps/nm•km	n/a	n/a
1550 nm	< 18 ps/nm•km	n/a	n/a
Numerical Aperture	0.13 (typical)	0.200 ± 0.015	0.275 ± 0.015
Minimum Permanent			
Bending Diameter	25 mm	75 mm	75 mm
Other fiber types and qualities are available on request.			

Ordering Information

Fiber Count	Single Mode Fiber	50/125 Fiber	62.5/125 Fiber
	Part Number	Part Number	Part Number
2	QFCI2-02R-010X	QFCI2-02R-50H	QFCI2-02R-62X
4	QFCI4-04-010X	QFCI4-04-50H	QFCI4-04-62X
6	QFCI6-06-010X	QFCI6-06-50H	QFCI6-06-62X
8	QFCI4-08-010X	QFCI4-08-50H	QFCI4-08-62X
10	QFCI2-10-010X	QFCI2-10-50H	QFCI2-10-62X
12	QFCI6-12-010X	QFCI6-12-50H	QFCI6-12-62X
16	QFCI4-16-010X	QFCI4-16-50H	QFCI4-16-62X
20	QFCI4-20-010X	QFCI4-20-50H	QFCI4-20-62X
24	QFCI6-24-010X	QFCI6-24-50H	QFCI6-24-62X
32	QFCI8-32-010X	QFCI8-32-50H	QFCI8-32-62X
40	QFCI8-40-010X	QFCI8-40-50H	QFCI8-40-62X
48	QFCI8-48-010X	QFCI8-48-50H	QFCI8-48-62X

Number of Fibers	Number of Fibers in Each Tube	Number of Tubes + Fillers	Loose Tube Diameter (mm)	Outer Diameter (mm)	Weight (kg/km)	Heat Release (MJ/km)
2	2	1+5	2.2	14.3	307	1,390
4	4	1+5	2.2	14.3	307	1,390
6	6	1+5	2.2	14.3	307	1,325
8	4	2+4	2.2	14.3	307	1,381
10	2	5+1	2.2	14.3	307	1,201
12	6	2+4	2.2	14.3	307	1,324
16	4	4+2	2.2	14.3	307	1,264
20	4	5+1	2.2	14.3	307	1,201
24	6	4+2	2.2	14.3	307	1,138
32	8	4+2	2.2	14.3	307	1,264
40	8	5+1	2.2	14.3	307	1,201
48	8	6+0	2.2	14.3	307	1,138

The data herein is approximate and subject to normal manufacturing tolerances. Other fiber counts are available on request.

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Table 1 - TIA/EIA Fiber Optic Color Codes

TIA/EIA Fiber Optic Color Codes					
Position	**Base Color**	**Position**	**Base Color with Stripe**	**Position**	**Base Color with Stripe**
1	Blue	13	Blue with Black Stripe	25	Blue with Red Stripe
2	Orange	14	Orange with Black Stripe	26	Orange with Red Stripe
3	Green	15	Green with Black Stripe	27	Green with Red Stripe
4	Brown	16	Brown with Black Stripe	28	Brown with Red Stripe
5	Slate	17	Slate with Black Stripe	29	Slate with Red Stripe
6	White	18	White with Black Stripe	30	White with Red Stripe
7	Red	19	Red with Black Stripe	31	Red with Yellow Stripe
8	Black	20	Black with Yellow Stripe	32	Black with Red Stripe
9	Yellow	21	Yellow with Black Stripe	33	Yellow with Red Stripe
10	Violet	22	Violet with Black Stripe	34	Violet with Red Stripe
11	Rose	23	Rose with Black Stripe	35	Rose with Red Stripe
12	Aqua	24	Aqua with Black Stripe	36	Aqua with Red Stripe

Table 2 - Bostrig™ Conductor Information

Conductor Size	Conductor Stranding	Nominal Diameter (inches)	Maximum DC Resistance @25C (ohms/1000ft)
22 AWG	19/34	0.029	18.46
20 AWG	19/32	0.039	11.62
18 AWG	19/30	0.048	6.342
16 AWG	19/29	0.056	4.527
14 AWG	19/27	0.071	2.835
12 AWG	19/25	0.088	1.784
10 AWG	27/24	0.117	1.101
8 AWG	41/24	0.146	0.692
6 AWG	63/24	0.207	0.445
5 AWG	91/24	0.235	0.353
4 AWG	105/24	0.261	0.279
3 AWG	133/24	0.280	0.221
2 AWG	161/24	0.330	0.175
1 AWG	224/24	0.380	0.128
1/0 AWG	273/24	0.403	0.106
2/0 AWG	342/24	0.455	0.0885
3/0 AWG	456/24	0.527	0.0646
4/0 AWG	551/24	0.570	0.0530
262 KCMIL	646/24	0.627	0.0459
313 KCMIL	777/24	0.695	0.0383
373 KCMIL	925/24	0.750	0.0319
444 KCMIL	1110/24	0.820	0.0269
535 KCMIL	1332/24	0.895	0.0223
646 KCMIL	1591/24	0.981	0.0186
777 KCMIL	1924/24	1.085	0.0154
1111 KCMIL	2745/24	1.298	0.0110

For more information, visit:

na.prysmiangroup.com

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