

LESSO

SOLAR CABLE



Lesso New Energy Global Trading Private Limited

One Raffles Quay, North Tower, #19-03, Singapore 048583

LESSO Group (2128) is listed in the Stock Exchange of Hong Kong.

 www.lessosolar.com  info@lessosolar.com     LESSO Solar

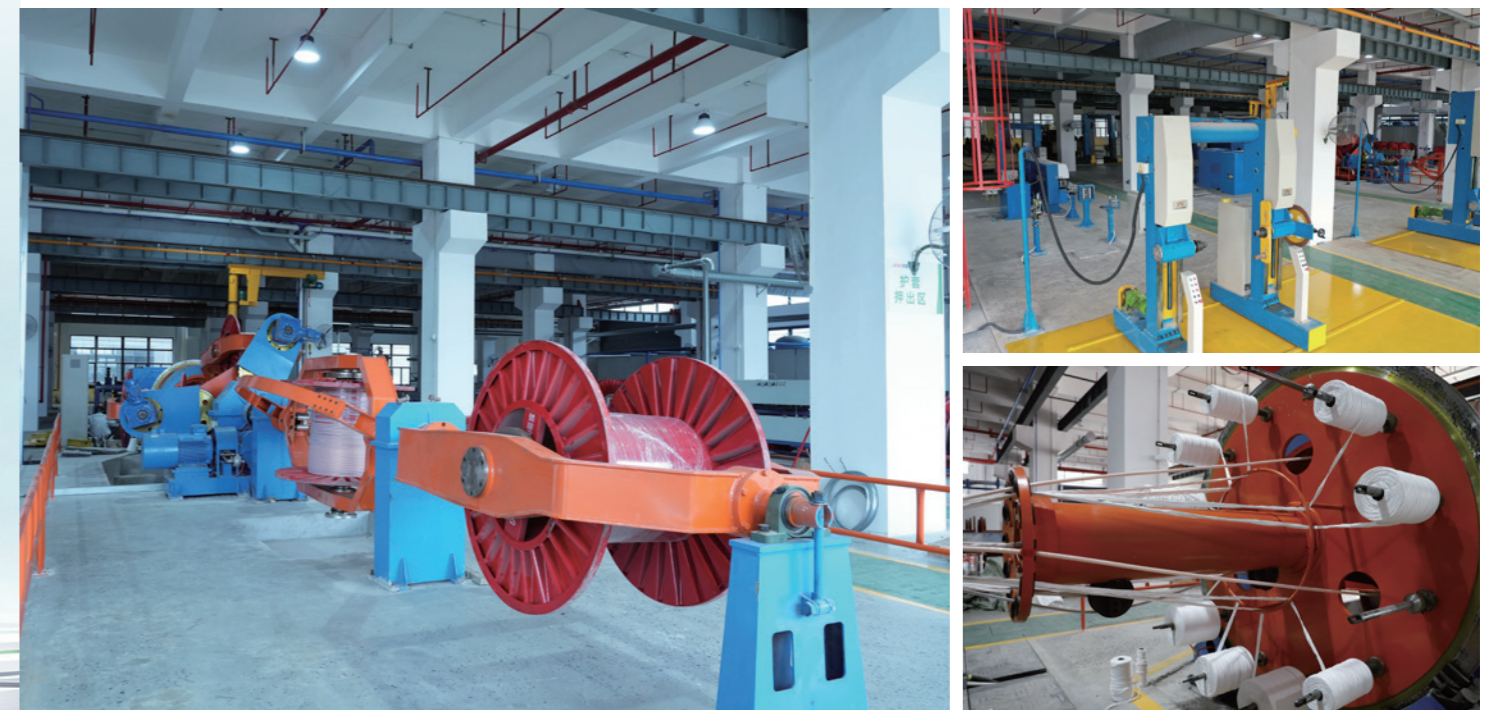
Company Introduction

LESSO Group is a Hong Kong-listed (2128.HK) manufacturer of building materials with an annual revenue of over USD4.5 billion from its global operations.

LESSO Cable, LESSO Cable is dedicated to providing safe and reliable power solutions. The company has strong scientific research, production and manufacturing capabilities. Cable products have the characteristics of wear resistance, high temperature resistance, cold resistance, oil resistance, acid and alkali resistance, ultraviolet resistance, flame retardant and environmental protection, and long service life. Stable power output is ensured through high-quality products, which meet the requirements of safe and efficient operation of multi-scene solar photovoltaic power generation systems.



