Meitong Tech

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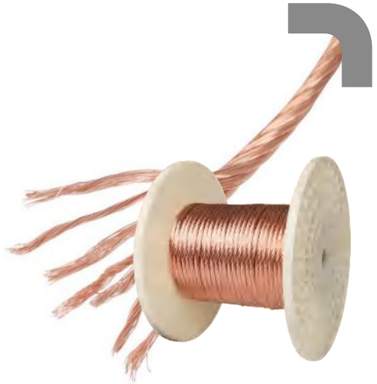
HIGH VISION NEW HORIZON

COPPER CLAD ALUMINUM STRANDED WIRE

CCA/铜包铝绞线



Application

1.THW cable 2.Extension cable 3.Rf cable 4.Building cable
5.Boost/battery cable 6.Welding cable 7.Speaker cable

Specification and Technology date				
Section area(mm^2)	Structure(number/mm)	Resistance(Ω/km) max	Tensile Strength (Mpa)	Elongation
0.60/0.50	19/0.20	42.20	100-150	1-25
0.75	19/0.23	34.18		
1.00	19/0.26	26.75		
1.50	19/0.32	17.65		
2.00	19/0.36	13.95		
2.50	19/0.41	10.32		
3.00	19/0.47	8.32		
4.00	19/0.53	6.48		
5.00	19/0.59	5.23		
8.00	19/0.73	3.42		
10.00	19/0.82	2.7		
15.00	19/1.01	1.75		
20-400	All technology data and structure are complied customer's request			

COPPER CLAD STEEL STRANDED WIRES

CCS/铜包钢绞线

Application

1.Earth rod for power industry 2.Trolly wire for power transmission
3.Overhead-contact systems for railway
4.Connectors for electronic components
5.Strengthened conductivity wire core for special cable

CCS Stranded & Bunched Wire						Note:
Conductor Size Designation	Nominal Diameter		Nominal Total Cross-Section	Minimum Rated Tensile Strength	Max.DC Resistance at 20°C	All Above Copper-Clad-Steel Wire Conforming To ASTMB910/B910M
AWG	Overall(mm)	IndividualWire (mm)	(mm^2)	(KN)	(Ohm/km)	
3NO.12	4.09	2.05	9.929	4.59	4.465	
3NO.10	5.17	2.588	15.781	6.68	2.808	
3NO.8	6.52	3.264	25.097	8.02	1.7662	
7NO.10	7.77	2.588	36.83	9.15	1.244	
7NO.9	8.71	2.906	46.44	11.5	0.9865	
7NO.8	9.78	3.264	58.57	14.54	0.782	
7NO.7	11.00	3.665	73.87	18.34	0.6202	
7NO.6	12.34	4.115	93.1	23.13	0.492	
7NO.5	13.87	4.62	117.42	29.14	0.3903	
7NO.4	15.57	5.189	148.04	36.77	0.3094	
19NO.8	16.31	3.264	158.97	39.45	0.2892	
19NO.7	18.31	3.665	200.45	49.79	0.2294	
19NO.6	20.57	4.115	252.71	62.77	0.1819	
19NO.5	23.11	4.62	318.71	79.1	0.1443	

TIN PLATED COPPER &CCA WIRE

镀锡铜/铜包铝

Application

1.Leading wires for Electronic components 2.Jump wires for plug-ins
3.Transformer skeleton pin 4.Capacitance fuses
5.Fuse material 6.Braided wire
7.An ideal conductor material in the communication,
electronic and power industries

Nominal Diameter (mm)	Allowable Tolerance (mm)	Thickness of Silver(μm)		Tensile Strength(Mpa)		Elongation (nominal distance 250mm) (%)	
		I	II	R	Y/TY	R	TY
0.08	±0.003	0.3<h≦0.5	0.5<h≦1	≧320	≧900	≧10	≧0.5
0.10							
0.12							
0.16							
0.2							
0.254							
0.3	±0.01	5<h≦10	10<h≦15	≧290	≧900	≧10	≧1.5
0.4							
0.5							
0.51					1100-1250		
0.59					≧900		
0.60							
0.61					900-1100		
0.63							
0.65							
0.7							
0.71							
0.8	±0.015				≧800		
0.83					850-1000		
0.91							
1.0	±0.02				≧700		
1.1							
1.2							

