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SRINI LINK[®]
CABLES & WIRES

SOLAR CABLE (Photovoltaic Wire)



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SOLAR CABLE (Photovoltaic Wire) :-

Application: Solar cable is the interconnection cable used in photovoltaic power generation device and which interconnects solar panels and other electrical components of a photovoltaic system.

Conductor: The photovoltaic power system means outdoor green electric generation, so solar cables are designed for

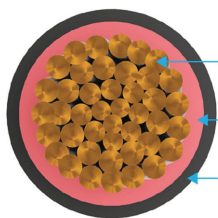
- High temperatures resistance
- High UV radiation resistance
- Dry or Wet weather resistance
- Salty moisture resistant.

Single-core cables with a maximum permissible DC voltage of 600 V to 2000 V and a temperature range from -40°C to +105°C are generally used.

A three-core cable is used for connection to the grid if a single-phase inverter is used, and a five-core cable is used for three-phase feed-in

Conductor: EC Grade Annealed Tinned Copper (ATC) with 99.90 % to 99.97 % purity, which offer low conductor resistance, lower heating which help maximum current follow with less resistance to storage device or high tension connected line.

On demand EC grade bare copper can be used with 99.90% to 99.97% purity.



Flexible tinned copper stranded class -5 conductors as per IEC-60228

Insulation – Cross linked Polyolefin, Natural Color*

Outer sheath – Halogen free Polyolefin Black Color



PVC HR-FR SOLAR CABLE :

(Type C (HR-FR) Insulation & ST 2 (FR) Sheath) Reach Compliance

Sr.No	Description	Specification	Values	Remark
1	Conductor	IS 8130 Class 5 or IEC 60332-1 Class 5	Flexible Annealed tinned Copper	99.90% to 99.97% Purity
2	PVC Insulation (Reach)	IS 5831 Type C (HRFR)	Normal operating continuous temp 85 deg and Short Circuit temp 160 deg	UV resistance and anti rodent
3	PVC Sheath (Reach)	IS 5831	Type ST 2 (FR)	Black color with UV resistance and anti rodent
4	FR properties	IS 5831	Oxygen Index 29% and temp Index 250 deg	Thermal aging more than 200 min @ 200 deg
5	Voltage	IS 1554	1500 V DC	Max permitted 1800 V DC
6	Bending radius	--	Ø X 4	For fixed Installation
7	Bending radius	--	Ø X 5	For Occasionally moved
8	Std Packing	--	100 meters	As per requirement multiple
9	Expected life	--	More than 25 years	@ 85 deg

TECHNICAL SPECIFICATION: -

(Generally Conforming To IS : 1554 (part 1) - 1988)

Area Of Conductor	Number of Strands / Diameter Of Wire	Nominal Thickness Of Insulation	Nominal Thickness Of Insulation	Over All Diameter (Max)	Resistance Per Km @ 20' C (Max)		Current Carrying Capacity	
					ohms			
Sq.mm	mm	mm	Mm	Mm	Bare Copper	Tinned Copper	Amps	
1.5	30/0.25	0.80	1.24	5.70	13.3	13.7	16	
2.5	50/0.25	0.90	1.24	6.37	7.98	8.21	22	
4.0	56/0.3	1.00	1.24	7.13	4.95	5.09	29	
6.0	84/0.3	1.00	1.24	7.72	3.30	3.39	37	
10	140/0.3	1.00	1.24	8.67	1.91	1.95	51	
16	126/0.4	1.20	1.24	10.18	1.21	1.24	68	
25	196/0.4	1.20	1.24	11.49	0.780	0.795	86	
35	276/0.4	1.40	1.24	13.12	0.554	0.565	110	
50	396/0.4	1.40	1.24	14.67	0.386	0.393	145	
70	354/0.5	1.60	1.24	16.78	0.272	0.277	215	
95	480/0.5	1.60	1.40	18.72	0.206	0.210	260	
120	607/0.5	1.80	1.40	20.95	0.161	0.164	305	
150	760/0.5	2.00	1.40	22.96	0.129	0.132	355	
185	941/0.5	2.20	1.40	25.20	0.106	0.108	415	
240	1221/0.5	2.40	1.40	28.04	0.0801	0.817	500	
300	1527/0.5	2.60	1.40	30.85	0.0641	0.0654	585	



XLPE SOLAR CABLE :

