

# Type P Drilmar® 125-XE Power/Distribution Cable Multiconductor



Crosslinked Polyolefin Insulated, Drilling Rig and Marine Cable, 600/1000 V

A Viakable Company

## Features

Engineered for easiest installation. Extra flexible stranding meets IEEE, UL, and CSA requirements.

Maximum conductor operating temperature: 100 °C as Type P per IEEE, and 110°C as Type X110 per UL and CSA. Meets ampacity ratings per ABS, DNV, LRS, and TCMS.

DRILMAR® XLPO Insulation:

- Superior oil and chemical resistance.
- Sunlight resistant.
- Rated at 125 °C.
- Passes Cold Bend at -55 °C.

Heavy Duty CP Jacket:

- Arctic Type XE design.
- Abrasion and sunlight resistant.
- Rated at 90 °C.

Completed cable offers superior flame resistance meeting:

- 70,000 Btu Flame Tests IEEE 1202/FT4, IEEE 383, UL 1685, ICEA T-30-820, and IEC 332 Category A.
- 210,000 Btu Flame Test ICEA T-29-520.

Arctic Type design meets Cold Bend and Impact Tests at -40 °C, exceeding the Transport Canada Marine Safety requirements.

## Application

DRILMAR® 125-XE cables are specifically designed for the installation and use in marine environments, for use on offshore drilling rigs, aboard marine vessels, and on fixed and floating offshore facilities where harsh marine environments exist. These cables are used for the distribution of power in circuits rated for 600/1000 volts or may be used in lighting, communication and control.

Typical applications include:

A/C motor power, distribution panel feeders; transformer feeders; lighting panels; light fixtures; plugs/receptacles and remote motor controls.

## Standards

IEEE 1580

Recommended Practice for Marine Cable for Use on Shipboard and Fixed and Floating Platforms.

IEEE 45

Recommended Practice for Electrical Installations on Shipboard Cable.

UL 1309

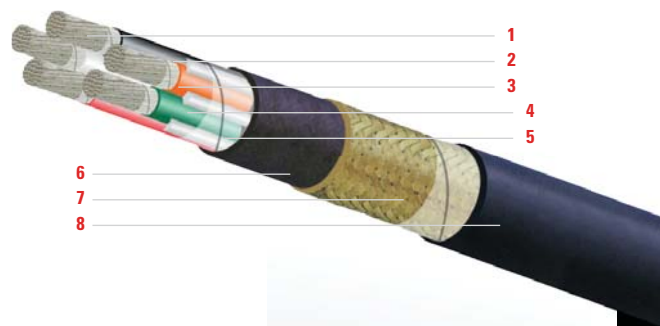
Marine Shipboard Cable.

CSA C22.2 No. 245

Marine Shipboard Cable.

## Approvals

- UL and CSA, as Type P.
- UL and CSA, as Type X110.
- ABS, American Bureau of Shipping.
- DNV, Det Norske Veritas
- LRS, Lloyd's Register of Shipping.
- United States Coast Guard.
- TCMS, Transport Canada Marine Safety.



## Engineering Information

**1. Conductor:** Soft annealed flexible Tin Coated Copper per IEEE, UL, and CSA.

**Sizes:** 8 AWG up to 777 kcmil.

**2. Separator Tape:** Polyester tape as required.

**3. Insulation:** Flame retardant and sunlight resistant Crosslinked Polyolefin (XLPO) per IEEE. Also meets and exceeds the requirements of UL and CSA for Type X110. DRILMAR® 125-XE is a 125 °C XLPO.

**4. Identification:** Color coded insulation per IEEE, UL and CSA.

**5. Assembly:** Conductors cabled round with moisture and flame retardant fillers, as required and binder tape.

**6. Jacket:** Flame retardant and sunlight resistant Arctic Type Chlorosulfonated Polyethylene (CP) per IEEE, UL and CSA.

**7. Armor (optional):** Standard - Bronze.

*Optional - Aluminum or Tinned Copper Braid per IEEE, UL and CSA.*

**8. Overall Sheath (optional):** Flame retardant and sunlight resistant Arctic Type Chlorinated Polyethylene (CPE) per IEEE, UL, and CSA.

**Note:** Overall Jacket is optional for Bronze armor only, Tinned Copper armor and Aluminum armor require the use of outer jacket.

