LESSO

CABLE SERIES

Durable and Reliable, Transfer Your Power to Anywhere

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A Holding Subsidiary of LESSO Group (Stock Code: 2128.HK)

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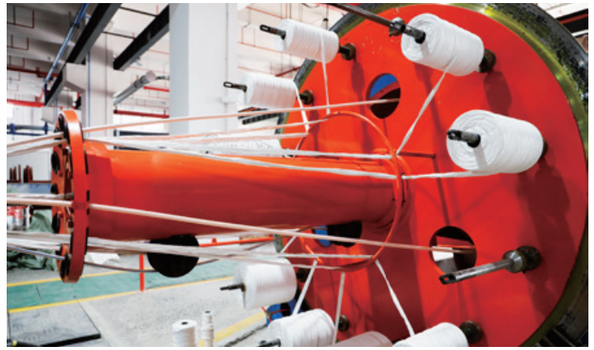
A LESSO Solar Publication, November 2024

Company Introduction

LESSO Group is a Hong Kong-listed (2128.HK) manufacturer of building materials with an annual revenue of over USD 4.38 billion from its global operations.

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 power generation systems.



Our Certificates

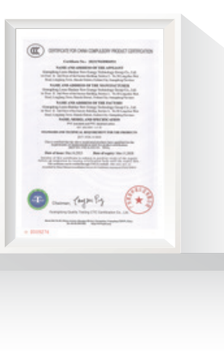
TÜV 2PfG 1169/08-2007,

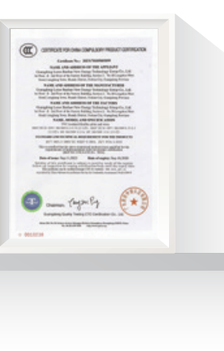
IEC 62930:2017, EN 50618:2014

ISO 9001:2015
Quality Management System

ISO 14001:2015
Environment Management System

ISO 45001:2018
Occupational Health and Safety Management System





SOLAR PV CABLES

Application

Suitable for PV power systems, Solar PV cable is designed for DC connections between PV modules, series cables between module strings, and parallel cables from strings to the DC distribution box, as well as from the DC distribution box to the inverter. They also serve as AC connections between inverters and the power grid.

- Suitable for PV scenarios
- Low eccentricity
- 100% sufficient length
- High temperature resistance
- Safety and environmental protection
- Flame retardant insulation

Mechanical Performance

Temperature range

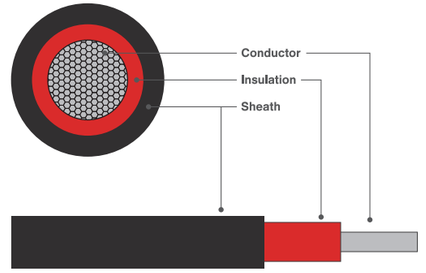
- Operating temperature: -40°C to +90°C;
- Conductor temperature: +90°C;
- Max. conductor temperature: +120°C for max.20,000 hours;
- Max. short-circuit temperature: +200°C for 5 sec;
- Expected service life: 25 years.

Bending radius

- When the outer diameter D of the cable is no larger than 12mm, the allowable bending radius should not be less than 3D;
- When the outer diameter D of a cable is larger than 12mm, the allowable bending radius should not be less than 4D.

Construction

The insulation on this product is made of halogen-free low-smoke cross-linked polyolefin, with a sheath made of halogen-free low-smoke cross-linked polyolefin, offering outstanding flame retardant and low-smoke properties. The conductor meets the requirements of GB/T 3956 for high quality tinned copper conductors, providing good, stable electrical conductivity.



Model	Rated voltage (V)		Execution standards
	DC	AC (U_o/U)	
PV1-F	1800	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	NB/T 42073-2016

Model	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)	20℃ Min. Insulation resistance (MΩ•km)	90℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)			Reference weight (kg/km)
							Single core in air	Single core on the surface	Two cores on the surface	
PV1-F	2.5	5	5.1	8.21	100	0.1	41	39	33	43
	4	5	5.6	5.09	100	0.1	55	52	44	61
	6	5	6.2	3.39	100	0.1	70	67	57	81
62930 IEC 131	2.5	5	5.1	8.21	862	0.862	42	40	33	43
	4	5	5.6	5.09	709	0.709	57	54	45	61
	6	5	6.2	3.39	610	0.61	72	69	58	81
H1Z2Z2-K	2.5	5	5.1	8.21	690	0.69	41	39	33	43
	4	5	5.6	5.09	580	0.58	55	52	44	61
	6	5	6.2	3.39	500	0.50	70	67	57	81
PV-YJYJ	2.5	5	5.1	8.21	690	0.69	41	39	33	43
	4	5	5.6	5.09	580	0.58	55	52	44	61
	6	5	6.2	3.39	500	0.50	70	67	57	81

*Note: When the ambient temperature for the ampacity described above is 60°C, the conversion factor will be 1.00; for an ambient temperature of 70°C, the conversion factor will be 0.92; for an ambient temperature of 80°C, the conversion factor will be 0.84; and for an ambient temperature of 90°C, the conversion factor will be 0.75.

EV CHARGER CABLES

Application

EV charger cable series products are standard products designed according to general requirements, using the national standard GB/T 33594-2017. AC rated voltage is 450/750V, which is suitable for most electric vehicle charging scenarios and large-scale electric vehicle charging stations.

