Type LS Drilmar® LS Power/Distribution Cable Multiconductor

HF XLPE Insulated, SHF1 Jacketed, Drilling Rig and Marine Cable, 600/1000 V

CME wire and cable®
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Features

Enginnered for easiest installation.

Maximum conductor operating temperature:

- 90 °C as per IEC.

Drilmar® HF XLPE Insulation:

- Low Smoke and Halogen Free XLPE meeting IEC 60092-351.
- Rated at 90 °C.

SHF1 Jacket:

- Low Smoke and Halogen Free Polyolefin metting IEC 60092-359.

Completed cable offers superior flame resistance meeting:

- IEC 60332-1 and IEC 60332-3-22 Category A.
- Low Smake as per IEC 61034-2.
- Halogen Free as per IEC 60754-1.

Application

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 pane feeders; transformer feeders; lighting panels; light fixtures; plugs/receptacles and remote controls.

Standards

IEC 60092-350

General construction and test methods of power, control and instumentation cables for shipboard and offshore applications.

IEC 60092-351

Insulating materials for shipboard and offshore units, power, control, instrumentation, telecommunication and data cables.

IEC 60092-353

Power cables for rated voltages 1 kV and 3 kV.

IEC 60092-359

Sheathing materials for shipboard power and telecommunication cables.

IEC 60092-352

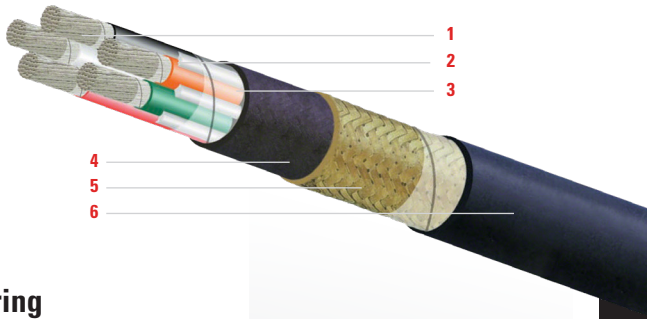
Electrical installations in ships - Part 352: Choice and installation of electrical cables.

IEEE 45 - 2002

Recommended Practice for Electrical Installations on Shipboard Cable, as noted in Clause 23.3 for products manufactured per IEC 60092-350 series.

Approvals

- Intertek, as Type HF XLPE / SHF1.
- ABS, American Bureau of Shipping.
- LRS, Lloyd's Register of Shipping.
- DNV, Det Norske Veritas



Engineering Information

1. Conductor: Soft annealed flexible Tin Coated Copper, Class 5 as per IEC 60228.

Sizes: 4 mm^2 up to 300 mm^2.

2. Separator Tape: Suitable tape as required.

3. Insulation: Low Smaoke Halogen Free flame retardant Crosslined Polyethylene (HF XLPE.).

Core Identification:

2 Core:	Brown-Blue.
3 Core:	Brown-Black-Grey.
	Brown-Blue-Green/ Yellow.
4 Core:	Brown-Black-Grey-Blue.
	Brown-Black-Grey-Green/Yellow.
5 Core:	Solid color with printed numbers.

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

4. Jacket: Black Low Smoke Halogen Free flame retardant thermoplastic Polyolefin (SHF1).

5. Armor (optional):

Optional - Tinned Copper Braid.

6. Jacket (overall): Black Low Smoke Halogen Free flame retardant thermoplastic Polyolefin (SHF1).

On request: Grey Jacket is available.