ALUMINUM ALLOY STRANDED WIRE

铝合金绞线

Application

1.THW cable 2.Building cable 3.ACSR 4.AAAC
5.Low & middle voltage cable 6.Extension cord cable
7.Other kinds of power cable 8.Solar cable

Specification and Technology data							
Code	Nom.area	Stranding	cla Size	O.D	mass	Strength	Resistance(20℃)
	mm^2	No./mm	mm^2	mm	kg/km	kgf	Ω/km
Box	15	7/1.85	18.82	5.55	51	537	1.7495
Acacia	20	7/2.08	23.79	6.24	65	680	1.384
Almond	25	7/2.34	30.1	7.02	82	861	1.0934
Cedar	30	7/2.54	35.47	7.62	97	1014	0.9281
-	35	7/2.77	42.18	8.31	115	1205	0.7804
Fir	40	7/2.95	47.87	8.85	131	1367	0.688
Hazel	50	7/3.30	59.87	9.9	164	1711	0.5498
Pine	60	7/3.61	71.65	10.83	194	2048	0.4594
-	70	7/3.91	84.05	11.73	130	2402	0.3917
Willow	75	7/4.04	89.73	12.12	245	2565	0.3669
-	80	7/4.19	96.52	12.57	264	2758	0.3441
-	90	7/4.44	108	13.32	298	3112	0.3023
Oak	100	7/4.65	118.9	13.95	325	3398	0.2769
-	100	19/2.82	118.7	14.1	326	3393	0.2787
mulberry	125	19/3.18	150.9	15.9	415	4312	0.2192
Ash	150	19/3.48	180.7	17.4	497	5164	0.1831
Elm	175	19/3.76	211	18.8	580	6030	0.1568
Poplar	200	37/2.87	239.4	20.09	659	8841	0.1385
-	225	37/3.05	270.3	21.35	744	7724	0.1227
Sycamorc	250	37/3.22	303.2	22.54	835	8664	0.1093
Upas	300	37/3.53	362.1	24.71	997	10350	0.09156
Walnut	350	37/3.81	421.8	26.67	1162	12053	0.0786
Yew	400	37/4.06	479	28.42	1319	13685	0.06921
Totara	425	37/4.14	498.1	28.98	1372	14233	0.06656
Rubus	500	61/3.50	586.9	31.5	1620	16771	0.05662
Araucaria	700	61/4.14	821.1	37.25	2266	23450	0.01047

NICKEL PLATED COPPER WIRE（镀镍铜丝）(CCS/CCA/Copper Alloy)

	Nominal Diameter(mm)			
	0.05≤d≤0.1	0.1<d≤0.23	0.23<d≤0.5	0.5<d≤3.26
Tolerance(mm)	±0.002	±0.003	±0.004	±d%
Electrical Resistivity (Ωm ㎡/m)	GB/T11019-2021 form5			
Elongation(%)	GB/T11019-2021 form4			
Tensile Strength(Mpa)	Soft:≥196 Hard:≥350			
Coating Lay thickness (μm)	0.3-5.0um			
Exterior	No scratches, oil stains,copper exposure,oxidation.etc			
packing	8inch、9inch、type300-plastic reel			
Note	Can be customized			

SILVER PLATED COPPER WIRE（镀银铜丝）(CCS/CCA/Brass/Copper Alloy)

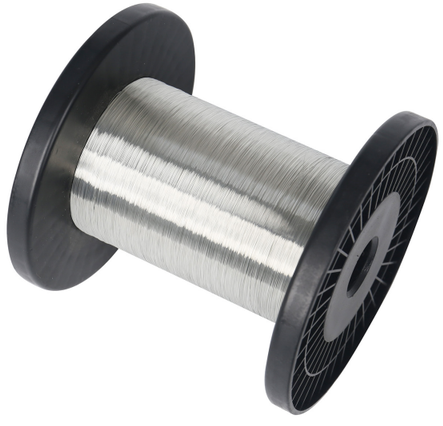
Silver Plated Copper Wire - Single				
Project	Diameter(mm)			
	0.05≤d≤0.1	0.1<d≤0.25	0.25<d≤0.5	0.5<d≤2.0
tolerance(mm)	±0.002	±0.003	±0.004	±d%
electrical resistivity ($\Omega mm^2/m$)	≤0.017241(soft)			
	≤0.01796(hard)			
Elongation(%)	≥13%	≥18%	≥20%	≥25%
Tensile Strength(Mpa)	soft:≥196 hard:≥350			
plating(um)	0.2—10um			
appearance	No scratches, oil, copper exposure, oxidation and other abnormalities			
Package	5 inch, 8 inch, 9 inch, 300 type, 400 type rubber disc, 400 type steel disc, 500 type steel disc, etc			
remark	Can be changed according to customer requirements			

