

Type LS Drilmar® LS Power/Distribution Cable

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

CME[®]
wire and cable

A Viakable Company

Features

Engineered 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 meeting IEC 60092-359.

Completed cable offers superior flame resistance meeting:

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

Application

DRILMAR® LS 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

IEC 60092-350

General construction and test methods of power, control and instrumentation 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

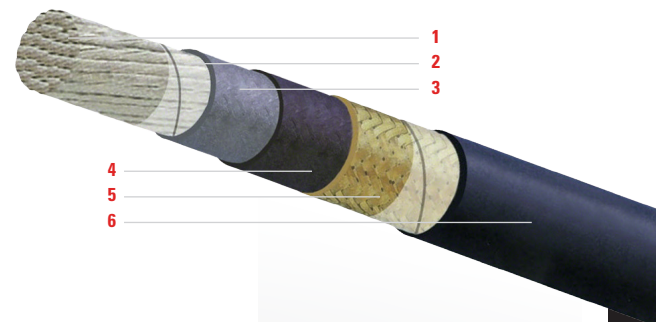
Electrical installations in ships - Part 352: Choice and installation of electrical cables.

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: 1 mm² up to 630 mm².

2. Separator Tape: Suitable tape as required.

3. Insulation: Low Smoke Halogen Free flame retardant Crosslinked Polyethylene (HF XLPE.).

4. Jacket (optional):

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.

Technical Data

Type LS Power/Distribution Cable, Single Conductor, 600/1000 V

Conductor Size mm²	Unarmored					Armored					Armored and Sheathed				
	Part Number	Nominal OD		Net Weight		Tinned Copper					Tinned Copper				
		in	mm	lb/kft	kg/km	Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight	
							in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km
1	DSLSSH-F-1-1	0.19	4.9	25	37	DSLSSH-F-T1-1	0.26	6.6	59	87	DSLSSH-F-TS1-1	0.30	7.7	68	101
1.5	DSLSSH-F-1.5-1	0.21	5.2	29	44	DSLSSH-F-T1.5-1	0.27	6.9	65	96	DSLSSH-F-TS1.5-1	0.31	8.0	75	111
2.5	DSLSSH-F-2.5-1	0.22	5.7	39	57	DSLSSH-F-T2.5-1	0.29	7.3	77	114	DSLSSH-F-TS2.5-1	0.33	8.4	87	130
4	DSLSSH-F-4-1	0.24	6.2	51	76	DSLSSH-F-T4-1	0.31	7.9	92	137	DSLSSH-F-TS4-1	0.35	8.9	104	154
6	DSLSSH-F-6-1	0.27	6.9	67	100	DSLSSH-F-T6-1	0.34	8.6	112	167	DSLSSH-F-TS6-1	0.38	9.7	125	186
10	DSLSSH-F-10-1	0.31	7.9	99	147	DSLSSH-F-T10-1	0.38	9.6	150	223	DSLSSH-F-TS10-1	0.42	10.7	164	244
16	DSLSSH-F-16-1	0.38	9.6	149	222	DSLSSH-F-T16-1	0.46	11.6	232	345	DSLSSH-F-TS16-1	0.50	12.6	231	344
25	DSLSSH-F-25-1	0.46	11.7	226	336	DSLSSH-F-T25-1	0.53	13.4	319	475	DSLSSH-F-TS25-1	0.59	15.1	355	528
35	DSLSSH-F-35-1	0.52	13.1	303	451	DSLSSH-F-T35-1	0.58	14.8	407	605	DSLSSH-F-TS35-1	0.66	16.7	452	672
50	DSLSSH-F-50-1	0.61	15.6	428	637	DSLSSH-F-T50-1	0.67	17.0	541	806	DSLSSH-F-TS50-1	0.76	19.2	602	896
70	DSLSSH-F-70-1	0.70	17.8	582	851	DSLSSH-F-T70-1	0.75	19.0	693	1031	DSLSSH-F-TS70-1	0.85	21.6	776	1154
95	DSLSSH-F-95-1	0.79	20.1	770	1146	DSLSSH-F-T95-1	0.84	21.4	907	1349	DSLSSH-F-TS95-1	0.94	24.0	999	1487
120	DSLSSH-F-120-1	0.87	22.2	945	1407	DSLSSH-F-T120-1	0.92	23.5	1096	1631	DSLSSH-F-TS120-1	1.03	26.2	1205	1794
150	DSLSSH-F-150-1	0.98	24.8	1185	1764	DSLSSH-F-T150-1	1.03	26.1	1353	2014	DSLSSH-F-TS150-1	1.15	29.1	1487	2212
185	DSLSSH-F-185-1	1.07	27.2	1442	2146	DSLSSH-F-T185-1	1.12	28.4	1625	2418	DSLSSH-F-TS185-1	1.24	31.4	1770	2633
240	DSLSSH-F-240-1	1.21	30.6	1857	2764	DSLSSH-F-T240-1	1.27	32.2	2117	3151	DSLSSH-F-TS240-1	1.40	35.4	2292	3411
300	DSLSSH-F-300-1	1.32	33.6	2275	3386	DSLSSH-F-T300-1	1.39	35.3	2560	3810	DSLSSH-F-TS300-1	1.52	38.7	2764	4113
400	DSLSSH-F-400-1	1.50	38.2	2993	4454	DSLSSH-F-T400-1	1.57	39.8	3316	4934	DSLSSH-F-TS400-1	1.71	43.3	3555	5291
500	DSLSSH-F-500-1	1.67	42.5	3734	5557	DSLSSH-F-T500-1	1.74	44.1	4093	6091	DSLSSH-F-TS500-1	1.89	47.9	4374	6509
630	DSLSSH-F-630-1	1.88	47.7	4754	7075	DSLSSH-F-T630-1	1.94	49.4	5156	7673	DSLSSH-F-TS630-1	2.10	53.4	5491	8171

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.