Drilmar® Marine Cable

Type LS Power/Distribution Cable, Two (2) Conductor, 600/1000 V

Conductor Size mm²	Unarmored					Armored					Armored and Sheathed				
						Tinned Copper					Tinned Copper				
	Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight	
		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km
10	DDLSSHF-10-2	0.57	14.6	244	363	DDLSSHF-T10-1	0.63	16.1	350	521	DDLSSHF-TS10-2	0.72	18.2	408	607
16	DDLSSHF-16-2	0.70	17.8	366	544	DDLSSHF-T16-2	0.75	19.1	487	725	DDLSSHF-TS16-2	0.85	21.6	570	848
25	DDLSSHF-25-2	0.85	21.7	551	820	DDLSSHF-T25-2	0.90	23.0	698	1039	DDLSSHF-TS25-2	1.01	25.7	806	1199
35	DDLSSHF-35-2	0.98	24.8	749	1115	DDLSSHF-T35-2	1.03	26.1	917	1364	DDLSSHF-TS35-2	1.15	29.1	1050	1563
50	DDLSSHF-50-2	1.16	29.6	1072	1595	DDLSSHF-T50-2	1.21	30.8	1271	1891	DDLSSHF-TS50-2	1.34	34.0	1439	2141
70	DDLSSHF-70-2	1.34	33.9	1430	2128	DDLSSHF-T70-2	1.40	35.6	1718	2556	DDLSSHF-TS70-2	1.53	39.0	1923	2862
95	DDLSSHF-95-2	1.52	38.7	1919	2855	DDLSSHF-T95-2	1.59	40.3	2246	3342	DDLSSHF-TS95-2	1.73	43.9	2488	3703
120	DDLSSHF-120-2	1.68	42.8	2396	3565	DDLSSHF-T120-2	1.75	44.4	2756	4102	DDLSSHF-TS120-2	1.90	48.2	3038	4522
150	DDLSSHF-150-2	1.89	48.0	2998	4461	DDLSSHF-T150-2	1.95	49.6	3402	5062	DDLSSHF-TS150-2	2.11	53.6	3738	5563
185	DDLSSHF-185-2	2.09	53.1	3682	5479	DDLSSHF-T185-2	2.15	54.7	4128	6143	DDLSSHF-TS185-2	2.33	59.1	4537	6752
240	DDLSSHF-240-2	2.34	59.5	4697	6989	DDLSSHF-T240-2	2.41	61.2	5196	7733	DDLSSHF-TS240-2	2.59	65.8	5674	8444
300	DDLSSHF-300-2	2.59	65.7	5771	8588	DDLSSHF-T300-2	2.65	67.4	6321	9407	DDLSSHF-TS300-2	2.85	72.4	6901	10269

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.

Type LS Power/Distribution Cable, Three (3) Conductor, 600/1000 V

Conductor Size mm²	Unarmored					Armored					Armored and Sheathed				
						Tinned Copper					Tinned Copper				
	Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight	
		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km
10	DTLSSHF-10-2	0.61	15.5	320	477	DTLSSHF-T10-1	0.67	16.9	433	644	DTLSSHF-TS10-2	0.75	19.1	493	734
16	DTLSSHF-16-2	0.74	18.9	482	717	DTLSSHF-T16-2	0.79	20.2	611	909	DTLSSHF-TS16-2	0.89	22.7	698	1039
25	DTLSSHF-25-2	0.92	23.3	740	1101	DTLSSHF-T25-2	0.97	24.5	897	1335	DTLSSHF-TS25-2	1.07	27.3	1012	1505
35	DTLSSHF-35-2	1.04	26.5	1003	1493	DTLSSHF-T35-2	1.09	27.7	1182	1759	DTLSSHF-TS35-2	1.21	30.7	1323	1969
50	DTLSSHF-50-2	1.25	31.8	1426	2121	DTLSSHF-T50-2	1.31	33.4	1695	2523	DTLSSHF-TS50-2	1.44	36.6	1876	2792
70	DTLSSHF-70-2	1.43	36.4	1913	2847	DTLSSHF-T70-2	1.50	38.0	2221	3306	DTLSSHF-TS70-2	1.64	41.6	2451	3647
95	DTLSSHF-95-2	1.64	41.6	2593	3858	DTLSSHF-T95-2	1.70	43.2	2944	4380	DTLSSHF-TS95-2	1.85	47.0	3218	4790
120	DTLSSHF-120-2	1.81	45.9	3189	4746	DTLSSHF-T120-2	1.87	47.5	3576	5322	DTLSSHF-TS120-2	2.03	51.5	3899	5802
150	DTLSSHF-150-2	2.03	51.5	4003	5957	DTLSSHF-T150-2	2.09	53.1	4436	6601	DTLSSHF-TS150-2	2.26	57.3	4814	7164
185	DTLSSHF-185-2	2.24	57.0	4921	7324	DTLSSHF-T185-2	2.31	58.6	5400	8036	DTLSSHF-TS185-2	2.49	63.2	5859	8718
240	DTLSSHF-240-2	2.52	64.1	6385	9502	DTLSSHF-T240-2	2.59	65.7	6922	10301	DTLSSHF-TS240-2	2.78	70.5	7457	11098
300	DTLSSHF-300-2	2.78	70.5	7824	11643	DTLSSHF-T300-2	2.84	72.2	8414	12522	DTLSSHF-TS300-2	3.05	77.4	9059	13482

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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Technical Data *continued*