Silver Plated Copper Wire - Stranded			
Project	Diameter(mm)		
	0.05≤d≤0.09	0.09<d≤0.25	0.25<d≤0.5
tolerance(mm)	±0.003	±0.004	±0.005
electrical resistivity($\Omega mm^2/m$)	≤0.01851	≤0.01802	≤0.0177
Elongation(%)	≥6	≥12	≥15
number wire	7-100		
lay direction	S OR Z		
lay length(mm)	2.0—100mm		
Tensile Strength(Mpa)	≥196		
plating(um)	0.3—2.0um		
appearance	No scratches, oil, copper exposure, oxidation and other abnormalities		
Package	DIN200、DIN300、DIN400 rubber disc, 400 type steel disc, DIN500 steel disc, etc		
remark	Can be changed according to customer requirements		

AgCu-Alloy Wire
银铜合金

The AgCu-Alloy Wire not only has high strength and high electrical conductivity, but also has excellent creep resistance, fatigue resistance, heat resistance, wear resistance and electrical contact performance.

Product type	CLASS	Wire diameter (mm)	Tensile Strength (Mpa)	Elongation (%)	Electrical Conductivity (%)
0.6%Ag	Hard state	0.09	⩾490	≥0.2	≥90
1%Ag	Hard state	0.09	⩾540	≥0.2	≥89
2%Ag	Hard state	0.09	⩾590	≥0.2	≥85
4%Ag	Hard state	0.09	⩾660	≥0.2	≥78



SnCu -Alloy Wire
锡铜合金

SnCu -Alloy Wire has excellent tensile strength and good bending performance. Moreover, in the subsequent process, a reasonable heat treatment process is adopted. The wire has good drawability, greatly reducing the wire breakage rate of drawn wires.

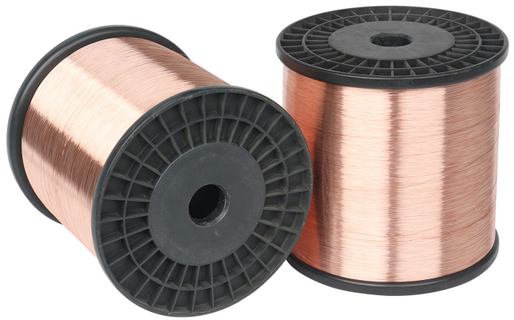
Product type	CLASS	Wire diameter (mm)	Tensile Strength (Mpa)	Elongation (%)	Electrical Conductivity (%)
0.15%Sn	Hard state	0.09	⩾490	≥0.2	≥85
0.3%Sn	Hard state	0.09	⩾530	≥0.2	≥75
0.7%Sn	Hard state	0.09	⩾580	≥0.2	≥60
1.35%Sn	Hard state	0.09	⩾660	≥0.2	≥46
3.5%Sn	Hard state	0.09	⩾920	≥0.2	≥25

Available sizes: 0.05 to 1.0mm (other sizes are available through consultation)

MgCu-Alloy Wire
镁铜合金

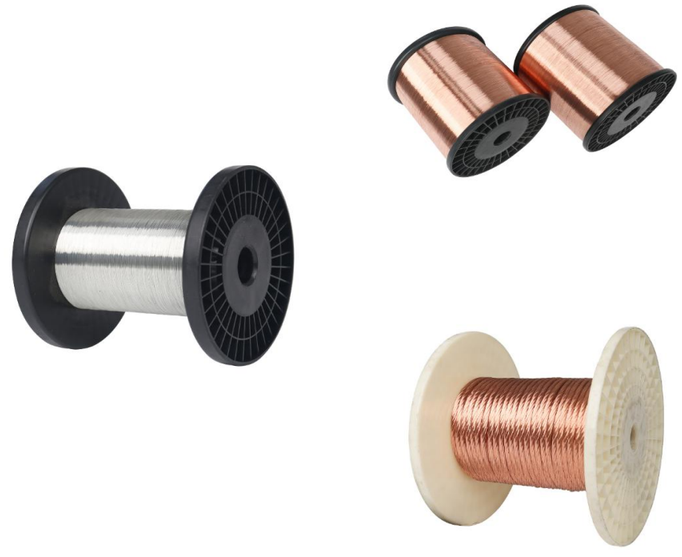
MgCu-Alloy Wire has excellent electrical conductivity and high tensile strength. In addition to being applied to load-bearing cables and contact wires for electrified railways, it is also widely used in special wires such as speaker leads, automotive wires, airborne antennas, and high-temperature cables.