- Suitable for most charging scenarios
- Low eccentricity
- 100% sufficient length
- High temperature resistance
- Safety and environmental protection
- Flame retardant insulation

Mechanical Performance

Temperature range

- Operating temperature of type S TPE thermoplastic elastomer conductor: -25°C to +70°C;
- Operating temperature of type S90 TPE thermoplastic elastomer conductor: -40°C to +90°C.

Bending radius

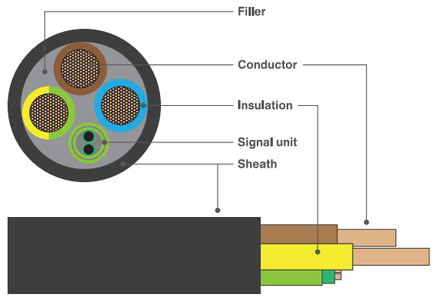
- When the outer diameter D is smaller than 25mm, the bending radius should not be less than 4D;
- When the outer diameter D is larger than or equal to 25mm, the bending radius should not be less than 6D.

Construction

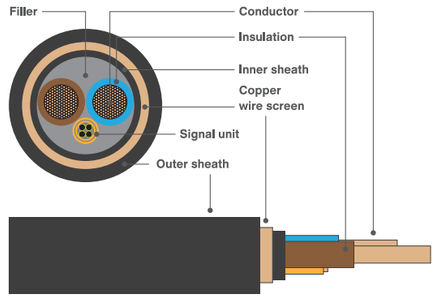
The conductor of this product is made of high quality copper conductor, providing stable conductivity and soft performance. The insulation is made of thermoplastic elastomer, while the sheath is made of thermoplastic elastomer, offering excellent wear resistance.

EV - SS

Thermoplastic elastomer insulated sheathed electric EV charger cable
(EV-SS, EV-S90S90, EV-SSPS, EV-S90S90PS90)



EV-SS 450/750V 3×16+2×0.75 (P)



EV-S90S90PS90 450/750V 2×95+4×1.5 (P)

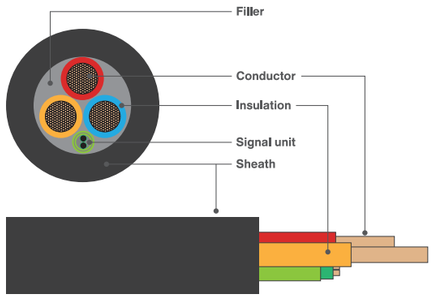
* The nominal cross-sectional area of the main insulation wire core is 1-70mm² and the nominal cross-sectional area of the signal and control wire core is 0.5-1.5mm²

Nominal voltage (V)	Conductor cross section (mm²)	Outer diameter (mm)		20℃ Max. Insulation resistance (MΩ • km)	Maximum temperature insulation resistance constant for normal operating conductor (MΩ • km)		Ampacity (A)
		Lower limit	Upper limit		S	S90	
450/750	3x1.0	10.9	14.0	19.5	0.037	3.67	16
	3x1.5	11.6	14.9	13.3	0.037	3.67	21
	3x2.5	12.6	16.1	7.98	0.037	3.67	25
	3x4	14.4	18.4	4.95	0.037	3.67	38
	3x6	15.8	20.2	3.30	0.037	3.67	49
	3x10	17.6	22.3	1.91	0.037	3.67	65
	3x16	20.1	25.4	1.21	0.037	3.67	84
	3x25	24.0	30.4	0.78	0.037	3.67	110
	3x35	27.7	35.0	0.554	0.037	3.67	135
	3x50	32.4	40.9	0.386	0.037	3.67	170
	3x70	37.1	46.8	0.272	0.037	3.67	215
	4x1.0	11.9	15.2	19.5	0.037	3.67	16
	4x1.5	12.6	16.1	13.3	0.037	3.67	22
	4x2.5	13.7	17.5	7.98	0.037	3.67	28
	4x4	16.0	20.4	4.95	0.037	3.67	37
	4x6	17.5	22.2	3.30	0.037	3.67	47
	4x10	19.7	25.0	1.91	0.037	3.67	65
	4x16	22.5	28.6	1.21	0.037	3.67	84
	4x25	27.2	34.3	0.78	0.037	3.67	110
	4x35	30.8	38.9	0.554	0.037	3.67	135
	4x50	36.2	45.6	0.386	0.037	3.67	170
	4x70	41.4	52.1	0.272	0.037	3.67	215
	5x1.0	12.9	16.4	19.5	0.037	3.67	16
	5x1.5	13.6	17.4	13.3	0.037	3.67	22
	5x2.5	14.9	19.0	7.98	0.037	3.67	28
	5x4	17.6	22.3	4.95	0.037	3.67	37
	5x6	19.3	24.5	3.30	0.037	3.67	47
	5x10	21.9	27.7	1.91	0.037	3.67	65
	5x16	25.0	31.7	1.21	0.037	3.67	84
	5x25	30.7	38.8	0.78	0.037	3.67	110
	5x35	34.2	43.1	0.554	0.037	3.67	135
	5x50	40.2	50.6	0.386	0.037	3.67	170
	5x70	45.9	57.7	0.272	0.037	3.67	215

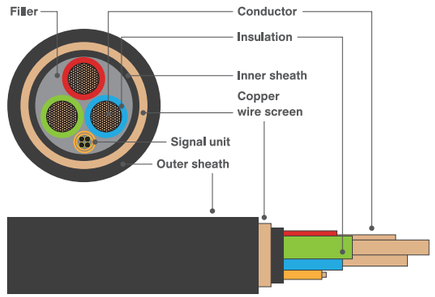
EV - RSS

Flexible thermoplastic elastomer insulated sheathed electric EV charger cable

(EV-RSS, EV-RS90S90, EV-RSSPS, EV-RS90S90PS90)



