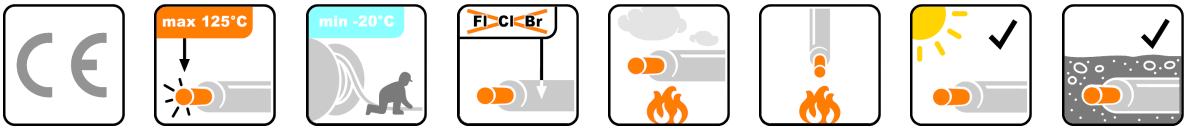
Solar Cable FACAB SOLAR 125

conductor construction:	fine stranded, class 5
conductor material:	copper, bare or tinned
insulation:	cross-linked polyolefin-copolymer
sheathing material:	cross-linked polyolefin-copolymer
insulation resistance:	2000 MOhmxkm
Halogen free:	DIN EN 50267/IEC 60754
flame retardant:	VDE 0482-332-1-2/IEC 60332-1
ozone resistant:	DIN EN 60811-2-1(A)
maximum temperature at conductor:	125 °C
max. operating temperature, fixed:	-40 - +125 °C
bending radius, fixed installation:	5 x DA
bending radius, moved application:	15 x DA
	FACAB SOLAR 125
nominal voltage Uo:	600 V
nominal voltage U:	1000 V
nominal voltage (DC):	0,9/1,5 kV
test voltage:	5 kV

Application: Designed specially for application in solar generators. Thanks to cross-linked insulating and sheathing materials very good resistance against mechanical and environmental factors is achieved, as well as a very high electrical performance. At the same time the current rating is higher than in comparable rubber- or EPR-insulated cables. The cable is short-circuit-proof and resistant against UV-irradiation and ozon. Insulation and sheath may be separated easily. The GLX-version has an additional rodent protection (glass yarns).
The permanent load at the currents shown in Tab. 1 leads to a conductor temperature of 120 °C at an ambient temperature of 30 °C. Reduction factors for clustering, increased ambient temperature etc. should be taken from the applicable VDE standards.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

table 1: current rating, A

operation mode	free in air	on surfaces (without contact)	on surfaces (with contact)	closed installation
1 x 2,5	53	48	41	32
1 x 4	71	64	55	42
1 x 6	92	84	72	53
1 x10	129	118	101	74
1 x16	171	158	135	96
1 x25	228	212	181	128
1 x35	281	262	223	157
1 x50	355	330	281	199
1 x70	447	420	357	248
1 x95	530	499	425	286
1x120	622	580	493	341
1x150	750	690	580	405
1x185	880	810	680	495
1x240	1090	1010	870	620

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table: technical data FACAB SOLAR 125

Art.-Nr.	part-name	DI [mm]	RI [Ω/km]	DA [mm]	Fz [N]	CU	G [kg/km]
040694	FACAB SOLAR 125 0,6/1 kV 01X4 SW/SW verzinnte Ader	3	5,09	6,8	60	38,4	71
040427	FACAB SOLAR 125 0,6/1 kV 01X4 GLX SW/SW mit Nagetierschutz	3	4,95	4,6	60	38,4	85
040695	FACAB SOLAR 125 0,6/1 kV 01X6 SW/SW verzinnte Ader	3,9	3,39	7,8	90	58	102
040428	FACAB SOLAR 125 0,6/1 kV 01X6 GLX SW/SW mit Nagetierschutz	3,9	3,3	5,6	90	58	122
040723	FACAB SOLAR 125 0,6/1 kV 01X10 SW/SW verzinnte Ader	5,1	1,95	8,5	150	96	159
040724	FACAB SOLAR 125 0,6/1 kV 01X16 SW/SW verzinnte Ader	6,3	1,24	9,5	240	154	232
040745	FACAB SOLAR 125 0,6/1 kV 01X25 SW/SW verzinnte Ader	7,8	0,795	11,5	375	240	295
040746	FACAB SOLAR 125 0,6/1 kV 01X35 SW/SW verzinnte Ader	9,2	0,565	13,3	525	336	395
040747	FACAB SOLAR 125 0,6/1 kV 01X50 SW/SW verzinnte Ader	11	0,393	15,1	750	480	630
040803	FACAB SOLAR 125 0,6/1 kV 01X70 SW/SW verzinnte Ader	13,1	0,277	18,1	1050	672	987
040804	FACAB SOLAR 125 0,6/1 kV 01X95 SW/SW verzinnte Ader	15,1	0,21	19,9	1425	912	1276
040805	FACAB SOLAR 125 0,6/1 kV 01X120 SW/SW verzinnte Ader	17	0,164	22,2	1800	1152	1702
040811	FACAB SOLAR 125 0,6/1 kV 01X150 SW/SW verzinnte Ader	19	0,132	22,6	2250	1440	1650
040812	FACAB SOLAR 125 0,6/1 kV 01X185 SW/SW verzinnte Ader	21	0,108	25,1	2775	1776	2000
040813	FACAB SOLAR 125 0,6/1 kV 01X240 SW/SW verzinnte Ader	24	0,0817	27	3600	2304	2600

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