

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

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

**CME**<sup>®</sup>  
wire and cable

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.

Cables meet applicable requirements of IEC 92-350.

## 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.

Typical applications include:

D/C motor cables, generators, transformers, top drives, and other applications that may require a highly flexible rugged power cable.

## Standards

IEEE 1580-2001

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

IEEE 45-2002

Recommended Practice for Electrical Installations on Shipboard Cable.

UL 1309-1995

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:** 18 AWG up to 1111 kcmil.

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

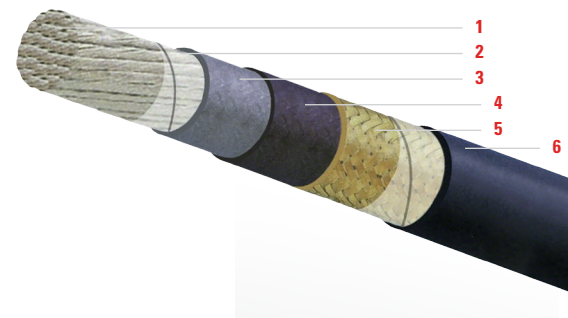
**3. Insulation:** Flame retardant and sunlight resistant Crosslinked Polyolefin (XLPO) per IEEE. Also meets and exceeds the requirements of UL and CSA for Type X110. DRILMAR® 125-XE is a 125 °C XLPO.

**4. Jacket:** Flame retardant and sunlight resistant Arctic Type Chlorinated Polyethylene (CPE) per IEEE, UL and CSA.

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

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

**6. Jacket (overall optional):** Flame retardant and sunlight resistant Arctic Type Chlorinated Polyethylene (CPE) per IEEE, UL, and CSA.



Technical Data

Type P Power/Distribution Cable, 600/1000 V

Conductor		Unarmored					Armored							
Size AWG / kcmil	Strands	Nominal OD		Part Number	Net Weight		Nominal OD		Aluminum			Bronze		
		in	mm		lb/kft	kg/km	in	mm	Part Number	Net Weight		Part Number	Net Weight	
										lb/kft	kg/km		lb/kft	kg/km
18	19	0.12	3.0	DSSP1-1	11	17	0.17	4.2	DSSPA1-1	19	28	DSSPB1-1	35	52
16	19	0.13	3.2	DSSP2-1	14	21	0.18	4.5	DSSPA2-1	22	33	DSSPB2-1	39	58
14	19	0.14	3.6	DSSP4-1	20	29	0.19	4.9	DSSPA4-1	29	43	DSSPB4-1	48	71
12	19	0.16	4.1	DSSP6-1	28	42	0.21	5.4	DSSPA6-1	39	58	DSSPB6-1	60	89
10	27	0.19	4.9	DSSP10-1	45	67	0.25	6.2	DSSPA10-1	57	85	DSSPB10-1	82	122
8	37	0.25	6.3	DSSP16-1	66	98	0.30	7.6	DSSPA16-1	82	122	DSSPB16-1	113	168
6	63	0.31	7.9	DSSP26-1	107	159	0.36	9.1	DSSPA26-1	127	189	DSSPB26-1	165	245
5	91	0.35	9.0	DSSP33-1	147	218	0.40	10.2	DSSPA33-1	171	254	DSSPB33-1	213	317
4	105	0.37	9.4	DSSP41-1	167	248	0.42	10.7	DSSPA41-1	192	285	DSSPB41-1	236	351
3	126	0.40	10.1	DSSP52-1	196	292	0.45	11.4	DSSPA52-1	223	332	DSSPB52-1	271	403
2	154	0.43	10.9	DSSP66-1	235	350	0.48	12.1	DSSPA66-1	265	395	DSSPB66-1	316	470
1	224	0.51	13.1	DSSP83-1	342	509	0.57	14.4	DSSPA83-1	379	565	DSSPB83-1	440	655
1/0	273	0.56	14.1	DSSP105-1	410	610	0.61	15.4	DSSPA105-1	451	671	DSSPB105-1	516	769
2/0	323	0.61	15.6	DSSP133-1	485	722	0.66	16.8	DSSPA133-1	532	791	DSSPB133-1	604	898
3/0	456	0.70	17.9	DSSP167-1	669	996	0.75	19.2	DSSPA167-1	725	1079	DSSPB167-1	807	1201
4/0	551	0.76	19.3	DSSP211-1	799	1190	0.81	20.6	DSSPA211-1	861	1282	DSSPB211-1	950	1414
262.6	646	0.84	21.3	DSSP262-1	947	1410	0.89	22.6	DSSPA262-1	1018	1515	DSSPB262-1	1115	1659
313.1	779	0.90	23.0	DSSP313-1	1130	1681	0.96	24.3	DSSPA313-1	1208	1798	DSSPB313-1	1313	1954
373.7	925	0.97	24.7	DSSP373-1	1329	1978	1.02	26.0	DSSPA373-1	1416	2108	DSSPB373-1	1529	2275
444.4	1110	1.05	26.7	DSSP444-1	1581	2353	1.10	28.0	DSSPA444-1	1678	2498	DSSPB444-1	1800	2678
535.3	1332	1.17	29.8	DSSP535-1	1919	2855	1.22	31.0	DSSPA535-1	2033	3025	DSSPB535-1	2167	3225
646.4	1591	1.26	32.1	DSSP646-1	2271	3380	1.31	33.4	DSSPA646-1	2399	3569	DSSPB646-1	2543	3785
777.7	1924	1.37	34.8	DSSP777-1	2723	4052	1.42	36.1	DSSPA777-1	2867	4266	DSSPB777-1	3024	4500
1111.1	2745	1.67	42.4	DSSP1111-1	3932	5851	1.72	43.7	DSSPA1111-1	4126	6140	DSSPB1111-1	4316	6423