EV-RSS 450/750V 3×6+1×0.75 (P)



EV-RSSPS 450/750V 3×6+1×1.5 (P)

* The nominal cross-sectional area of the main insulation wire core is 1-70mm² and the nominal cross-sectional area of the signal and control wire core is 0.5-1.5mm²

Nominal voltage (V)	Conductor cross section (mm²)	Outer diameter (mm)		20℃ Max. Insulation resistance (MΩ•km)	Maximum temperature insulation resistance constant for normal operating conductor (MΩ•km)		Ampacity (A)
		Lower limit	Upper limit		S	S90	
450/750	3x1.0	12.3	15.7	19.5	0.037	3.67	16
	3x1.5	12.9	16.6	13.3	0.037	3.67	21
	3x2.5	13.9	17.8	7.98	0.037	3.67	25
	3x4	16.1	20.5	4.95	0.037	3.67	38
	3x6	17.4	22.1	3.30	0.037	3.67	49
	3x10	19.3	24.5	1.91	0.037	3.67	65
	3x16	21.6	27.4	1.21	0.037	3.67	84
	3x25	25.7	32.5	0.78	0.037	3.67	110
	3x35	29.7	37.6	0.554	0.037	3.67	135
	3x50	34.5	43.4	0.386	0.037	3.67	170
	3x70	39.2	49.3	0.272	0.037	3.67	215
	4x1.0	13.2	16.9	19.5	0.037	3.67	16
	4x1.5	13.9	17.8	13.3	0.037	3.67	22
	4x2.5	15.3	19.4	7.98	0.037	3.67	28
	4x4	17.6	22.3	4.95	0.037	3.67	37
	4x6	19.2	24.4	3.30	0.037	3.67	47
	4x10	21.4	27.1	1.91	0.037	3.67	65
	4x16	24.3	30.7	1.21	0.037	3.67	84
	4x25	29.2	36.8	0.78	0.037	3.67	110
	4x35	32.8	41.4	0.554	0.037	3.67	135
	4x50	38.2	48.1	0.386	0.037	3.67	170
	4x70	43.2	54.4	0.272	0.037	3.67	215
	5x1.0	14.2	1.81	19.5	0.037	3.67	16
	5x1.5	15.2	19.3	13.3	0.037	3.67	22
	5x2.5	16.4	20.9	7.98	0.037	3.67	28
	5x4	19.3	24.5	4.95	0.037	3.67	37
	5x6	20.8	26.4	3.30	0.037	3.67	47
	5x10	23.6	29.9	1.91	0.037	3.67	65
	5x16	26.8	33.8	1.21	0.037	3.67	84
	5x25	32.5	41.0	0.78	0.037	3.67	110
	5x35	36.2	45.6	0.554	0.037	3.67	135
	5x50	42.0	52.9	0.386	0.037	3.67	170
	5x70	48.1	60.5	0.272	0.037	3.67	215

HOUSEHOLD CABLES

Application

Suitable for power devices, household appliances, instruments and electronic equipment at a rated AC voltages of 450/750V and below, assuming maximum ambient temperature is not above 50°C, and featuring fixed mounting in rooms, cable trenches, direct buried pipelines or other fixed applications.

- Suitable for daily scenarios
- Low eccentricity
- 100% sufficient length
- High temperature resistance
- Safety and environmental protection
- Flame retardant insulation

Mechanical Performance

Temperature range

- Max. operating temperature for PVC insulated cable conductor: +70°C;
- Max. operating temperature for polyolefin insulated cable: +90°C;
- Max. operating temperature for cross-linked polyolefin cable: +90°C, +105°C, +125°C;
- Max. duration of cable short circuit: 5 sec;
- Max. temperature for polyvinyl chloride insulated cable conductor: +160°C;
- Max. temperature for polyolefin insulated cable and cross-linked polyolefin insulated cable conductor: +250°C.

Bending radius

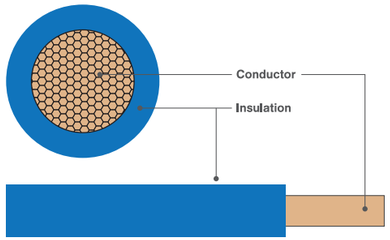
- When the outer diameter D is smaller than 25mm, the bending radius should not be less than 4D;
- When the outer diameter D is larger than or equal to 25mm, the bending radius should not be less than 6D.

Construction

The conductor is made of high quality copper conductor or aluminum conductor, which offers excellent electrical conductivity, oxidation resistance and thermal conductivity. The insulation and sheath of the product are made of high quality polyvinyl chloride polymer or polyolefin polymer, which have excellent insulation properties, aging resistance and non-delayed burning properties.

