



APPLICATION

Power cable for battery energy storage systems and grids installations.

It can be buried or installed in a tube as well as outdoors without requiring additional protection and can withstand in damp conditions including total submersion in water (AD8).

Storaflex cables have good Oil and chemical resistance characteristics also excellent resistance to salt mist + chemical vapors.

CONSTRUCTION

Conductor	Electrolytic annealed flexible bare copper-Class 5 according to IEC 60228 (Class 2 and/or tinned copper available on request.)
Insulation	Hard Grade Ethylene Propylene Rubber, HEPR according to IEC 60502-1
Outer Sheath	Special Halogen Free Flame Retardant HFFR compound according to IEC 60502-1
Sheath Colour	Black (Other colours available upon request)

TECHNICAL CHARACTERISTICS

Rated Voltage (U0/U)	1800 / 3000 V AC 2700 / 4500 V DC
Max Voltage Umax	3600 V AC 5400 V DC
Test Voltage	6,5 kV AC
Operating Ambient Temperature	-40°C / +90°C
Lowest Installation Temperature	-15°C
Max. Short Circuit Temperature	+250°C
Bending Radius (fixed installation)	6 x Outer Diameter at fixed installed 10 x Outer Diameter during installation

DESIGN STANDARDS

Construction	IEC 60502-1
Flame Retardancy	IEC 60332-1-2
Halogen Content	IEC 60754 / 1-2
Smoke Emission	IEC 61034 / 1-2
Ozon Resistance	IEC60811 / 403
UV Resistance	EN 50618

CABLE MARKING

SOLEN CABLE STORAFLEX 1xN mm² 1800/3000 V IEC 60502-1 IEC 0332-1-2 SCXXXX (yyyy) XX MT

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



DIMENSIONAL PARAMETERS

Customer:

Date:

Solen Kablo San. Tic. A.Ş.
Arap Cami Mah. Arapkayyum Sok.
Karavelioğlu Han No.23 / 5
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CABLE TYPE	NUMBER OF CORES	CROSS SECTIONS mm ²	OVERALL DIAMETER mm	BENDING RADIUS (min.) mm	APP. WEIGHT kg/km	MAX. CONDUCTOR RESISTANCE (*) 20°C ohm/km
STORAFLEX 3KV	1	16	11,7 -0,3 /+0,5	70,2	227	1,21
STORAFLEX 3KV	1	25	12,9 -0,3 /+0,5	77,4	309	0,780
STORAFLEX 3KV	1	35	14,1 -0,3 /+0,5	84,6	415	0,554
STORAFLEX 3KV	1	50	15,6 -0,3 /+0,5	93,6	556	0,386
STORAFLEX 3KV	1	70	17,5 -0,3 /+0,5	105,0	749	0,272
STORAFLEX 3KV	1	95	19,1 -0,5 /+0,8	114,6	958	0,206
STORAFLEX 3KV	1	120	21,5 -0,5 /+0,8	129,0	1.206	0,161
STORAFLEX 3KV	1	150	23,0 -0,5 /+0,8	138,0	1.440	0,129
STORAFLEX 3KV	1	185	25,0 -0,5 /+0,8	150,0	1.780	0,106
STORAFLEX 3KV	1	240	27,9 -0,5 /+0,8	167,4	2.297	0,0801

(*) Bare Class 5 conductors based on IEC 60228

CURRENT RATINGS

Apply to IEC 60364-5-52 according to installation method type.

Based on at 30 °C Ambient temperature and cable operating temperature 90 °C

For installation in air reference method F refer to Table B.52.12,

For direct burial reference method D1 or D2 refer to Table B.52.3, Table B.52.5

For correction factor for ambient temperature Table B.52.14

For group Group reduction factors for method F refer to Table B.52.21 Table B.52.17
for Direct Burial Method D2 refer to table B.52.18



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