Technical Data

Type P Power/Distribution Cable, Two Conductors, 600/1000 V

Conductor		Unarmored					Armored				
Size AWG / kcmil	Strands	Nominal OD		Part Number	Net Weight		Nominal OD		Bronze		
		in	mm		lb/kft	kg/km	in	mm	Part Number	lb/kft	kg/km
8	37	0.67	17	DDPCP16-2	239	356	0.72	18.3	DDPCPB16-2	347	517
6	63	0.79	20	DDPCP26-2	349	520	0.84	21.4	DDPCPB26-2	476	709
5	91	0.92	23	DDPCP33-2	491	731	0.97	24.6	DDPCPB33-2	638	950
4	105	0.95	24	DDPCP41-2	542	807	1.01	25.5	DDPCPB41-2	695	1034
3	126	1.00	26	DDPCP52-2	619	921	1.06	26.8	DDPCPB52-2	780	1161
2	154	1.07	27	DDPCP66-2	720	1072	1.12	28.4	DDPCPB66-2	891	1325
1	224	1.24	32	DDPCP83-2	995	1480	1.29	32.9	DDPCPB83-2	1193	1775
1/0	273	1.32	34	DDPCP105-2	1162	1730	1.38	34.9	DDPCPB105-2	1373	2043
2/0	323	1.44	37	DDPCP133-2	1360	2024	1.49	37.8	DDPCPB133-2	1588	2364
3/0	456	1.62	41	DDPCP167-2	1809	2692	1.67	42.5	DDPCPB167-2	2066	3074
4/0	551	1.73	44	DDPCP211-2	2121	3157	1.79	45.4	DDPCPB211-2	2396	3565
262.6	646	1.95	50	DDPCP262-2	2614	3890	2.00	50.9	DDPCPB262-2	2922	4349
313.1	779	2.09	53	DDPCP313-2	3056	4547	2.14	54.3	DDPCPB313-2	3385	5037
373.7	925	2.22	56	DDPCP373-2	3541	5270	2.28	57.8	DDPCPB373-2	3892	5792
444.4	1110	2.38	60	DDPCP444-2	4149	6174	2.43	61.8	DDPCPB444-2	4524	6733
535.3	1332	2.62	67	DDPCP535-2	4978	7409	2.67	67.9	DDPCPB535-2	5391	8023
646.4	1591	2.80	71	DDPCP646-2	5817	8657	2.86	72.5	DDPCPB646-2	6259	9314
777.7	1924	3.09	78	DDPCP777-2	7081	10538	3.14	79.7	DDPCPB777-2	7567	11260

Conductor		Armored and Sheathed							
Size AWG / kcmil	Strands	Nominal OD		Aluminum			Bronze		
		in	mm	Part Number	Net Weight		Part Number	Net Weight	
					lb/kft	kg/km		lb/kft	kg/km
8	37	0.93	23.7	DDPCPAS16-2	424	631	DDPCPBS16-2	499	742
6	63	1.05	26.7	DDPCPAS26-2	562	836	DDPCPBS26-2	650	967
5	91	1.18	30.0	DDPCPAS33-2	733	1091	DDPCPBS33-2	835	1243
4	105	1.22	30.9	DDPCPAS41-2	792	1179	DDPCPBS41-2	898	1337
3	126	1.27	32.2	DDPCPAS52-2	881	1311	DDPCPBS52-2	992	1477
2	154	1.33	33.8	DDPCPAS66-2	996	1483	DDPCPBS66-2	1114	1659
1	224	1.51	38.3	DDPCPAS83-2	1311	1951	DDPCPBS83-2	1448	2155
1/0	273	1.59	40.3	DDPCPAS105-2	1497	2228	DDPCPBS105-2	1643	2445
2/0	323	1.70	43.2	DDPCPAS133-2	1721	2561	DDPCPBS133-2	1879	2796
3/0	456	1.95	49.5	DDPCPAS167-2	2333	3471	DDPCPBS167-2	2511	3736
4/0	551	2.06	52.4	DDPCPAS211-2	2678	3985	DDPCPBS211-2	2868	4269
262.6	646	2.28	57.9	DDPCPAS262-2	3234	4813	DDPCPBS262-2	3448	5131
313.1	779	2.41	61.3	DDPCPAS313-2	3715	5529	DDPCPBS313-2	3943	5868
373.7	925	2.55	64.8	DDPCPAS373-2	4241	6311	DDPCPBS373-2	4484	6673
444.4	1110	2.71	68.8	DDPCPAS444-2	4894	7284	DDPCPBS444-2	5155	7671
535.3	1332	3.02	76.6	DDPCPAS535-2	5988	8911	DDPCPBS535-2	6274	9337