Type LS Power/Distribution Cable, Four (4) Conductor, 600/1000 V

Conductor Size mm²	Unarmored					Armored					Armored and Sheathed				
						Tinned Copper					Tinned Copper				
	Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight	
		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km
10	DFLSSHF-10-2	0.68	17.2	416	619	DFLSSHF-T10-1	0.73	18.4	533	793	DFLSSHF-TS10-2	0.83	21.0	614	913
16	DFLSSHF-16-2	0.83	21.0	626	931	DFLSSHF-T16-2	0.88	22.3	769	1144	DFLSSHF-TS16-2	0.99	25.0	873	1299
25	DFLSSHF-25-2	1.02	25.8	962	1431	DFLSSHF-T25-2	1.07	27.1	1136	1691	DFLSSHF-TS25-2	1.19	30.1	1274	1896
35	DFLSSHF-35-2	1.16	29.5	1308	1946	DFLSSHF-T35-2	1.21	30.7	1506	2242	DFLSSHF-TS35-2	1.34	33.9	1674	2491
50	DFLSSHF-50-2	1.39	35.3	1851	2755	DFLSSHF-T50-2	1.45	36.9	2150	3199	DFLSSHF-TS50-2	1.59	40.3	2362	3516
70	DFLSSHF-70-2	1.59	40.5	2487	3701	DFLSSHF-T70-2	1.66	42.1	2828	4209	DFLSSHF-TS70-2	1.81	45.8	3096	4608
95	DFLSSHF-95-2	1.82	46.2	3356	4995	DFLSSHF-T95-2	1.88	47.8	3745	5574	DFLSSHF-TS95-2	2.04	51.8	4070	6057
120	DFLSSHF-120-2	2.02	51.2	4190	6236	DFLSSHF-T120-2	2.08	52.8	4620	6876	DFLSSHF-TS120-2	2.25	57.0	4997	7436
150	DFLSSHF-150-2	2.27	57.7	5291	7874	DFLSSHF-T150-2	2.34	59.3	5775	8594	DFLSSHF-TS150-2	2.52	63.9	6239	9285
185	DFLSSHF-185-2	2.51	63.7	6486	9653	DFLSSHF-T185-2	2.57	65.4	7020	10447	DFLSSHF-TS185-2	2.76	70.2	7553	11241
240	DFLSSHF-240-2	2.82	71.6	8310	12367	DFLSSHF-T240-2	2.88	73.2	8909	13258	DFLSSHF-TS240-2	3.09	78.5	9563	14231
300	DFLSSHF-300-2	3.10	78.8	10308	15340	DFLSSHF-T300-2	3.17	80.4	10967	16320	DFLSSHF-TS300-2	3.39	86.1	11741	17472

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.

Type LS Power/Distribution Cable, Five (5) Conductor, 600/1000 V

Conductor Size mm²	Unarmored					Armored					Armored and Sheathed				
						Tinned Copper					Tinned Copper				
	Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight	
		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km
10	DQLSSHF-10-2	0.73	18.6	520	774	DQLSSHF-T10-1	0.78	19.9	647	963	DQLSSHF-TS10-2	0.88	22.5	734	1092
16	DQLSSHF-16-2	0.91	23.0	798	1187	DQLSSHF-T16-2	0.96	24.3	954	1420	DQLSSHF-TS16-2	1.07	27.1	1067	1588
25	DQLSSHF-25-2	1.12	28.5	1229	1829	DQLSSHF-T25-2	1.17	29.8	1421	2114	DQLSSHF-TS25-2	1.30	33.0	1583	2356
35	DQLSSHF-35-2	1.28	32.5	1674	2492	DQLSSHF-T35-2	1.34	34.1	1950	2902	DQLSSHF-TS35-2	1.48	37.5	2147	3196
50	DQLSSHF-50-2	1.54	39.1	2389	3555	DQLSSHF-T50-2	1.60	40.7	2719	4047	DQLSSHF-TS50-2	1.74	44.3	2964	4411
70	DQLSSHF-70-2	1.77	44.9	3208	4774	DQLSSHF-T70-2	1.83	46.6	3586	5337	DQLSSHF-TS70-2	1.99	50.6	3903	5808
95	DQLSSHF-95-2	2.02	51.2	4322	6432	DQLSSHF-T95-2	2.08	52.9	4753	7073	DQLSSHF-TS95-2	2.25	57.1	5130	7634
120	DQLSSHF-120-2	2.24	56.8	5336	7941	DQLSSHF-T120-2	2.30	58.4	5813	8651	DQLSSHF-TS120-2	2.48	63.1	6271	9332
150	DQLSSHF-150-2	2.52	64.0	6735	10023	DQLSSHF-T150-2	2.58	65.6	7271	10821	DQLSSHF-TS150-2	2.77	70.4	7806	11616
185	DQLSSHF-185-2	2.78	70.7	8251	12279	DQLSSHF-T185-2	2.85	72.3	8843	13159	DQLSSHF-TS185-2	3.05	77.6	9489	14121
240	DQLSSHF-240-2	3.13	79.6	10606	15784	DQLSSHF-T240-2	3.20	81.2	11272	16774	DQLSSHF-TS240-2	3.42	86.9	12053	17937
300	DQLSSHF-300-2	3.46	87.9	13033	19395	DQLSSHF-T300-2	3.52	89.5	13767	20487	DQLSSHF-TS300-2	3.77	95.6	14697	21872

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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