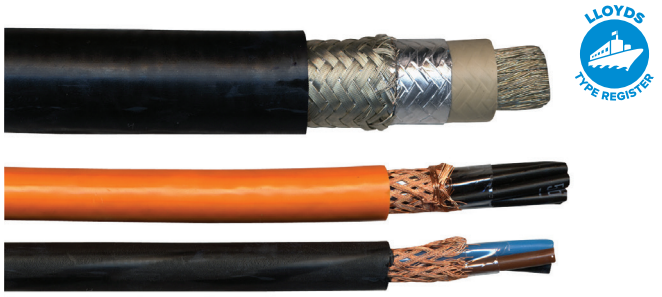
SMA SERIES

Standard Performance Fixed LSHF CBS Shipboard / Offshore Power Cable 0.6/1kV 90°C



APPLICATIONS:

Marine For fixed wiring installations on oil and gas rigs, shipboard and other marine applications requiring screened cable for EMC.
Rail or Rolling Stock Suitable for wiring in locomotives, rail cars, buses and coaches.

PRODUCT FEATURES:

- Low smoke halogen free
- PVC free
- Lloyds approved
- UV stabilised
- Flame retardant
- To be earthed at both ends using EMC compatible glands
- Heat, oil and chemical resistant *(See Technical Section)*

CONSTRUCTION:

Conductor Annealed plain copper stranded (Class 2).
Insulation XLPE halogen free X90.
Inner Covering (If any) Halogen free compound (IEC 60092-353).
Screening Tinned or plain copper braid.
Sheath Polyolefine compound SHF (IEC 60092-353 & 3.7.3A).

CHARACTERISTICS:

Operating Temperature Range Fixed -15°C to 90°C.
Maximum Conductor temperature 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
Rated Voltage Uo/U 0.6/1kV **Max AC Operating Voltage** Uo 0.7kV.
Minimum Bending Radius Up to 25mm² 4 x cable diameter / Over 25mm² 6 x cable diameter.
Sheath Colour Orange or Black.
Standard Core Colours
Without Earth Conductor:
2 Core – Blue, Brown.
3 Core – Grey, Black, Brown.
4 Core – Blue, Black, Grey, Brown.
Multi Core – Black Numbered.
Certification Society Approvals Lloyds, Type CJPJ85 or HFX-A/CU, ABS type YOZp, BV type YOZp, other approvals available on request.
Relevant Standards IEC 61034, IEC 60754, IEC 60332-3-22, IEC 60092-350/351/352/353/359, IEC 60754-1/2, IEC 61034-1/2, IEC 60332-1, CE Directive 2006/95/EC, RoHS Compliant.

SINGLE CORE

Code	No. of Cores x Size (mm²)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 3 phase			3 Phase Volt Drop @ 50Hz / MAX. conductor temp: 90°C (Mv/Am)
					Spaced	Spaced from Surface	Touching	
SMA1/10	1 x 10.0	7/1.35	9.2	170	88	76	94	4.050
SMA1/16	1 x 16.0	7/1.70	10.2	235	117	100	125	2.550
SMA1/25	1 x 25.0	7/2.13	12.0	350	156	133	155	1.620
SMA1/35	1 x 35.0	7/2.52	12.8	440	195	166	196	1.170
SMA1/50	1 x 50.0	19/1.83	16.0	660	245	210	248	0.872
SMA1/70	1 x 70.0	19/2.17	18.0	890	311	265	298	0.615

Product table continued over ▶

SMA SERIES continued

SINGLE CORE

Code	No. of Cores x Size (mm²)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 3 phase			3 Phase Volt Drop @ 50Hz / MAX. conductor temp: 90°C (Mv/Am)
					Spaced	Spaced from Surface	Touching	
SMA1/95	1 x 95.0	19/2.52	20.0	1180	375	319	354	0.457
SMA1/120	1 x 120.0	37/2.03	21.5	1440	447	381	409	0.373
SMA1/150	1 x 150.0	37/2.27	24.0	1760	517	440	409	0.316
SMA1/185	1 x 185.0	37/2.52	26.0	2140	594	505	470	0.269
SMA1/240	1 x 240.0	61/2.24	29.0	2760	716	608	565	0.227