Product type	Mg content %	Tensile Strength (N/mm^2)		Electrical Conductivity (%)	
		Y	M	Y	M
0.2%Mg	0.2±0.05	⩾450	⩾220	≥75	≥82
0.5%Mg	0.5±0.05	⩾600	⩾240	≥62	≥75
0.8%Mg	0.8±0.05	⩾700	⩾260	≥50	-



Other Alloy Wire
其它合金线

Name of Material	size (mm)	Tensile Strength (Mpa)	Elongation (%)	Coated/Plated
CuCr-Alloy 铬铜合金线	0.03-1.8	⩾770	1-5	Sliver/Tin/Nickel
100% Ag Wire 纯银线	0.03-4.0	⩾130	1-5	Sliver/Tin/Nickel
NiCr-Alloy 镍铬合金线	0.03-1.0	⩾800	1-5	Sliver/Tin/Nickel
Ni-Cr-Ti Alloy 镍铬切割线	Cr20Ni80	Cr30Ni70	Cr30Ni70	Cr20Ni35
NbCu Alloy 铌铜合金线	0.03-1.0	⩾770	1-5	Glod/Sliver/Tin/ Nickel
Cu-Be Alloy 铍铜合金线	0.03-1.2	⩾1000	1-5	Sliver/Tin/Nickel



COPPER BRAIDED WIRE（铜编织线）

Flat copper braided wire is used for electrical equipment, electricity equipment, elecronic railway Net electricity, electricla switches, industrial furnace, batteries and other soft connecting wire.
It`s made by high purity cathode copper rod , the tinned type is made by electrolytic or electric tin plating process, which has high corrosion resistance

Copper braided wire`s products standards: GB6313
Copper braided wire `s products type:TZ−20/TZX−20
Copper braided wire `s products type:TZ−15/TZX−15
Copper braided wire `s products type:TZ−10/TZX−10

GB6313.92 TZ−20 & TZX−20 Table one

Section mm²		Structure: Number of wires * qty/diameter of a single wire	Size mm		20℃ direct current resistance (Ω/km) no more than		Calculating weight kg/km
Standard	Calculating		The Max width	Thick ness for reference	TZ−20	TZX−20	
16	16.59	24*22*1/0.20	16	3.0	1.30	1.36	166
25	24.88	24*33*1/0.20	18	3.5	0.87	0.91	249
35	33.18	24*44*1/0.20	20	4.0	0.65	0.68	331
50	49.77	24*33*2/0.20	22	5.0	0.43	0.45	498
70	66.36	24*44*2/0.20	24	6.5	0.32	0.33	664
95	90.49	24*40*3/0.20	20		0.24	0.25	905
120	120.65	24*40*4/0.20	22		0.18	0.19	1207
150	150.82	24*40*5/0.20	24		0.14	0.15	1508
185	180.98	24*40*6/0.20	26		0.12	0.13	1810
240	241.31	24*40*8/0.20	30		0.089	0.093	2413
300	301.63	24*40*10/0.20	35		0.071	0.075	3016
400	401.17	24*40*10/0.20 +36*44*2/0.20	40		0.054	0.056	4004
500	500.65	34*40*10/0.20 +48*44*3/0.20	45		0.043	0.045	5007
630	633.43	24*40*10/0.20 +48*44*5/0.20	50		0.034	0.036	6334
800	766.15	24*40*10*0.20 +48*44*7/0.20	55		0.028	0.029	7661

1. TZ−20/TZX−20 type copper braided wire structure is presented in Table 1
2. TZ−15/TZX−15 type copper braided wire structure is presented in Table 2
3. TZ−10/TZX−10 type copper braided wire structure is presented in Table 3