PHOTOVOLTAIC POWER GENERATION SYSTEM WIRE PRODUCTION WORKSHOP

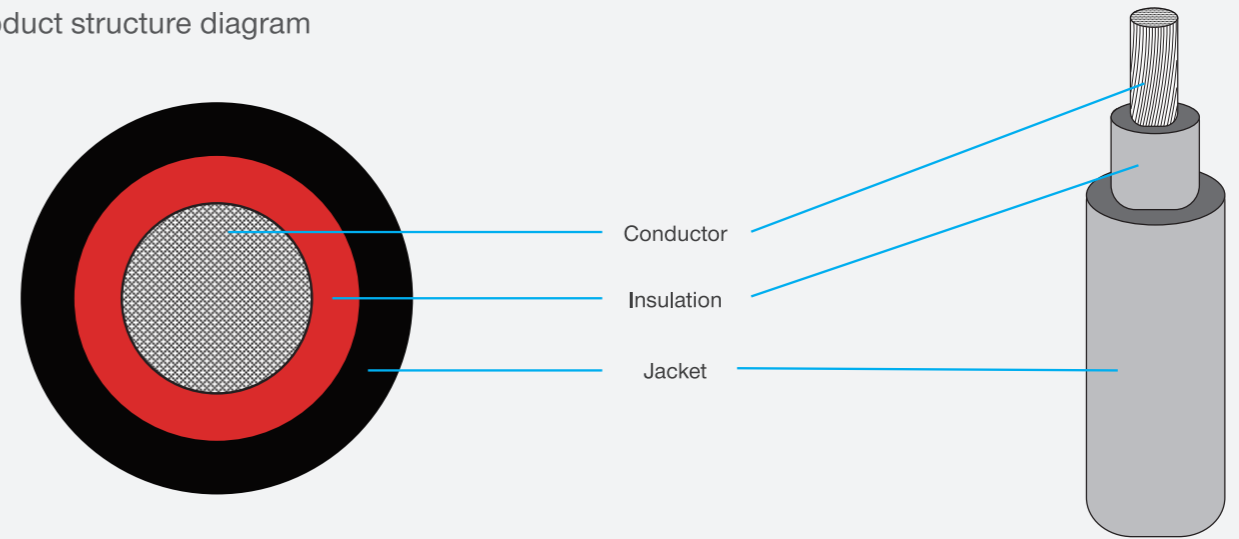


LOW VOLTAGE CABLE PRODUCTION WORKSHOP



PHOTOVOLTAIC POWER GENERATION SYSTEM WIRES

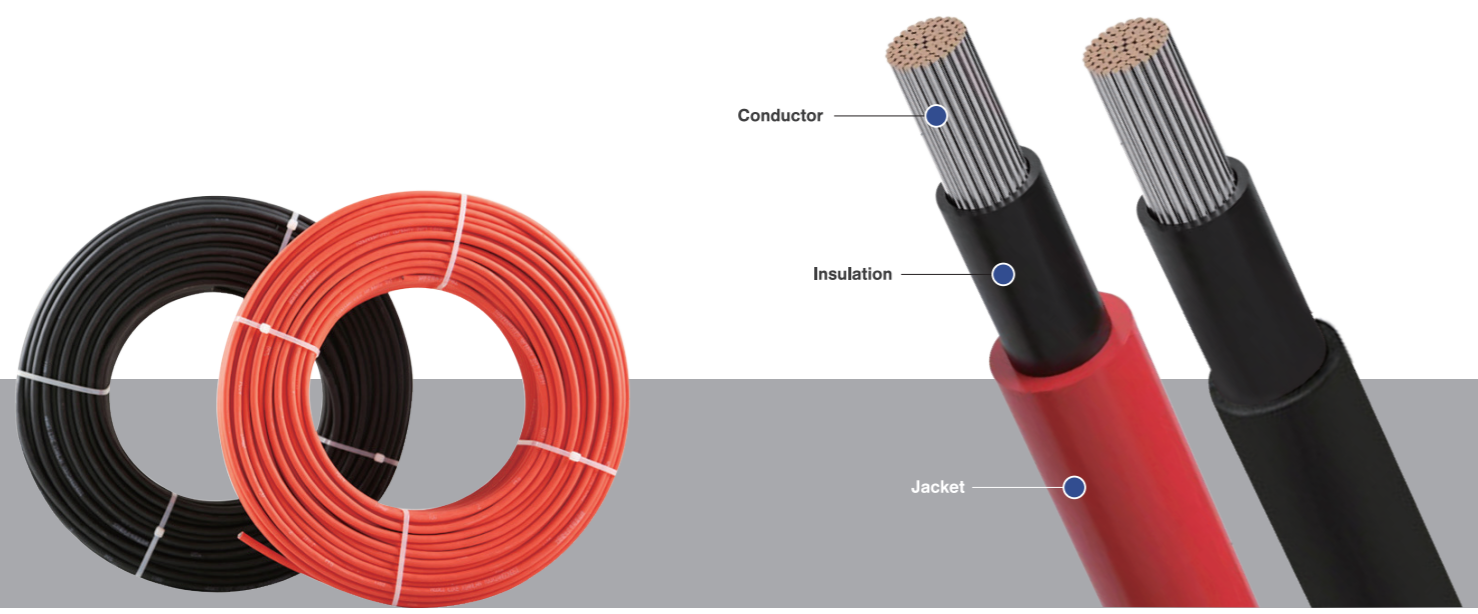
Product structure diagram



Model Type	Rated voltage V		Execution standards
	Direct current DC	Communication AC(U ₀ /U)	
PV1-F	1500	600/1000	2pfg 1169/08-2007
62930 IEC 131	1500	1000/1000	IEC 62930:2017
H1Z2Z2-K	1500	1000/1000	EN 50618:2014
PV-YJYJ	1500	600/1000	NBT 42073-2016

Nominal cross-section mm ²	Conductor class	Reference outer diameter	20°C maximum DC resistance Ω/km	20°C Minimal insulation resistance Ω·cm	90°C Minimal insulation resistance Ω·cm	Ampacity A		
						Single core in air	Single core on the surface	Two cores on the surface
2.5	5	5.1	8.21	1x10 ¹⁴	1x10 ¹¹	41	39	33
4	5	5.6	5.09	1x10 ¹⁴	1x10 ¹¹	55	52	44
6	5	6.2	3.39	1x10 ¹⁴	1x10 ¹¹	70	67	57

Photos of physical objects



USES AND CHARACTERISTICS