MULTI CORE

Code	No. of Cores x Size (mm²)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application	3 Phase Volt Drop @ 50Hz / MAX. conductor temp: 90°C (Mv/Am)
					Touching	
SMA2/1.5	2 x 1.5	7/0.52	10.2	120	25	30.000
SMA2/2.5	2 x 2.5	7/0.67	11.1	150	33	16.400
SMA2/4.0	2 x 4.0	7/0.85	12.3	195	44	10.200
SMA2/10	2 x 10.0	7/1.35	16.0	425	79	4.050
SMA2/16	2 x 16.0	7/1.70	18.5	590	106	2.550
SMA2/25	2 x 25.0	7/2.13	22.1	860	141	1.610
SMA3/1.5	3 x 1.5	7/0.52	10.4	145	25	30.000
SMA3/2.5	3 x 2.5	7/0.67	11.0	185	33	16.400
SMA3/4.0	3 x 4.0	7/0.85	12.4	243	44	10.200
SMA3/6.0	3 x 6.0	7/1.05	13.6	340	56	6.800
SMA3/10	3 x 10.0	7/1.35	16.0	520	79	4.050
SMA3/16	3 x 16.0	7/1.70	19.0	750	106	2.550
SMA3/25	3 x 25.0	7/2.13	22.5	1120	141	1.610
SMA3/35	3 x 35.0	7/2.52	26.5	1660	149	1.170
SMA3/50	3 x 50.0	19/1.83	29.0	2100	187	0.868
SMA3/70	3 x 70.0	19/2.17	34.0	2950	235	0.609
SMA3/95	3 x 95.0	19/2.52	39.0	4010	282	0.450
SMA3/120	3 x 120.0	37/2.03	42.0	4990	333	0.366
SMA4/1.5	4 x 1.5	7/0.52	10.8	180	21	30.000
SMA4/2.5	4 x 2.5	7/0.67	12.2	225	29	16.400
SMA4/4.0	4 x 4.0	7/0.85	13.4	305	37	10.200
SMA4/6.0	4 x 6.0	7/1.05	15.5	410	47	6.800
SMA4/10	4 x 10.0	7/1.35	18.0	635	67	4.050
SMA4/25	4 x 25.0	7/2.13	25.0	1360	119	1.610

Product table continued over ▶

SMA SERIES continued

MULTI CORE

Code	No. of Cores x Size (mm²)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application Touching	3 Phase Volt Drop @ 50Hz / MAX. conductor temp: 90°C (Mv/Am)
SMA4/35	4 x 35.0	7/2.52	29.0	2070	149	1.170
SMA4/50	4 x 50.0	19/1.83	32.0	2640	187	0.868
SMA4/70	4 x 70.0	19/2.17	37.5	3700	235	0.609
SMA4/95	4 x 95.0	19/2.52	42.5	5070	282	0.450
SMA4/120	4 x 120.0	37/2.03	46.5	6300	333	0.366
SMA5/1.5	5 x 1.5	7/0.52	12.0	200	21	30.000
SMA5/2.5	5 x 2.5	7/0.67	12.6	242	29	16.400
SMA5/4.0	5 x 4.0	7/0.85	16.2	346	37	10.200
SMA5/6.0	5 x 6.0	7/1.05	18.1	479	47	6.800
SMA5/10	5 x 10.0	7/1.35	20.3	737	67	4.050
SMA5/16	5 x 16.0	7/1.70	24.5	1156	89	2.550
SMA5/25	5 x 25.0	7/2.13	29.2	1781	119	1.610
SMA5/35	5 x 35.0	7.252	33.4	2537	149	1.170
SMA7/1.5	7 x 1.5	7/0.52	12.8	245	15	30.000
SMA10/1.5	10 x 1.5	7/0.52	16.5	380	15	30.000
SMA12/1.5	12 x 1.5	7/0.52	17.5	435	15	30.000
SMA14/1.5	14 x 1.5	7/0.52	18.5	485	15	30.000
SMA16/1.5	16 x 1.5	7/0.52	19.0	530	15	30.000
SMA19/1.5	19 x 1.5	7/0.52	20.0	610	15	30.000
SMA24/1.5	24 x 1.5	7/0.52	23.5	760	15	30.000
SMA27/1.5	27 x 1.5	7/0.52	24.0	830	15	30.000
SMA30/1.5	30 x 1.5	7/0.52	24.5	900	15	30.000
SMA37/1.5	37 x 1.5	7/0.52	26.5	1060	15	30.000

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