BV Copper core PVC insulated cable

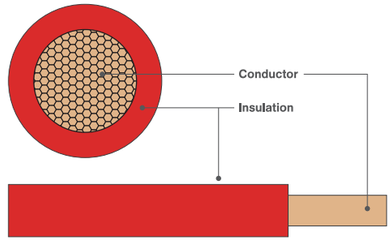
Model	Execution standards
60227 IEC 01 (BV)	GB/T 5023.3-2008/IEC 60227-3:1997
60227 IEC 05 (BV)	
ZC-60227 IEC 01 (BV)	GB/T 19666-2019/GB/T 5023.3-2008/IEC 60227-3:1997
ZC-60227 IEC 05 (BV)	



Nominal voltage (V)	Nominal cross section (mm²)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)		70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)		Reference weight (kg/km)		
									Common / ZR		NH
				Copper	Aluminum		Copper	Aluminum	Copper	Aluminum	Copper
300/500	0.75	1	2.2	24.5	-	0.012	14	-	11	-	15
	0.75	2	2.3	24.5	-	0.014	14	-	11	-	15
	1.0	1	2.3	18.1	-	0.011	16	-	14	-	18
	1.0	2	2.5	18.1	-	0.013	16	-	14	-	18
450/750	1.5	1	2.8	12.1	-	0.011	21	-	20	-	25
	1.5	2	3.0	12.1	-	0.010	21	-	20	-	25
	2.5	1	3.4	7.41	12.1	0.010	25	24	32	16	37
	2.5	2	3.6	7.41	-	0.009	25	-	32	-	37
	4.0	1	3.9	4.61	7.41	0.0085	38	32	46	22	53
	4.0	2	4.1	4.61	-	0.0077	38	-	46	-	53
	6.0	1	4.4	3.08	4.61	0.0070	49	43	66	31	74
	6.0	2	4.7	3.08	-	0.0065	49	-	66	-	74
	10	2	6.0	1.83	3.08	0.0065	68	55	115	53	117
	16	2	7.1	1.15	1.91	0.0050	91	75	173	75	174
	25	2	8.8	0.727	1.20	0.0050	120	96	269	117	269
	35	2	9.9	0.524	0.868	0.0040	150	115	370	152	368
	50	2	11.7	0.387	0.641	0.0045	180	140	493	202	489
	70	2	13.4	0.268	0.443	0.0035	230	180	694	272	687
	95	2	15.7	0.193	0.320	0.0035	290	215	959	372	948
	120	2	17.3	0.153	0.253	0.0032	335	255	1182	448	1174
	150	2	19.2	0.124	0.206	0.0032	390	290	1453	552	1432
	185	2	21.4	0.0991	0.164	0.0032	450	335	1820	694	1795
	240	2	24.5	0.0754	0.125	0.0032	545	400	2373	886	2351
	300	2	27.2	0.0601	0.100	0.0030	630	465	2966	1101	2926
	400	2	30.7	0.0470	0.0778	0.0028	735	550	3785	1396	3736

BVR Flexible copper core PVC insulated cable

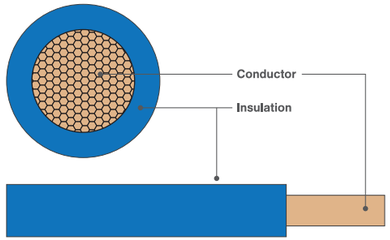
Model	Execution standards
BVR	JB/T 8734.2-2016
ZC-BVR	GB/T 19666-2019/JB/T 8734.2-2016



Nominal voltage (V)	Nominal cross section (mm²)	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)	70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)	Reference weight (kg/km)
450/750	0.75	2.5	24.5	0.013	14	15.2
	1.0	2.7	18.1	0.012	16	15.8
	1.5	3.0	12.1	0.011	21	21.1
	2.5	3.7	7.41	0.011	25	33.6
	4.0	4.2	4.61	0.009	38	49.6
	6.0	4.8	3.08	0.0084	49	70.6
	10	6.7	1.83	0.0072	68	121.9
	16	7.8	1.15	0.0062	91	175.7
	25	10.1	0.727	0.0058	120	287.3
	35	11.1	0.524	0.0052	150	377.4
	50	13.0	0.387	0.0051	180	518.4
	70	15.4	0.268	0.0045	230	719.7
	95	17.5	0.193	0.0044	290	961.9
	120	19.2	0.153	0.0040	335	1187.4
	150	21.7	0.124	0.0040	390	1463.6
	185	24.0	0.0991	0.0040	450	1830.7

BY Copper core polyolefin insulated cable

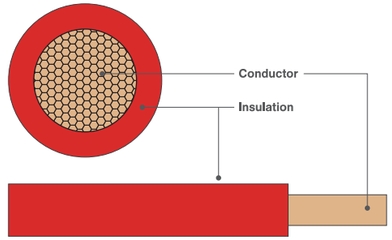
Model	Execution standards
WDZA-BY	GB/T 19666-2019/Q/LS 108-2024



Nominal voltage (V)	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)	70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)	Reference weight (kg/km)
300/500	0.75	1	2.2	24.5	0.012	14	11
	0.75	2	2.3	24.5	0.014	14	11
	1.0	1	2.3	18.1	0.011	16	14
	1.0	2	2.5	18.1	0.013	16	14
450/750	1.5	1	2.8	12.1	0.011	21	20
	1.5	2	3.0	12.1	0.010	21	20
	2.5	1	3.4	7.41	0.010	25	32
	2.5	2	3.6	7.41	0.009	25	32
	4.0	1	3.9	4.61	0.0085	38	46
	4.0	2	4.1	4.61	0.0077	38	46
	6.0	1	4.4	3.08	0.0070	49	66
	6.0	2	4.7	3.08	0.0065	49	66
	10	2	6.0	1.83	0.0065	68	115
	16	2	7.1	1.15	0.0050	91	173
	25	2	8.8	0.727	0.0050	120	269
	35	2	9.9	0.524	0.0040	150	370