- Uses: Suitable for series cables between photovoltaic modules and components in photovoltaic power generation systems, parallel cables between strings and strings to DC distribution boxes (combiner boxes) and cables between DC distribution boxes and inverters; It is also suitable for AC cables for connecting inverters to the transmission grid.
- Product features: the conductor using tinned copper wire can effectively protect the copper wire oxidation and discoloration so that the conductivity decreases, insulation and sheath using electronic irradiation cross-linking, improve the physical and mechanical properties of the product and weather resistance environmental performance, so that the product can be used in -40 °C to 90 °C ambient temperature.

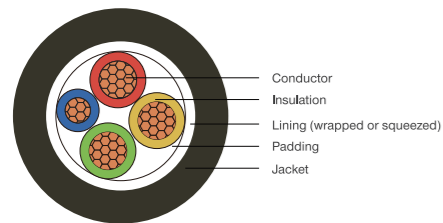
PRODUCT CERTIFICATION



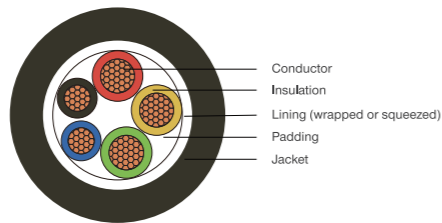
PV1-F Certificate H1Z2Z2-K, 62930 IEC 131 Certificate PV-YJYJ Certificate PV-YJYJ Certificate



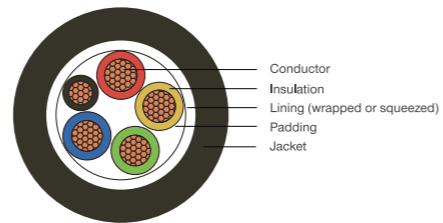
LOW VOLTAGE CABLE



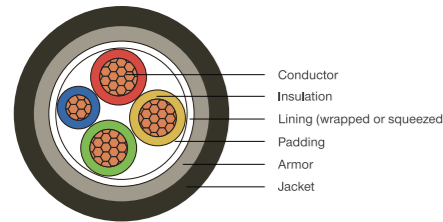
YJV(3+1 core)