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

**Ampacities:** Refer to beginning of section.

Technical Data *continued*

## Type P Power/Distribution Cable, Three Conductors, 600/1000 V

Conductor		Unarmored					Armored				
Size AWG / kcmil	Strands	Nominal OD		Part Number	Net Weight		Nominal OD		Bronze		
		in	mm		lb/kft	kg/km	in	mm	Part Number	lb/kft	kg/km
8	37	0.71	17.9	DTPCP16-3	309	459	0.76	19.3	DTPCPB16-3	423	629
6	63	0.84	21.2	DTPCP26-3	460	684	0.89	22.6	DTPCPB26-3	594	884
5	91	0.97	24.7	DTPCP33-3	646	961	1.02	26.0	DTPCPB33-3	801	1192
4	105	1.01	25.6	DTPCP41-3	717	1068	1.06	27.0	DTPCPB41-3	879	1308
3	126	1.07	27.1	DTPCP52-3	823	1225	1.12	28.4	DTPCPB52-3	994	1479
2	154	1.13	28.8	DTPCP66-3	963	1433	1.19	30.1	DTPCPB66-3	1144	1702
1	224	1.32	33.6	DTPCP83-3	1347	2005	1.37	34.9	DTPCPB83-3	1557	2318
1/0	273	1.41	35.8	DTPCP105-3	1586	2360	1.46	37.1	DTPCPB105-3	1810	2693
2/0	323	1.53	38.9	DTPCP133-3	1855	2760	1.58	40.2	DTPCPB133-3	2098	3122
3/0	456	1.73	43.9	DTPCP167-3	2491	3707	1.78	45.3	DTPCPB167-3	2765	4114
4/0	551	1.92	48.7	DTPCP211-3	3055	4546	1.97	50.0	DTPCPB211-3	3358	4997
262.6	646	2.08	52.9	DTPCP262-3	3580	5328	2.13	54.2	DTPCPB262-3	3909	5817
313.1	779	2.23	56.6	DTPCP313-3	4210	6265	2.28	57.9	DTPCPB313-3	4561	6788
373.7	925	2.37	60.3	DTPCP373-3	4895	7285	2.43	61.6	DTPCPB373-3	5270	7842
444.4	1110	2.54	64.6	DTPCP444-3	5757	8568	2.60	66.0	DTPCPB444-3	6158	9165
535.3	1332	2.80	71.2	DTPCP535-3	6926	10307	2.85	72.5	DTPCPB535-3	7367	10963
646.4	1591	3.07	77.9	DTPCP646-3	8312	12370	3.12	79.2	DTPCPB646-3	8794	13087

Conductor		Armored and Sheathed							
Size AWG / kcmil	Strands	Nominal OD		Aluminum			Bronze		
				Part Number	Net Weight		Part Number	Net Weight	
		in	mm		lb/kft	kg/km		lb/kft	kg/km
8	37	0.97	24.6	DTPCPAS16-3	502	747	DTPCPBS16-3	581	865
6	63	1.10	27.9	DTPCPAS26-3	683	1016	DTPCPBS26-3	776	1155
5	91	1.24	31.4	DTPCPAS33-3	900	1339	DTPCPBS33-3	1008	1500
4	105	1.27	32.4	DTPCPAS41-3	981	1459	DTPCPBS41-3	1093	1626
3	126	1.33	33.8	DTPCPAS52-3	1099	1636	DTPCPBS52-3	1217	1811
2	154	1.40	35.5	DTPCPAS66-3	1254	1867	DTPCPBS66-3	1380	2053
1	224	1.59	40.3	DTPCPAS83-3	1682	2502	DTPCPBS83-3	1827	2719
1/0	273	1.67	42.5	DTPCPAS105-3	1940	2887	DTPCPBS105-3	2095	3118
2/0	323	1.86	47.3	DTPCPAS133-3	2353	3501	DTPCPBS133-3	2521	3752
3/0	456	2.06	52.3	DTPCPAS167-3	3046	4533	DTPCPBS167-3	3236	4816
4/0	551	2.25	57.0	DTPCPAS211-3	3665	5454	DTPCPBS211-3	3875	5766
262.6	646	2.41	61.2	DTPCPAS262-3	4238	6307	DTPCPBS262-3	4466	6646
313.1	779	2.56	64.9	DTPCPAS313-3	4910	7307	DTPCPBS313-3	5154	7670
373.7	925	2.70	68.7	DTPCPAS373-3	5639	8391	DTPCPBS373-3	5898	8777
444.4	1110	2.94	74.7	DTPCPAS444-3	6740	10030	DTPCPBS444-3	7018	10444
535.3	1332	3.20	81.2	DTPCPAS535-3	8000	11905	DTPCPBS535-3	8306	12360