GB6313.92 TZ−15 & TZX−15 Table Two

Section mm²		Structure: Number of wires * qty /diameter of a single wire	Size mm		20℃ direct current resistance (Ω/km) no more than		Calculating weight kg/km
Standard	Calculating		The Max width	Thick ness for reference	TZ−20	TZX−20	
4	3.39	48*4*1/0.15	9	1.0	6.36	6.65	34
4	3.82	36*6*1/0.15	9	1.5	5.64	5.89	38
6	5.09	48*6*1/0.15	12	1.2	4.23	4.42	51
10	10.18	48*12*1/0.15	20	1.4	2.12	2.22	102
10	10.18	36*16*1/0.15	16	2.0	2.12	2.22	102
16	16.96	48*20*1/0.15	22	2.0	1.27	1.33	170
16	16.54	36*26*1/0.15	20	2.5	1.30	1.35	166
20	20.36	36*32*1/0.15	22	3.0	1.06	1.10	204
25	25.44	48*30*1/0.15	22	3.0	0.85	0.89	254
25	25.44	36*40*1/0.15	26	3.0	0.85	0.89	254
35	33.93	48*20*2/0.15	26	3.2	0.64	0.67	340
35	35.62	36*56*1/0.15	32	3.0	0.61	0.64	357
50	50.89	48*20*3/0.15	28	4.8	0.42	0.44	510
50	50.89	36*40*2/0.15	28	5.0	0.43	0.44	510
70	71.25	48*28*3/0.15	36	5.0	0.30	0.31	714
70	71.25	36*56*2/0.15	35	6.0	0.30	0.31	714
75	76.33	36*40*3/0.15	30	7.0	0.28	0.29	765
95	95.00	40*28*4/0.15	40	6.0	0.23	0.24	950
120	118.74	48*28*5/0.15	42	7.0	0.18	0.19	1187

GB6313.92 TZ−10 & TZX−10 Table Three

Section mm²		Structure: Number of wires * qty /diameter of a single wire	Size mm		20℃ direct current resistance (Ω/km) no more than		Calculating weight kg/km
Standard	Calculating		The Max width	Thick ness for reference	TZ−20	TZX−20	
4	3.96	36*14*1/0.10	8	1.0	5.44	5.69	40
6	5.93	36*21*1/0.10	10	1.2	3.63	3.79	59
10	10.17	36*36*1/0.10	14	2.0	2.12	2.22	120
16	15.83	36*56*1/0.10	16	2.5	1.36	1.42	158
25	23.74	36*42*2/0.10	18	3.5	0.91	0.95	237
35	35.61	36*42*3/0.10	20	4.5	0.60	0.63	156

SOFT CONNECTING WIRE（软连接线）

Soft connecting wires are widely used in various types of vacuum circuit breaker, wire and cable soft conductor; electrical equipment soft connection, electronic railway contact network and high &low voltage switch, transformer, Low voltage leadingout terminal, electric welding machine, seam welding machine and resistance welding machine

The main products: 1.soft connection of braided copper wire
2.soft connection of soft copper stranded wire

The soft connection wire`s conductor is soft copper stranded wire or the copper braiding wire. On both ends ,there is tubular steel or tinned brass. According to the size of the joint, process it to a Soft connection wire or Soft grounding wire.

1 .The characteristics of the products

1) The braided copper wire is made of high quality round copper wire (0.10mm, 0.15mm,0.20mm) or tinning soft round copper wire (0.10mm, 0.15mm) , braided by multi shares through one layer or multi layer

2) The DC resistivity (20 ℃) of the braided copper wire is max to 0.022 Ω.mm²/m
The DC resistivity (20 ℃) of the tinned braided copper wire is max to 0.0234 Ω.mm²/m

COPPER FLAT WIRE
扁铜线

Product Classification: silver plated flat wire / tin plated flat wire / nickel plated flat wire /bare copper flat wire.
Product Application: widely used in fields such as RF cables, stable phase cables, electronics, medical, aerospace, military, etc.