RY Flexible copper core polyolefin insulated conductor cable

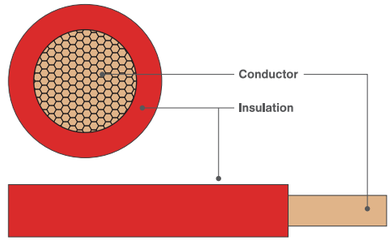
Model	Execution standards
WDZA-RY	GB/T 19666-2019/Q/LS 108-2024



Nominal voltage (V)	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)	70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)	Reference weight (kg/km)
300/500	0.75	5	2.3	26.0	0.011	14	12
	1.0	5	2.5	19.5	0.010	16	15
450/750	1.5	5	3.0	13.3	0.010	21	21
	2.5	5	3.9	7.89	0.009	25	34
	4.0	5	4.6	4.95	0.007	38	50
	6.0	5	5.3	3.30	0.006	49	71
	10	5	6.8	1.91	0.0056	68	118
	16	5	7.9	1.21	0.0046	91	176
	25	5	9.8	0.780	0.0044	120	275
	35	5	11	0.554	0.0038	150	366

BYJR Flexible copper core cross-linked polyolefin insulated cable

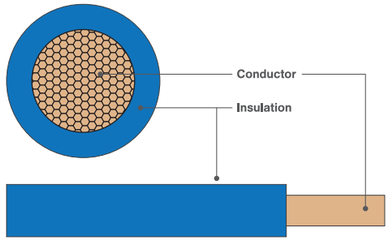
Model	Execution standards
WDZA-BYJR	JB/T 10491-2022
WDZA-BYJR-105	
WDZA-BYJR-125	



Nominal voltage (V)	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)	70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)	Reference weight (kg/km)
300/500	1.0	2	3.1	18.1	0.010	14	17
450/750	1.5	2	3.4	12.1	0.010	21	23
	2.5	2	4.1	7.41	0.010	33	35
	4.0	2	4.8	4.61	0.0079	48	52
	6.0	2	5.3	3.08	0.0068	68	72
	10	2	7.3	1.83	0.0066	114	124
	16	2	8.6	1.15	0.0054	171	182
	25	2	10.2	0.727	0.0051	266	292
	35	2	11.7	0.524	0.0043	365	381

BYJ Copper core cross-linked polyolefin insulated cable

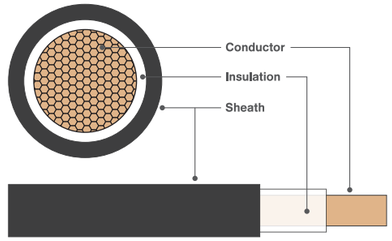
Model	Execution standards
WDZA-BYJ	JB/T 10491-2022
WDZA-BYJ-105	
WDZA-BYJ-125	



Nominal voltage (V)	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)		Ampacity (A)		Reference weight (kg/km)		
								WDZ-BYJ		WDZN-BYJ
				Copper	Aluminum	Copper	Aluminum	Copper	Aluminum	Copper
300/500	0.75	1	2.2	24.5	-	18	-	11	-	15
	0.75	2	2.3	24.5	-	18	-	11	-	15
	1.0	1	2.3	18.1	-	22	-	14	-	19
	1.0	2	2.5	18.1	-	22	-	14	-	19
450/750	1.5	1	2.8	12.1	-	28	-	21	-	26
	1.5	2	3.0	12.1	-	28	-	21	-	26
	2.5	1	3.4	7.41	-	41	-	33	-	39
	2.5	2	3.6	7.41	-	41	-	33	-	39
	4.0	1	3.9	4.61	-	54	-	48	-	55
	4.0	2	4.1	4.61	-	54	-	48	-	55
	6.0	1	4.4	3.08	-	68	-	68	-	76
	6.0	2	4.7	3.08	-	68	-	68	-	76
	10	2	6.0	1.83	-	93	-	114	-	125
	16	2	7.1	1.15	-	120	-	171	-	184
	25	2	8.8	0.727	-	155	-	266	-	282
	35	2	9.9	0.524	-	195	-	365	-	383
	50	2	11.7	0.387	-	235	-	492	-	513
	70	2	13.4	0.268	-	295	-	690	-	715
	95	2	15.7	0.193	-	370	-	953	-	981
	120	2	17.3	0.153	-	430	-	1179	-	1211
	150	2	19.2	0.124	-	495	-	1449	-	1484
	185	2	21.4	0.0991	-	570	-	1815	-	1855
	240	2	24.5	0.0754	-	680	-	2376	-	2421
	300	2	27.2	0.0601	-	790	-	2969	-	3018

BVV Copper core PVC insulated PVC sheathed round cable

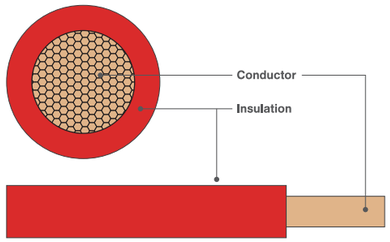
Model	Execution standards
BVV	JB/T 8734.2-2016
ZC-BVV	GB/T 19666-2019/JB/T 8734.2-2016