(XLPE Insulation & ST 2 (FR) PVC Sheath) Reach Compliance

Sr.No	Description	Specification	Values	Remark
1	Conductor	IS 8130 Class 5 or IEC 60332-1 Class 5	Flexible Annealed tinned Copper	99.90% to 99.97% Purity
2	XLPE Insulation	IS : 7098 (Part 1)	Normal operating continuous temp 90 deg and Short Circuit temp 250 deg	--
3	PVC Sheath (Reach)	IS : 5831	Type ST 2 (FR)	Black color with UV resistance and anti rodent
4	FR properties	IS 5831	Oxygen Index 29% and temp Index 250 deg	Thermal aging more than 200 min @ 200 deg
5	Voltage	IS : 7098 (Part 1)	1500 V DC	Max permitted 2000 V DC
6	Bending radius	--	Ø X 4	For fixed Installation
7	Bending radius	--	Ø X 5	For Occasionally moved
8	Packing	--	100 meters	On demand 200 to etc.
9	Expected life	--	More than 25 years	@ 90 deg

- On demand ZHFR (HFFR) Sheath can coated

TECHNICAL SPECIFICATION: -

(Generally Conforming To IS : 7098 (part 1) - 2003)

Area Of Conductor	Number of Strands / Diameter Of Wire	Nominal Thickness Of Insulation	Nominal Thickness Of Insulation	Over All Diameter (Max)	Resistance Per Km @ 20' C (Max)		Current Carrying Capacity	
					ohms			
Sq.mm	mm	Mm	mm	Mm	Bare Copper	Tinned Copper	Amps	
1.5	30/0.25	0.70	1.24	5.50	13.3	13.7	16	
2.5	50/0.25	0.70	1.24	5.97	7.98	8.21	22	
4.0	56/0.3	0.70	1.24	6.53	4.95	5.09	29	
6.0	84/0.3	0.70	1.24	7.12	3.30	3.39	37	
10	140/0.3	0.70	1.24	8.07	1.91	1.95	51	
16	126/0.4	0.70	1.24	9.18	1.21	1.24	68	
25	196/0.4	0.90	1.24	10.89	0.780	0.795	86	
35	276/0.4	0.90	1.24	12.12	0.554	0.565	110	
50	396/0.4	1.00	1.24	13.87	0.386	0.393	145	
70	354/0.5	1.10	1.24	15.78	0.272	0.277	215	
95	480/0.5	1.10	1.24	17.40	0.206	0.210	260	
120	607/0.5	1.20	1.40	19.75	0.161	0.164	305	
150	760/0.5	1.40	1.40	21.76	0.129	0.132	355	
185	941/0.5	1.60	1.40	24.00	0.106	0.108	415	
240	1221/0.5	1.70	1.40	26.64	0.0801	0.817	500	
300	1527/0.5	1.80	1.40	29.25	0.0641	0.0654	585	



ZHFR SOLAR CABLE :

(ZHFR Insulation & ZHFR Sheath) RoHS Compliance

Sr.No	Description	Specification	Values	Remark
1	Conductor	IS 8130 Class 5 or IEC 60332-1 Class 5	Flexible Annealed tinned Copper	99.90% to 99.97% Purity
2	ZHFR (HFFR) Insulation	UL 4703	Dry normal operating continuous temp 105 deg and wet 90 deg, Short Circuit temp 250 deg	UV resistance and anti rodent
3	ZHFR (HFFR) Sheath	UL 4703	--	Black color with UV resistance and anti rodent
4	FR properties	ASTM D 2863	Oxygen Index 31% and temp Index 270 deg	Thermal aging more than 200 min @ 200 deg
	Smoke density rating	ASTM D 2843	6 %	--
	Halogen gas acid generation	IEC 60754-1	Nil %	--
5	Voltage	--	600 V / 1000 V / 2000 V DC	Max permitted 2000 V DC
6	Bending radius	--	Ø X 4	For fixed Installation
7	Bending radius	--	Ø X 5	For Occasionally moved
8	Packing	--	100 meters	On demand 200 to etc.
9	Expected life	--	More than 25 years	@ 90 deg

TECHNICAL SPECIFICATION: -

(Generally Conforming To IEC 60228 CLASS 5 & UL 4703 Photovoltaic Wire)