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, 600/1000 V

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
18	19	0.27	6.9	DSSPAS1-1	41	61	DSSPBS1-1	56	84
16	19	0.28	7.2	DSSPAS2-1	45	67	DSSPBS2-1	61	91
14	19	0.30	7.6	DSSPAS4-1	53	79	DSSPBS4-1	71	106
12	19	0.32	8.1	DSSPAS6-1	65	97	DSSPBS6-1	85	127
10	27	0.35	8.9	DSSPAS10-1	86	128	DSSPBS10-1	110	163
8	37	0.41	10.3	DSSPAS16-1	116	172	DSSPBS16-1	145	216
6	63	0.47	11.9	DSSPAS26-1	165	246	DSSPBS26-1	201	300
5	91	0.51	12.9	DSSPAS33-1	212	315	DSSPBS33-1	253	376
4	105	0.53	13.4	DSSPAS41-1	234	349	DSSPBS41-1	277	412
3	126	0.58	14.8	DSSPAS52-1	285	424	DSSPBS52-1	331	492
2	154	0.62	15.6	DSSPAS66-1	330	491	DSSPBS66-1	379	564
1	224	0.70	17.9	DSSPAS83-1	452	673	DSSPBS83-1	511	760
1/0	273	0.74	18.9	DSSPAS105-1	528	785	DSSPBS105-1	591	879
2/0	323	0.80	20.3	DSSPAS133-1	613	913	DSSPBS133-1	682	1015
3/0	456	0.94	23.8	DSSPAS167-1	853	1269	DSSPBS167-1	932	1386
4/0	551	0.99	25.2	DSSPAS211-1	996	1482	DSSPBS211-1	1081	1609
262.6	646	1.07	27.2	DSSPAS262-1	1161	1727	DSSPBS262-1	1254	1866
313.1	779	1.14	28.9	DSSPAS313-1	1358	2021	DSSPBS313-1	1459	2171
373.7	925	1.21	30.6	DSSPAS373-1	1573	2341	DSSPBS373-1	1681	2502
444.4	1110	1.28	32.6	DSSPAS444-1	1843	2742	DSSPBS444-1	1959	2916
535.3	1332	1.40	35.7	DSSPAS535-1	2207	3284	DSSPBS535-1	2336	3477
646.4	1591	1.50	38.0	DSSPAS646-1	2580	3839	DSSPBS646-1	2719	4047
777.7	1924	1.60	40.7	DSSPAS777-1	3056	4548	DSSPBS777-1	3207	4773
1111.1	2745	1.96	50.0	DSSPAS1111-1	4453	6626	DSSPBS1111-1	4636	6899

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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