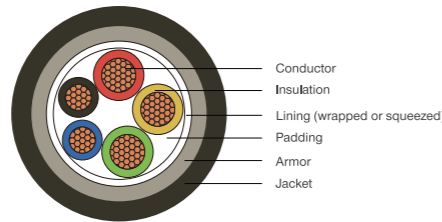
YJV(3+2 core)



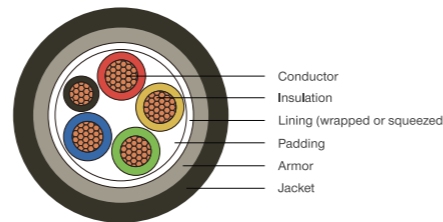
YJV(4+1 core)



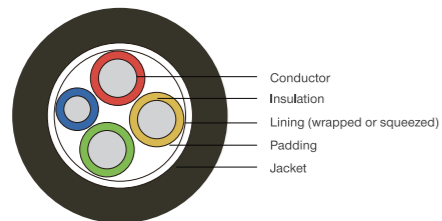
YJV22(3+1 core)



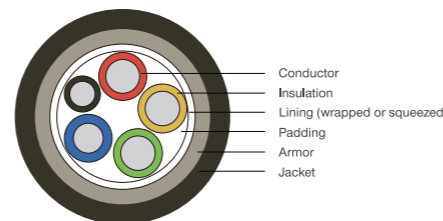
YJV22(3+2 core)



YJV22(4+1 core)



YJLHV(3+1 core)



YJLHV22(4+1 core)

Model Type	Voltage level KV	Product name	Execution standards
YJV	0.6/1	Copper core crosslinked polyethylene insulated polyvinyl chloride sheathed power cable	GB/T 12706.1-2020
YJV22	0.6/1	Copper core XLPE insulated steel tape armored polyvinyl chloride sheathed power cable	GB/T 12706.1-2020
ZC-YJV	0.6/1	Flame retardant Class C copper core crosslinked polyethylene insulated polyvinyl chloride sheathed power cable	GB/T 12706.1-2020
ZC-YJV22	0.6/1	Flame-retardant Class C copper core crosslinked polyethylene steel tape armored ene insulated polyvinyl chloride sheathed power cable	GB/T 12706.1-2020
WDZ-YJY	0.6/1	Copper core crosslinked polyethylene insulated halogen-free low smoke flame retardant polyolefin sheathed power cable	GB/T 12706.1-2020
WDZ-YJY23	0.6/1	Copper core crosslinked polyethylene insulated steel tape armored polyethylene sheathed steel tape armored power cable	GB/T 12706.1-2020
ZC-YJLHV	0.6/1	Flame retardant Class C aluminum alloy core crosslinked polyethylene insulated polyhalogen-free low smoke flame retardant polyolefin sheathed power cable	GB/T 31840.1-2015
ZC-YJLHV22	0.6/1	Flame retardant Class C aluminum alloy core crosslinked polyethylene insulated polysteel tape armored halogen-free low smoke flame retardant polyolefin sheathed power cable	GB/T 31840.1-2015
YJLHV	0.6/1	Aluminum alloy core crosslinked polyethylene insulated polyvinyl chloride sheathed power cable	GB/T 31840.1-2015
YJLHV22	0.6/1	Aluminum alloy core crosslinked polyethylene insulated steel tape armored polyvinyl chloride sheathed power cable	GB/T 31840.1-2015
WDZ-YJLHY	0.6/1	Aluminum alloy core crosslinked polyethylene insulated halogen-free low smoke flame retardant polyolefin sheathed power cable	GB/T 31840.1-2015
WDZ-YJLY23	0.6/1	Aluminum alloy core crosslinked polyethylene insulated steel tape armored halogen-free low smoke flame retardant polyolefin sheathed power cable	GB/T 31840.1-2015

YJV、YJLHV 0.6/1kV XLPE insulated power cable
(Including flame retardant, halogen-free low-smoke flame retardant and fire-resistant series cables)