Area Of Conductor	Number of Strands / Diameter Of Wire	Nominal Thickness Of Insulation	Nominal Thickness Of Insulation	Over All Diameter (Max)	Resistance Per Km @ 20° C (Max)		Current Carrying Capacity 60 deg (free in air)
					ohms		
Sq.mm	mm	Mm	mm	Mm	Bare Copper	Tinned Copper	Amps
1.5	30/0.25	0.55	0.55	3.82	13.3	13.7	29
2.5	50/0.25	0.55	0.55	4.29	7.98	8.21	41
4.0	56/0.3	0.55	0.55	4.85	4.95	5.09	55
6.0	84/0.3	0.65	0.65	5.84	3.30	3.39	70
10	140/0.3	0.65	0.65	6.79	1.91	1.95	98
16	126/0.4	0.65	0.65	7.90	1.21	1.24	132
25	196/0.4	0.65	0.65	9.21	0.780	0.795	176
35	276/0.4	0.80	0.80	11.04	0.554	0.565	218
50	396/0.4	0.80	0.80	12.59	0.386	0.393	276
70	354/0.5	0.80	0.80	14.30	0.272	0.277	347
95	480/0.5	0.80	0.80	15.92	0.206	0.210	416
120	607/0.5	0.90	0.90	18.15	0.161	0.164	488
150	760/0.5	0.90	0.90	19.76	0.129	0.132	566
185	941/0.5	0.90	0.90	21.60	0.106	0.108	644
240	1221/0.5	0.90	0.90	24.04	0.0801	0.817	775
300	1527/0.5	0.90	0.90	26.45	0.0641	0.0654	895



XLPO SOLAR CABLE :

(XLPO Insulation & ZHFR Sheath) RoHS Compliance

Sr.No	Description	Specification	Values	Remark
1	Conductor	IS 8130 Class 5 or IEC 60332-1 Class 5	Flexible Annealed tinned Copper	99.90% to 99.97% Purity
2	XLPO Insulation	UL 4703	Dry normal operating continuous temp 105 deg and wet 90 deg, Short Circuit temp 250 deg	UV resistance
3	ZHFR Sheath	UL 4703	--	Black color with UV resistance and anti rodent
4	FR properties	IS 5831	Oxygen Index 29% and temp Index 250 deg	Thermal aging more than 200 min @ 200 deg
5	Voltage		600 V / 1000 V / 2000 V DC	Max permitted 2000 V DC
6	Bending radius	--	Ø X 4	For fixed Installation
7	Bending radius	--	Ø X 5	For Occasionally moved
8	Packing	--	100 meters	On demand 200 to etc.
9	Expected life	--	More than 25 years	@ 90 deg

TECHNICAL SPECIFICATION: -

(Generally Conforming To IEC 60228 CLASS 5 & UL 4703 Photovoltaic Wire)

Area Of Conductor	Number of Strands / Diameter Of Wire	Nominal Thickness Of Insulation	Nominal Thickness Of Insulation	Over All Diameter (Max)	Resistance Per Km @ 20' C (Max)		Current Carrying Capacity 60 deg (free in air)
					ohms		
Sq.mm	mm	mm	mm	mm	Bare Copper	Tinned Copper	Amps
1.5	30/0.25	0.55	0.55	3.82	13.3	13.7	29
2.5	50/0.25	0.55	0.55	4.29	7.98	8.21	41
4.0	56/0.3	0.55	0.55	4.85	4.95	5.09	55
6.0	84/0.3	0.65	0.65	5.84	3.30	3.39	70
10	140/0.3	0.65	0.65	6.79	1.91	1.95	98
16	126/0.4	0.65	0.65	7.90	1.21	1.24	132
25	196/0.4	0.65	0.65	9.21	0.780	0.795	176
35	276/0.4	0.80	0.80	11.04	0.554	0.565	218
50	396/0.4	0.80	0.80	12.59	0.386	0.393	276
70	354/0.5	0.80	0.80	14.30	0.272	0.277	347
95	480/0.5	0.80	0.80	15.92	0.206	0.210	416
120	607/0.5	0.90	0.90	18.15	0.161	0.164	488
150	760/0.5	0.90	0.90	19.76	0.129	0.132	566
185	941/0.5	0.90	0.90	21.60	0.106	0.108	644
240	1221/0.5	0.90	0.90	24.04	0.0801	0.817	775
300	1527/0.5	0.90	0.90	26.45	0.0641	0.0654	895



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CABLES & WIRES



Regd. Office :

M/s. SRINI LINK - Plot No. 1308/1, 1308/2 & 1309/2, Phase III, G.I.D.C., Umbergaon - 396 171. Dist. Valsad, Gujarat, INDIA
Tel.: +91 260 2562712 / 2564197 • Fax: +91 260 2561789 • E-mail: srinilink@srinilink.com • www.srinilink.com

Surat Depot :

M/s. SRINI LINK - Plot No. 15-B, Ground Floor, Road No. 3, Opp. Dharti Namkin, Udhana, Surat • Tel.: (0261) 2279003
Harshad Parmar • 98251 99995 / 97370 44660 • parmarje@gmail.com • sl.suratdepot@srinilink.com