Nominal voltage (V)	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)		70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)		Reference weight (kg/km)	
				Copper	Aluminum		Copper	Aluminum	Copper	Aluminum
300/500	0.75	1	3.8	24.5	-	0.012	14	-	22	-
	0.75	2	3.9	24.5	-	0.014	14	-	22	-
	1.0	1	3.9	18.1	-	0.011	16	-	25	-
	1.0	2	4.1	18.1	-	0.013	16	-	25	-
	1.5	1	4.4	12.1	-	0.011	21	-	33	-
	1.5	2	4.6	12.1	-	0.010	21	-	33	-
	2.5	1	5.0	7.41	12.1	0.010	25	24	47	32
	2.5	2	5.2	7.41	-	0.009	25	-	47	-
	4.0	1	5.7	4.61	7.41	0.0085	38	32	66	42
	4.0	2	5.9	4.61	-	0.0077	38	-	66	-
	6.0	1	6.2	3.08	4.61	0.0070	49	43	88	53
	6.0	2	6.5	3.08	-	0.0065	49	-	88	-
	10	2	7.8	1.83	3.08	0.0065	68	55	114	82
	16	2	8.9	1.15	1.91	0.0050	91	75	206	108
	25	2	10.8	0.727	1.20	0.0050	120	96	314	162
	35	2	12.1	0.524	0.868	0.0040	150	115	426	207
	50	2	14.3	0.387	0.641	0.0045	180	140	571	280
	70	2	16.2	0.268	0.443	0.0035	230	180	789	367
	95	2	18.7	0.193	0.320	0.0035	290	215	1078	491
	120	2	20.5	0.153	0.253	0.0032	335	255	1321	587
	150	2	22.8	0.124	0.206	0.0032	390	290	1626	726
	185	2	25.2	0.0991	0.164	0.0032	450	335	2023	898
	240*	2	27.7	0.0754	0.125	0.0032	545	400	2565	1087
	300*	2	30.6	0.0601	0.100	0.0030	630	465	3191	1327
	400*	2	34.3	0.0470	0.0778	0.0028	735	550	4053	1662

RV Flexible copper core PVC insulated cable

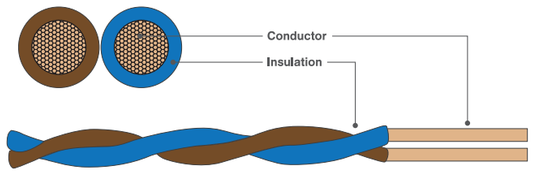
Model	Execution standards
60227 IEC 02 (RV)	GB/T 5023.3-2008/IEC 60227-3:1997
60227 IEC 06 (RV)	
ZC-60227 IEC 02 (RV)	GB/T 19666-2019/GB/T 5023.3-2008/IEC 60227-3:1997
ZC-60227 IEC 06 (RV)	



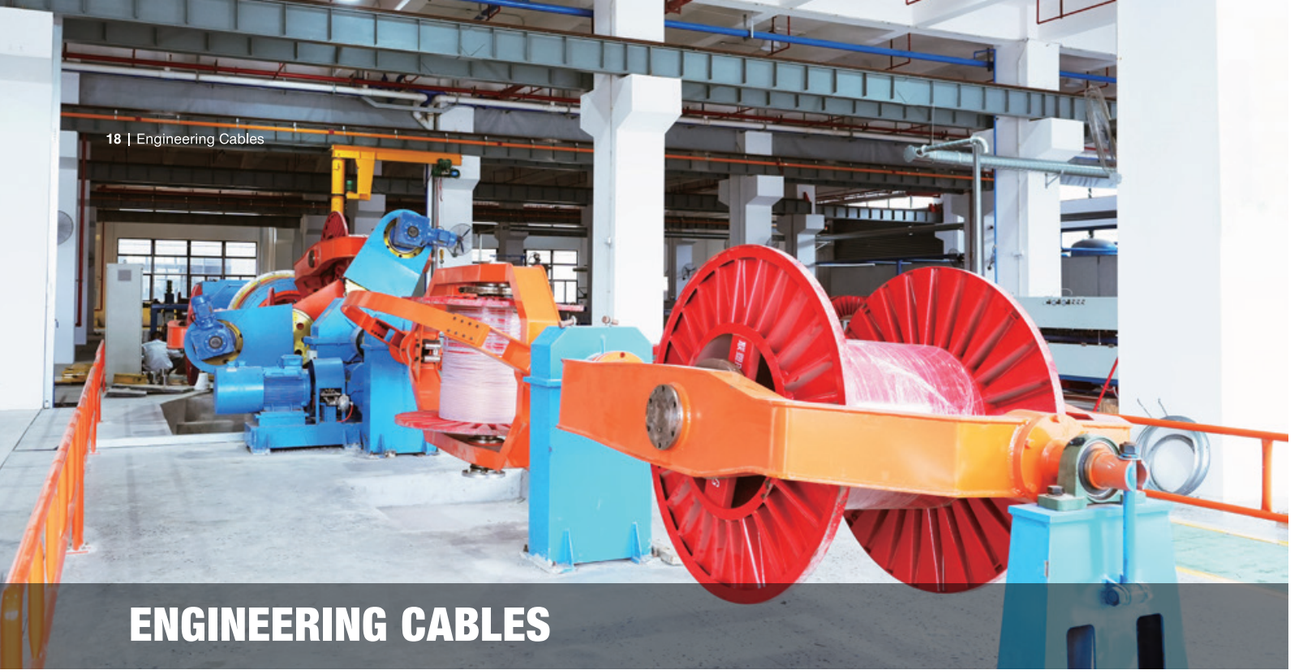
Nominal voltage (V)	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)	70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)	Reference weight (kg/km)
300/500	0.75	5	2.3	26.0	0.014	14	12
	1.0	5	2.5	19.5	0.011	16	15
450/750	1.5	5	3.0	13.3	0.010	21	21
	2.5	5	3.9	7.89	0.009	25	34
	4.0	5	4.6	4.95	0.007	38	50
	6.0	5	5.3	3.30	0.006	49	71
	10	5	6.8	1.91	0.0056	68	118
	16	5	7.9	1.21	0.0046	91	176
	25	5	9.8	0.780	0.0044	120	275
	35	5	11.0	0.554	0.0038	150	366
	50	5	13.7	0.386	0.0037	180	538
	70	5	15.7	0.272	0.0032	230	735
	95	5	18.3	0.206	0.0032	290	921
	120	5	20.3	0.161	0.0029	335	1158
	150	5	23.2	0.129	0.0029	390	1447
	185	5	25.1	0.106	0.0029	450	1766
	240	5	34.7	0.0801	0.0028	545	2360

