

**APPLICATION**

Fixed wiring used in ships, yachts & boats, battery connections in control panels, switch boards, electrical enclosures in ships and also used as fixed installation in various electromechanical equipments.

The cable is Flame Retardant, Low Smoke Zero Halogen, without poisoned and corrosive gasses and suitable for all commercial marine applications.

CONSTRUCTION

Conductor	Tinned annealed flexible copper-Class 5 according to IEC 60228 (Class 2 and/or bare copper available or request.)
Insulation	Halogen Free Flame Retardant E-Beam irradiation Cross-Linked Compound according to IEC 60092-360 (HF90)
Sheath Colour	Black, Red, Blue and Green-Yellow (other colours are available upon request)

TECHNICAL FEATURES

Rated Voltage (U0/U)	600 / 1000 V
Test Voltage	3,5 kV
Operating Temperature	-40°C / +125°C
Max. Conductor Temperature	+145°C
Lowest Installation Temperature	-15°C
Max. Short Circuit Temperature	+280°C
Bending Radius (fixed installation)	4 x Outer Diameter

DESIGN STANDARDS

Construction	IEC 60092 / 353
Test And Material	IEC 60092 / 350-360
Flame Retardancy	IEC 60332 / 1-2, IEC 60332 / 3-22 Cat A
Halogen Content	IEC 60754 / 1-2
Smoke Emission	IEC 61034 / 1-2
Ozon Resistance	IEC60811 / 403

CODING:

S: Solen Cable M:Marine X: Crosslinked Insulation

CABLE MARKING

SOLEN CABLE SMX 125 1xN mm² 600/1000 V IEC 60092-353 IEC 60332-3-22 Cat.A SCXXXX (yyyy) XX MT

SOLEN BEAM SMX 125 1xN mm² 600/1000 V IEC 60092-353 IEC 60332-3-22 Cat.A SCXXXX (yyyy) XX MT

*N: Cross Section *SCXXXX: Traceability Code *(yyyy): Year marking *XX MT: Meter Marking



Customer:

Date:

Solen Kablo San. Tic. A.Ş.
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DIMENSIONAL PARAMETERS

PART NO.	NUMBER OF CORES	CROSS SECTIONS mm ²	OVERALL DIAMETER mm	BENDING RADIUS (min.) mm	APP. WEIGHT kg/km
SMX60010CL000	1	1	2,7 -0,2 /+0,3	10,8	14
SMX60015CL000	1	1,5	3,0 -0,2 /+0,3	11,6	19
SMX60025CL000	1	2,5	3,3 -0,2 /+0,3	13,2	27
SMX60040CL000	1	4	3,9 -0,2 /+0,3	15,6	41
SMX60060CL000	1	6	4,4 -0,2 /+0,3	17,2	57
SMX60100CL000	1	10	5,4 -0,2 /+0,3	21,2	96
SMX60160CL000	1	16	6,4 -0,2 /+0,3	25,2	148
SMX60250CL000	1	25	8,0 -0,3 /+0,5	32,0	228
SMX60350CL000	1	35	9,4 -0,3 /+0,5	37,2	325
SMX60500CL000	1	50	11,2 -0,3 /+0,5	43,6	459
SMX60700CL000	1	70	12,8 -0,3 /+0,5	50,8	639
SMX60950CL000	1	95	14,7 -0,3 /+0,5	57,2	837
SMX61200CL000	1	120	16,6 -0,3 /+0,5	66,4	1070
SMX61500CL000	1	150	18,5 -0,3 /+0,5	74,0	1315
SMX61850CL000	1	185	20,7 -0,3 /+0,5	82,80	1652
SMX62400CL000	1	240	23,6 -0,3 /+0,5	94,4	2155

CL refers to colour for :

Red replace RD Green/Yellow replace GY Black replace BK Blue replace BL

ELECTRICAL PARAMETERS

PART NO.	NUMBER OF CORES	CROSS SECTIONS mm ²	MAX. CONDUCTOR RESISTANCE (*) 20 °C ohm/km	CURRENT CARRYING CAPACITY (**) A	SHORT CIRCUIT CURRENT (1 sec. from 90°C to 250°C) kA	SHORT CIRCUIT CURRENT (1 sec. from 125°C to 280°C) kA
SMX60010CL000	1	1	20,0	23	0,143	0,135
SMX60015CL000	1	1,5	13,7	29	0,215	0,203
SMX60025CL000	1	2,5	8,21	43	0,358	0,338
SMX60040CL000	1	4	5,09	57	0,572	0,541
SMX60060CL000	1	6	3,39	72	0,858	0,812
SMX60100CL000	1	10	1,95	104	1,430	1,354
SMX60160CL000	1	16	1,24	138	2,288	2,166
SMX60250CL000	1	25	0,795	180	3,575	3,384
SMX60350CL000	1	35	0,565	225	5,005	4,738
SMX60500CL000	1	50	0,393	283	7,150	6,769
SMX60700CL000	1	70	0,277	356	10,010	9,477
SMX60950CL000	1	95	0,210	424	13,585	12,862
SMX61200CL000	1	120	0,1640	499	17,160	16,247
SMX61500CL000	1	150	0,1320	564	21,450	20,308
SMX61850CL000	1	185	0,1080	643	26,455	25,047
SMX62400CL000	1	240	0,0817	752	34,320	32,494

(*) Tinned Class 5 conductors based on IEC 60228

(**) At 45 °C Ambient temperature and cable operating temperature 125 °C. Based on IEC 60092-352 Annex B

Current ratings shall be subjected to group correction factors written in IEC 60092-352 in case of group installed conductors or cables.

CURRENT RATING CONVERSION FACTORS FOR DIFFERENT AMBIENT TEMPERATURES

Ambient temperature °C	35	40	45	50	55	60	65	70	75	80	85
Conversion factor	1,10	1,05	1,00	0,95	0,89	0,84	0,77	0,71	0,63	0,55	0,45

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