

SOLEN CABLE SMX 125

Marine Panel Wire



solen
C A B L E



Your Reliable Partner For Marine Cable Solutions



Solen Cable, world's leading manufacturer of Cables with comprehensive know-how, is a young and dynamic company founded in 2021 by very professional team with years of experience aiming to produce exclusively single core cables. **Solen Cable is the first cable factory who has electron-beam facility in Türkiye.**

Our factory is based in Çerkezköy, Tekirdağ located 100 km away from İstanbul and head office is in the heart of İstanbul. Solen Cable is aware of the importance of renewable and sustainable energy for the future of our world. We are proud of using nature-friendly, renewable energy in all processes of the production.

Solen Cable continues its operations on 10.000 m² land space with 5.000 m² closed area by having 3.000 tons copper drawing processing and 60.000 km of cable production capacity per year. All our production is carried out in our high-tech factory 100% integrated with fast and modern state-of-the-art machinery for aiming absolute customer satisfaction.

Solen high quality has been approved by both customers and international certification bodies. We are committed to philosophy being true partner with reputable references and always to be reliable partner.



SMX WIRE



APPLICATION

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

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

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



TYPE APPROVAL CERTIFICATE

SMX 125 marine cables have been granted Bureau Veritas
Type Approval for 0.6/1 kV low-voltage marine applications.

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Certificate number: 78827/AD BV

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

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Certificate number: 78827/AD BV
File number: MPA2403002
Product code: 25011

This certificate is not valid when presented without the full attached schedule composed of 3 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to
SOLEN KABLO SAN. VE TIC. A.S.
TEKIRDAG - Türkiye

for the type of product
CABLES (LOW VOLTAGE)
0.6/1kV
Type: SMX 125

Requirements:
Bureau Veritas Rules for the Classification of Steel Ships.
IEC 60092-350 (2020), IEC 60092-353 (2024), IEC 60092-360 (2021)
IEC 60328 (2023)
IEC 60332-1-2 (2015), IEC 60332-3-22 (2018)
IEC 60584-2 (2011)
IEC 60754-1/2 (2019)
IEC 61034-1/2 (2019)

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. This certificate will expire on: 17 Nov 2030

For Bureau Veritas Marine & Offshore
At BV ISTANBUL, on 17 Nov 2025,
Gurcan Yilmaz

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) have to be re-approved prior to them being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

2025.
02-004 and KF:18-02-005, dated 29 May 2025.
03-003 and KF:18-03-004, dated 29 May 2025.
02-001, KF:18-03-001 and KF:18-03-002, dated 30 May 2025.
ed 05 Sep 2025.

5.

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aps.

SOLEN KABLO SAN. VE TIC. A.S. in compliance with the type and the
Bureau Veritas Rule Note NR320.

A.S. has declared to Bureau Veritas the following production site:
SOLEN KABLO SAN. VE TIC. A.S.
Organize Sanayi Belgesi
Cadde No:12/1
TERKEZKOY
TEKIRDAG
Türkiye

in a durable legible and visible manner, with the following information

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We Carry
Nature's Energy
to the Future



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