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

**Amcapities:** Refer to beginning of section.

Technical Data

Type P Power/Distribution Cable, Four Conductors, 600/1000 V

Conductor		Unarmored					Armored				
Size AWG / kcmil	Strands	Nominal OD		Part Number	Net Weight		Nominal OD		Bronze		
		in	mm		lb/kft	kg/km	in	mm	Part Number	lb/kft	kg/km
8	37	0.77	19.6	DFPCP16-4	388	577	0.82	20.9	DFPCPB16-4	512	762
6	63	0.96	24.4	DFPCP26-4	624	928	1.01	25.7	DFPCPB26-4	778	1157
5	91	1.06	27.0	DFPCP33-4	818	1217	1.12	28.3	DFPCPB33-4	988	1470
4	105	1.11	28.1	DFPCP41-4	910	1354	1.16	29.4	DFPCPB41-4	1087	1617
3	126	1.17	29.7	DFPCP52-4	1049	1561	1.22	31.0	DFPCPB52-4	1235	1839
2	154	1.24	31.6	DFPCP66-4	1231	1833	1.30	32.9	DFPCPB66-4	1430	2127
1	224	1.45	37.0	DFPCP83-4	1732	2577	1.51	38.3	DFPCPB83-4	1963	2921
1/0	273	1.55	39.4	DFPCP105-4	2042	3039	1.61	40.8	DFPCPB105-4	2288	3405
2/0	323	1.69	43.0	DFPCP133-4	2395	3565	1.74	44.3	DFPCPB133-4	2663	3963
3/0	456	1.98	50.2	DFPCP167-4	3347	4980	2.03	51.5	DFPCPB167-4	3659	5445
4/0	551	2.11	53.7	DFPCP211-4	3941	5864	2.17	55.0	DFPCPB211-4	4274	6361
262.6	646	2.30	58.4	DFPCP262-4	4631	6892	2.35	59.7	DFPCPB262-4	4994	7431
313.1	779	2.46	62.5	DFPCP313-4	5455	8118	2.51	63.8	DFPCPB313-4	5843	8695
373.7	925	2.63	66.7	DFPCP373-4	6352	9453	2.68	68.0	DFPCPB373-4	6766	10069
444.4	1110	2.82	71.6	DFPCP444-4	7482	11134	2.87	72.9	DFPCPB444-4	7925	11794

Conductor		Armored and Sheathed							
Size AWG / kcmil	Strands	Nominal OD		Aluminum			Bronze		
		in	mm	Part Number	Net Weight		Part Number	Net Weight	
					lb/kft	kg/km		lb/kft	kg/km
8	37	1.03	26.3	DFPCPAS16-4	596	887	DFPCPBS16-4	682	1015
6	63	1.22	31.1	DFPCPAS26-4	876	1303	DFPCPBS26-4	982	1462
5	91	1.33	33.7	DFPCPAS33-4	1093	1626	DFPCPBS33-4	1211	1802
4	105	1.37	34.8	DFPCPAS41-4	1195	1778	DFPCPBS41-4	1317	1961
3	126	1.43	36.4	DFPCPAS52-4	1349	2007	DFPCPBS52-4	1478	2199
2	154	1.51	38.3	DFPCPAS66-4	1548	2304	DFPCPBS66-4	1685	2508
1	224	1.72	43.7	DFPCPAS83-4	2097	3120	DFPCPBS83-4	2257	3358
1/0	273	1.88	47.8	DFPCPAS105-4	2546	3788	DFPCPBS105-4	2716	4042
2/0	323	2.02	51.3	DFPCPAS133-4	2940	4374	DFPCPBS133-4	3125	4651
3/0	456	2.30	58.5	DFPCPAS167-4	3974	5914	DFPCPBS167-4	4190	6236
4/0	551	2.44	62.1	DFPCPAS211-4	4608	6858	DFPCPBS211-4	4840	7202
262.6	646	2.63	66.7	DFPCPAS262-4	5352	7965	DFPCPBS262-4	5604	8339
313.1	779	2.79	70.8	DFPCPAS313-4	6224	9262	DFPCPBS313-4	6493	9662
373.7	925	3.02	76.8	DFPCPAS373-4	7364	10959	DFPCPBS373-4	7651	11386