Nominal cross-section mm ²	Cable reference Outside diameter mm	Allowable ampacity A			
		Laid in air		Buried laying	
		copper	Aluminum alloy	copper	Aluminum alloy
3×16+1×10	18.6	84	65	110	85
3×25+1×16	22.1	110	87	140	110
3×35+1×16	23.9	135	105	170	130
3×50+1×25	27.4	170	130	205	160
3×70+1×35	31.9	215	165	250	195
3×95+1×50	36.0	265	205	300	235
3×120+1×70	40.3	310	240	345	265
3×150+1×70	44.2	350	270	385	300
3×185+1×95	49.2	405	315	435	340
3×240+1×120	54.7	480	375	500	395
3×300+1×150	60.7	555	435	565	445
3×400+1×185	68.4	640	510	640	510
4×16+1×6	17.7	65	50	86	66
4×16+1×10	20.4	84	65	110	85
4×25+1×16	24.4	110	87	140	110
4×35+1×16	26.6	135	105	170	130
4×50+1×25	30.6	170	130	205	160
4×70+1×35	35.9	215	165	250	195
4×95+1×50	40.3	265	205	300	235
4×120+1×70	45.3	310	240	345	265
4×150+1×70	49.8	350	270	385	300
4×185+1×95	55.4	405	315	435	340
4×240+1×120	61.6	480	375	500	395
4×300+1×150	68.3	555	435	565	445

YJV22、YJLHV22 0.6/1kV XLPE insulated power cable
(Including flame retardant, halogen-free low-smoke flame retardant and fire-resistant series cables)

Nominal cross-section mm ²	Cable reference Outside diameter mm	Allowable ampacity A			
		Laid in air		Buried laying	
		copper	Aluminum alloy	copper	Aluminum alloy
3×16+1×10	20.6	83	64	110	85
3×25+1×16	24.1	110	86	140	110
3×35+1×16	25.9	135	105	170	130
3×50+1×25	29.4	165	125	200	155
3×70+1×35	34.1	210	165	245	190
3×95+1×50	39.8	260	200	300	230
3×120+1×70	44.3	305	235	335	260
3×150+1×70	48.2	345	270	380	295
3×185+1×95	53.6	395	310	430	335
3×240+1×120	59.1	465	365	500	390
3×300+1×150	64.9	535	420	565	440
3×400+1×185	72.8	620	495	650	505
4×16+2×10	21.9	83	64	110	85
4×25+2×16	25.5	110	86	140	110
4×35+2×16	27.2	135	105	170	130
4×50+2×25	31.3	165	125	200	155
4×70+2×35	35.9	210	165	245	190
4×95+2×50	42.2	260	200	300	230
4×120+2×70	47.3	305	235	335	260
4×150+2×70	50.8	345	270	380	295
4×185+2×95	56.5	395	310	430	335
4×240+2×120	62.4	465	365	500	390
4×300+2×150	68.8	535	420	565	440
4×16+1×10	22.4	83	64	110	85
4×25+1×16	26.4	110	86	140	110
4×35+1×16	28.6	135	105	170	130
4×50+1×25	32.8	165	125	200	155
4×70+1×35	39.1	210	165	245	190
4×95+1×50	44.3	260	200	300	230
4×120+1×70	49.1	305	235	335	260
4×150+1×70	54.2	345	270	380	295
4×185+1×95	59.8	395	310	430	335
4×240+1×120	66.0	465	365	500	390
4×300+1×150	72.7	535	420	565	440
4×400+1×185	82.9	620	495	650	505

USES AND CHARACTERISTICS

- **Uses:** Suitable for fixed installation cables in distribution networks or industrial installations with AC rated voltage of 1kV and below; In photovoltaic power stations, it is mainly used between combiner boxes and low-voltage cabinets in electric rooms.
- **Product features:** XLPE cable has simple structure, easy to use, not limited by laying drop, and the maximum allowable temperature of the conductor for a long time is 90 °C. The conductor adopts high-purity oxygen-free copper, which has high conductivity and large ampacity; XLPE insulation has excellent electrical properties, mechanical properties and aging resistance. Unarmored cable is suitable for laying indoors, pipelines, tunnels, cable trenches; Armored cables are suitable for laying indoors, pipelines, tunnels, cable trenches and underground direct burial, and can withstand mechanical external forces.

*The production license certificate is expected to be available by the end of May