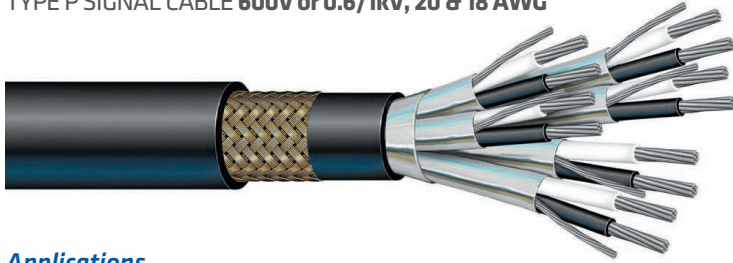




BOSTRIG™ TYPE P SIGNAL CABLE 600V OR 0.6/1kV

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 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 (2001).

SEATH: 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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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

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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20 AWG • 0.61 mm²

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

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