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

**Ampacities:** Refer to beginning of section.

Technical Data *continued*

## Type P Power/Distribution Cable, Five Conductors, 600/1000 V

Conductor		Unarmored					Armored				
Size AWG / kcmil	Strands	Nominal OD		Part Number	Net Weight		Nominal OD		Bronze		
		in	mm		lb/kft	kg/km	in	mm	Part Number	lb/kft	kg/km
8	37	0.84	21.4	DQPCP16-5	456	679	0.90	22.7	DQPCPB16-5	591	880
6	63	1.05	26.7	DQPCP26-5	736	1095	1.10	28.0	DQPCPB26-5	904	1345
5	91	1.16	29.6	DQPCP33-5	968	1441	1.22	30.9	DQPCPB33-5	1154	1717
4	105	1.21	30.8	DQPCP41-5	1081	1608	1.26	32.1	DQPCPB41-5	1274	1895
3	126	1.28	32.6	DQPCP52-5	1249	1858	1.34	33.9	DQPCPB52-5	1453	2162
2	154	1.37	34.7	DQPCP66-5	1469	2187	1.42	36.0	DQPCPB66-5	1687	2510
1	224	1.60	40.7	DQPCP83-5	2073	3085	1.66	42.0	DQPCPB83-5	2327	3463
1/0	273	1.71	43.5	DQPCP105-5	2449	3644	1.76	44.8	DQPCPB105-5	2720	4048
2/0	323	1.93	49.0	DQPCP133-5	2992	4453	1.98	50.4	DQPCPB133-5	3297	4907
3/0	456	2.18	55.3	DQPCP167-5	4016	5976	2.23	56.6	DQPCPB167-5	4360	6488
4/0	551	2.33	59.2	DQPCP211-5	4737	7049	2.38	60.6	DQPCPB211-5	5104	7596
262.6	646	2.54	64.5	DQPCP262-5	5565	8281	2.59	65.8	DQPCPB262-5	5965	8876
313.1	779	2.72	69.1	DQPCP313-5	6566	9771	2.77	70.4	DQPCPB313-5	6994	10408
373.7	925	2.97	75.5	DQPCP373-5	7847	11678	3.02	76.8	DQPCPB373-5	8315	12374

Conductor		Armored and Sheathed							
Size AWG / kcmil	Strands	Nominal OD		Aluminum			Bronze		
		in	mm	Part Number	Net Weight		Part Number	Net Weight	
					lb/kft	kg/km		lb/kft	kg/km
8	37	1.11	28.1	DQPCPAS16-5	681	1013	DQPCPBS16-5	775	1153
6	63	1.31	33.4	DQPCPAS26-5	1008	1500	DQPCPBS26-5	1124	1673
5	91	1.43	36.3	DQPCPAS33-5	1267	1885	DQPCPBS33-5	1395	2077
4	105	1.48	37.5	DQPCPAS41-5	1390	2068	DQPCPBS41-5	1524	2267
3	126	1.55	39.3	DQPCPAS52-5	1574	2343	DQPCPBS52-5	1716	2553
2	154	1.63	41.4	DQPCPAS66-5	1814	2700	DQPCPBS66-5	1965	2924
1	224	1.93	49.1	DQPCPAS83-5	2591	3856	DQPCPBS83-5	2767	4118
1/0	273	2.04	51.8	DQPCPAS105-5	2999	4463	DQPCPBS105-5	3187	4743
2/0	323	2.26	57.4	DQPCPAS133-5	3606	5367	DQPCPBS133-5	3818	5681
3/0	456	2.51	63.7	DQPCPAS167-5	4702	6997	DQPCPBS167-5	4940	7352
4/0	551	2.66	67.6	DQPCPAS211-5	5468	8137	DQPCPBS211-5	5723	8516
262.6	646	2.93	74.5	DQPCPAS262-5	6545	9739	DQPCPBS262-5	6822	10152

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

**Ampacities:** Refer to beginning of section.

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