

SPLN 

◊ LMK ◊



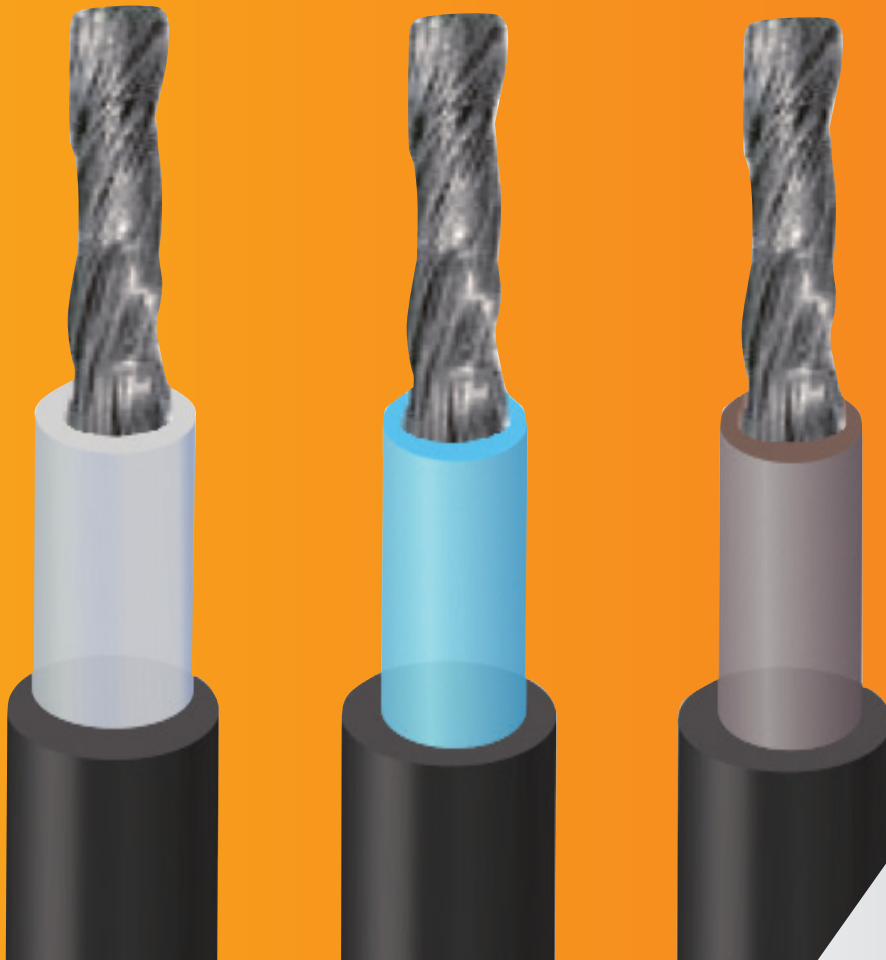
DIN



 **EXTRANA[®]**
CABLE

Quality Cables, Quality Living

PHOTOVOLTAIC SOLAR (PV) CABLES



www.extrnacable.com



Photovoltaic cables are an essential component of any solar power system. These cables are specially designed to carry the direct current (DC) electricity produced by solar panels to the inverter, where it is converted into alternating current (AC) for use in our homes and businesses. What sets our photovoltaic cables apart from the rest are their superior quality, durability, and efficiency.

One of the key benefits of using our photovoltaic cables is their high conductivity, which allows for the efficient transmission of electricity from the solar panels to the inverter. This results in minimal energy loss, ensuring that the maximum amount of power generated by the solar panels is utilized. Additionally, our photovoltaic cables are designed to withstand harsh environmental conditions, making them suitable for a wide range of installations, from rooftop solar arrays to ground-mounted systems.

In addition to their performance, our photovoltaic cables are also designed with safety in mind. They are UV and ozone resistant, flame retardant, and able to withstand high temperatures, ensuring that they can operate safely and reliably for many years. Furthermore, our cables are also designed with flexibility in mind, allowing for easy installation and maintenance.

In conclusion, our photovoltaic cables are an essential component for any solar power system, offering superior quality, durability, and efficiency. With their high conductivity, environmental resistance, and safety features, they are the ideal choice for any solar installation.

