Solar cable
FABER® SolarPlus H1Z2Z2-K

Application: Solar line for freely movable use or fixed installation in photovoltaic systems as per EN 60364-7-712. The cable may be used indoors, outdoors, in explosive areas, in industrial or agricultural operations and is approved for direct laying in the ground. The cable is regarded as short-circuit-proof and earth leakage-proof. It meets the VDE application regulation VDE-AR-E 2283-4. The cable has been subjected to the following additional tests: - abrasion as per EN 50289-3-7 - water AD 8 as per HD 516. Please note the applicable installation instructions on our website.

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	DIN EN 50618 (VDE 0283-618)
Conductor material:	tinned copper
Conductor construction:	Class 5 = fine stranded - DIN EN IEC 60228 (VDE 0295)
Insulation:	cross-linked polyolefin-copolymer
Sheathing material:	cross-linked polyolefin-copolymer
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Ozone-resistant:	yes
Water-resistant:	AD8
For outdoor use:	yes
Max. temperature at conductor, °C:	120 °C
Permitted outer cable temperature, fixed, °C:	-40 - +90 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Min. bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	6 x Ø

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.

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Nominal voltage Uo: 1 kV

Nominal voltage U: 1 kV

Nominal voltage DC (core-earth/core-core): 1,5/1,5 kV

Max. operating voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 6.5 kV

part no.	part name	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
041050	1X2.5 black	2.4	8.21	41	4.9	38	24	41
041386	1X2.5 red	2.4	8.21	41	4.9	38	24	41
041027	1X4 black	3	5.09	55	5.4	60	38.4	56
041028	1X4 blue	3	5.09	55	5.4	60	38.4	56
041029	1X4 red	3	5.09	55	5.4	60	38.4	56
041030	1X6 black	3.9	3.39	70	5.9	90	58	74
041031	1X6 blue	3.9	3.39	70	5.9	90	58	74
041032	1X6 red	3.9	3.39	70	5.9	90	58	74
041033	1X10 black	5.1	1.95	98	6.9	150	96	117
041034	1X10 blue	5.1	1.95	98	6.9	150	96	117
041035	1X10 red	5.1	1.95	98	6.9	150	96	117
041036	1X16 black	6.3	1.24	132	8	240	154	173
041037	1X16 blue	6.3	1.24	132	8	240	154	173
041038	1X16 red	6.3	1.24	132	8	240	154	173
041039	1X25 black	7.8	0.795	176	10.3	375	240	272
041040	1X25 blue	7.8	0.795	176	10.3	375	240	273
041041	1X25 red	7.8	0.795	176	10.3	375	240	273
041042	1X35 black	9.2	0.565	218	11.8	525	336	368
041043	1X35 blue	9.2	0.565	218	11.8	525	336	368
041044	1X35 red	9.2	0.565	218	11.8	525	336	368
041045	1X50 black	9	0.393	276	14.5	750	480	542
041046	1X70 black	10.8	0.277	347	16.5	1050	672	741
041047	1X95 black	12.6	0.21	416	18.7	1425	912	958
041460	1X95 red	12.6	0.21	416	18.7	1425	912	968
041051	1X120 black	14.3	0.164	488	20.4	1800	1152	1211
041052	1X150 black	15.9	0.132	566	22.6	2250	1440	1500
041053	1X185 black	17.5	0.108	644	25.1	2775	1776	1814
041054	1X240 black	20.5	0.0817	775	28.5	3600	2304	2362

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

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