RVS Copper core PVC insulated stranded connection use soft cable

Model	Execution standards
RVS	JB/T 8734.3-2016
ZC-RVS	GB/T 19666-2019/JB/T 8734.3-2016



Nominal voltage (V)	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)	70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)	Reference weight (kg/km)
300/300	2×0.75	6	5.72	26.0	0.013	12	22
	2×1.0	6	6.20	19.5	0.012	14	30
	2×1.5	6	6.86	13.3	0.009	18	37
	2×2.5	6	8.26	7.89	0.009	25	48
	2×4.0	6	9.30	4.95	0.007	33	71
	2×6.0	6	11.9	3.30	0.006	42	105



ENGINEERING CABLES

Application

RVV type cables are suitable for medium and light mobile electrical appliances, instruments, household appliances, power equipment, lighting equipment and other soft or mobile applications with rated voltages of 300/500V and below.

YJV type low-voltage power cables are suitable for fixed laying on the transmission and distribution lines of electric power, construction, metallurgy and other industries with rated voltages of 600/1000V and below, in indoor, cable trench, direct buried pipeline and other fixed applications.

- Wide applicability
- Low eccentricity
- 100% sufficient length
- High temperature resistance
- Safety and environmental protection
- Flame retardant insulation

Mechanical Performance

Temperature range

- Max. operating temperature for PVC insulated cable conductor: +70°C;
- Max. operating temperature for cross-linked polyolefin cable: +90°C;
- Max. duration of cable short circuit: 5 sec;
- Max. temperature for polyvinyl chloride insulated cable conductor: +160°C;
- Max. temperature for cross-linked polyolefin insulated cable conductor: +250°C.

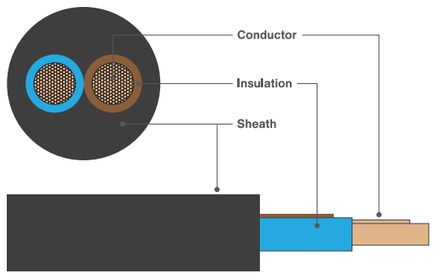
Bending radius

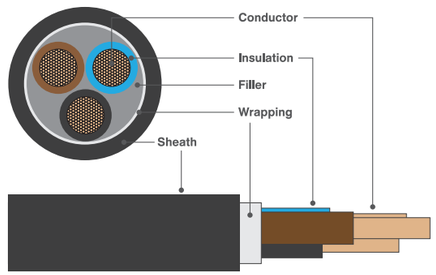
- The RVV cable bending radius should not exceed 7D;
- Low-voltage cable and single-core unarmored cable bending radius should not exceed 20D;
- The bending radius of a single-core armored cable should not exceed 15D;
- The bending radius of a multi-core unarmored cable should not exceed 15D;
- The bending radius of a multi-core armored cable should not exceed 12D.

Construction

The conductor is made of high quality copper, aluminum or aluminum alloy conductor, offering outstanding electrical conductivity, oxidation resistance and thermal conductivity. The insulation of the product is made of high quality polyvinyl chloride or crosslinked polyethylene, providing good insulation properties, mechanical properties, aging resistance and other characteristics. The sheath of the product is made of high quality polyvinyl chloride or low smoke halogen-free polyolefin, offering excellent aging resistance, oil resistance, wear resistance, and non-delay fire resistance.

RVV Flexible copper core PVC insulated PVC sheathed cable

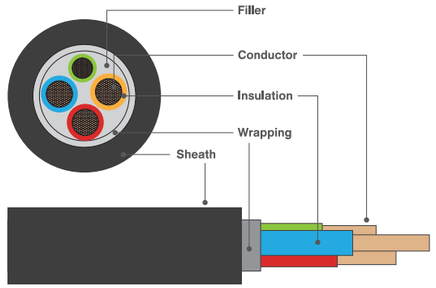




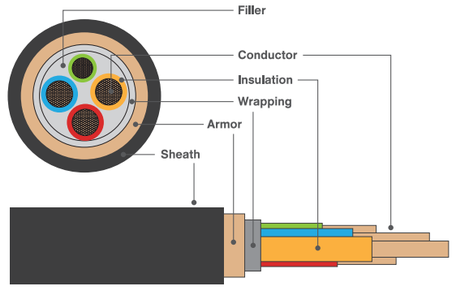
Model	Execution standards
RVV	JB/T 8734.3-2016
60227 IEC 52 (RVV)	GB/T 5023.5-2008/IEC 60227-5:2003
60227 IEC 53 (RVV)	
ZC-RVV	GB/T 19666-2019/JB/T 8734.3-2016
ZC-60227 IEC 52 (RVV)	GB/T 19666-2019/GB/T 5023.5-2008/IEC 60227-5:2003
ZC-60227 IEC 53 (RVV)	