H1Z2Z2 1500 V d.c

Tinned Copper Conductor,
XL-LSOH Insulated , XL-LSOH Sheathed

IEC 62930; BS EN 50618



Solar Cables for PV-systems “H1Z2Z2-K” are intended for permanent use in particular for installation at the direct current (d.c.) side. These cables are suitable for outdoor and indoor, for free movable, free hanging and fixed installation.

Installation also in conduits and trunkings on, in or under plaster as well as in appliances. Suitable for the application in/at equipment with protective insulation (protection class II). They are inherently short-circuit and earth fault proof acc. to 60364-5-52.

1 CORE DIMENSIONAL AND ELECTRICAL DATA									
Cross-sectional area	Nominal Insulation Thickness	Nominal Insulation Thickness	Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. AC Conductor Resistance at 20°C	Max. DC Conductor Resistance at 90°C	Min. Insulation Resistance	
								at 20°C	at 90°C
mm ²	mm	mm	mm	kg/km	mm	Ω/km	Ω/km	MΩ.km	MΩ.km
1,5	0,7	0,8	5,4	37	32	13,7	17,55	1050	1,050
2,5	0,7	0,8	5,9	49	35	8,21	10,50	862	0,862
4	0,7	0,8	6,6	65	40	5,09	6,51	709	0,709
6	0,7	0,8	7,2	91	43	3,39	4,34	610	0,610
10	0,7	0,8	8,3	129	50	1,95	2,49	489	0,489
16	0,7	0,9	9,8	189	59	1,24	1,59	393	0,393
25	0,9	1,0	12,2	289	73	0,795	1,02	395	0,395
35	0,9	1,1	14,0	392	84	0,565	0,724	335	0,335
50	1,0	1,2	16,3	557	98	0,393	0,503	314	0,314
70	1,1	1,2	18,7	749	112	0,277	0,330	291	0,291
95	1,1	1,3	20,8	988	125	0,210	0,269	258	0,258
120	1,2	1,3	23,0	1234	138	0,164	0,210	249	0,249
150	1,4	1,4	25,7	1488	154	0,132	0,169	260	0,260
185	1,6	1,6	28,7	1911	172	0,108	0,138	268	0,268
240	1,7	1,7	32,3	2425	194	0,0817	0,105	249	0,249
300	1,8	1,8	35,6	2939	214	0,0654	0,0837	237	0,237
400	2,0	2,0	40,6	4034	244	0,0495	0,0633	230	0,230

1 CORE DIMENSIONAL AND ELECTRICAL DATA								
Cross-sectional area	Capacitance (approx.)	Reactance (approx.)	Impedance at 90° (approx.)	Inductance (approx.)	Max. Current Carrying Capacity at 30°C			Max. Short Circuit Current at 1 sec.
					Single Cable Free In Air	Single Cable On A Surface	Two Loaded Cables Touching On A Surface	
mm ²	mm	mm	kg/km	mm	A	A	A	
1,5	0,433	0,1239	14,501	0,505	31	30	24	0,21
2,5	0,481	0,1201	8,901	0,470	42	40	33	0,36
4	0,576	0,1160	5,521	0,450	57	54	45	0,57
6	0,673	0,1106	3,692	0,426	72	69	58	0,86
10	0,831	0,1045	2,193	0,396	98	96	80	1,43
16	0,965	0,0999	1,384	0,374	132	130	107	2,29
25	1,005	0,0989	0,876	0,358	183	174	138	3,58
35	1,156	0,0962	0,637	0,345	227	215	171	5,01
50	1,160	0,0966	0,474	0,336	287	273	209	7,15
70	1,306	0,0910	0,334	0,326	361	344	269	10,01
95	1,341	0,0905	0,249	0,321	433	411	328	13,59
120	1,539	0,0886	0,2042	0,316	508	483	382	17,16
150	1,494	0,0889	0,1744	0,313	590	560	441	21,45
185	1,515	0,0881	0,1497	0,310	671	638	506	26,46
240	1,564	0,0876	0,1278	0,307	808	767	599	34,32
300	1,570	0,0870	0,1149	0,305	913	866	693	42,9
400	1,693	0,0865	0,1055	0,302	1098	1041	825	57,2



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