Nominal voltage (V)	Nominal cross section (mm^2)	Conductor type	Outer diameter (mm)	20℃ Max.DC resistance (Ω/km)	70℃ Min. Insulation resistance (MΩ•km)	Ampacity (A)	Reference weight (kg/km)
300/500	2x0.75	5	6.8	26.0	0.011	14	47
	2x1.0	5	7.1	19.5	0.010	16	54
	2x1.5	5	8.0	13.3	0.010	21	70
	2x2.5	5	10.1	7.98	0.009	25	111
	2x4.0	5	11,7	4.95	0.007	38	157
	2x6.0	5	13.2	3.30	0.006	49	207
	2x10	5	16.3	1.91	0.0056	68	326
	3x0.75	5	7.2	26.0	0.011	14	60
	3x1.0	5	7.5	19.5	0.010	16	70
	3x1.5	5	8.7	13.3	0.010	21	97
	3x2.5	5	10.9	7.98	0.009	25	153
	3x4.0	5	12.7	4.95	0.007	38	217
	3x6.0	5	14.3	3.30	0.006	49	289
	4x0.75	5	7.8	26.0	0.011	14	75
	4x1.0	5	8.4	19.5	0.010	16	91
	4x1.5	5	9.6	13.3	0.010	21	126
	4x2.5	5	11.9	7.98	0.009	25	192
	4x4.0	5	13.9	4.95	0.007	38	275
	4x6.0	5	15.7	3.30	0.006	49	369
	5x0.75	5	8.7	26.0	0.011	14	93
	5x1.0	5	9.1	19.5	0.010	16	109
	5x1.5	5	10.7	13.3	0.010	21	156
	5x2.5	5	13.2	7.98	0.009	25	237
	5x4.0	5	15.5	4.95	0.007	38	347
	5x6.0	5	18.6	3.30	0.006	49	499

YJV Copper core XLPE insulated PVC sheathed power cable



YJV(3+1 core)



YJV22(3+1 core)

Model	Execution standards
YJV	GB/T 12706. 1-2020
YJV22	GB/T 12706. 1-2020
ZC-YJV	GB/T 12706. 1-2020
ZC-YJV22	GB/T 12706. 1-2020
WDZ-YJY	GB/T 12706. 1-2020
WDZ-YJY23	GB/T 12706. 1-2020
ZC-YJLHV	GB/T 31840. 1-2015
ZC-YJLHV22	GB/T 31840. 1-2015
YJLHV	GB/T 31840. 1-2015
YJLHV22	GB/T 31840. 1-2015
WDZ-YJLHY	GB/T 31840. 1-2015
WDZ-YJLHY23	GB/T 31840. 1-2015

YJV, YJLHV XLPE insulated power cable

Nominal voltage (V)	Nominal cross section (mm^2)	Outer diameter (mm)	Ampacity (A)			
			Laid in air		Buried laying	
			Copper	Aluminum	Copper	Aluminum
600/1000	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
	3×16+2×10	19.9	84	65	110	85
	3×25+2×16	23.5	110	87	140	110
	3×35+2×16	25.2	135	105	170	130
	3×50+2×25	29.3	170	130	205	160
	3×70+2×35	33.9	215	165	250	195
	3×95+2×50	38.4	265	205	300	235
	3×120+2×70	43.3	310	240	345	265
	3×150+2×70	46.8	350	270	385	300
	3×185+2×95	52.1	405	315	435	340
	3×240+2×120	58.0	480	375	500	395
	3×300+2×150	64.4	555	435	565	445
	4×10+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 XLPE insulated power cable

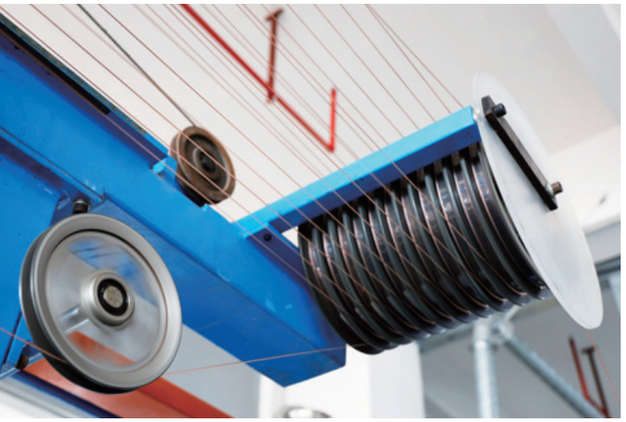
Nominal voltage (V)	Nominal cross section (mm^2)	Outer diameter (mm)	Ampacity (A)			
			Laid in air		Buried laying	
			Copper	Aluminum	Copper	Aluminum
600/1000	3×16+1×10	20.6	83	64	110	85
	3×25+1×16	24.1	110	86	140	110
	3×35+1×16	25.9	135	105	170	130
	3×50+1×25	29.4	165	125	200	155
	3×70+1×35	34.1	210	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
	3×16+2×10	21.9	83	64	110	85
	3×25+2×16	25.5	110	86	140	110
	3×35+2×16	27.2	135	105	170	130
	3×50+2×25	31.3	165	125	200	155
	3×70+2×35	35.9	210	165	245	190
	3×95+2×50	42.2	260	200	300	230
	3×120+2×70	47.3	305	235	335	260
	3×150+2×70	50.8	345	270	380	295
	3×185+2×95	56.5	395	310	430	335
	3×240+2×120	62.4	465	365	500	390
	3×300+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

LESSO

L LINK

S SAFE

O OPEN



E EASY

S SHARE

ENVISIONING THE BETTER,
BUILDING THE FUTURE.