Specifications For Wrapping Tape

size(mm)	width(mm)	width tolerance (mm)	thickness (mm)	thickness tolerance (mm)	plating(um)	elongation(%)
1.0*0.038	1.0	±0.015	0.038	±0.003	2	⩾20
1.2*0.05	1.2	±0.015	0.05	±0.003	2	⩾25
1.5*0.04	1.5	±0.015	0.04	±0.003	2	⩾25
1.5*0.05	1.5	±0.015	0.05	±0.003	2	⩾25
2.0*0.05	2.0	±0.020	0.05	±0.003	2	⩾25
2.3*0.05	2.3	±0.020	0.05	±0.005	2	⩾25
2.5*0.05	2.5	±0.020	0.05	±0.005	2	⩾25
3.0*0.08	3.0	±0.025	0.08	±0.005	2	⩾25
3.3*0.076	3.3	±0.025	0.076	±0.005	2	⩾25
3.5*0.08	3.5	±0.025	0.08	±0.005	2	⩾25

Specifications For Braided Tape

size(mm)	width(mm)	width tolerance (mm)	thickness (mm)	thickness tolerance (mm)	plating(um)	elongation(%)
0.17*0.05	0.17	±0.015	0.05	±0.003	0.7-2	⩾15
0.3*0.03	0.3	±0.015	0.03	±0.003	0.7-2	⩾15
0.3*0.038	0.3	±0.015	0.038	±0.003	0.7-2	⩾15
0.4*0.038	0.4	±0.015	0.038	±0.003	0.7-2	⩾18
0.5*0.038	0.5	±0.020	0.038	±0.003	0.7-2	⩾18
0.8*0.05	0.8	±0.020	0.05	±0.003	0.7-2	⩾20
1.0*0.05	1.0	±0.020	0.05	±0.003	0.7-2	⩾20
1.2*0.05	1.2	±0.020	0.08	±0.0035	0.7-2	⩾20

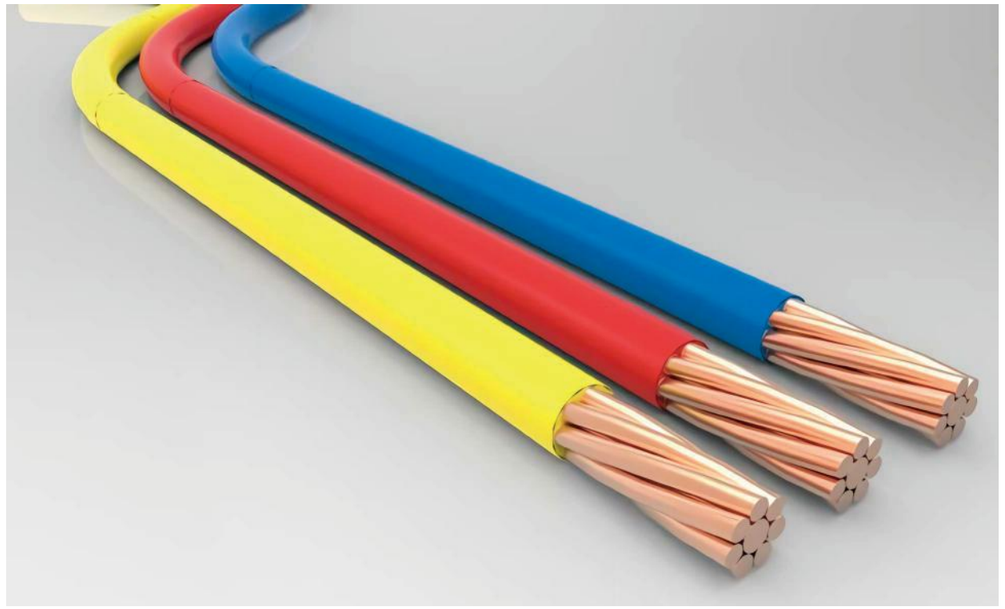
PVC INSULATED THW STRANDED SINGLE CABLE

Application

General purpose wiring for lighting and power - residential, commercial, industriabuildings in accordance with the National Electrica Code, maximum conductortemperature of 75℃ in wet or dry locations, for circuits not exceeding 600 volts.

Construction

Annealed copper/CCA conductor,PVCinsulation.



ALUMINUM ALLOY CABLES (FLEXIBLE) FOR PHOTOVOLTAIC POWER GENERATION SYSTEM

Product standards

The performance meets the requirements of TUV 2PFG 2642/11.17 or EN50618 standard.

Product characteristics and scope of application

It is suitable for outdoor installation under different climatic conditions, and can also adapt to dry or humid indoor working environment. It has the characteristics of long service life and high cost performance.

It is applicable to the connection between solar cell modules, the connection between battery and inverter, and the connection between battery array and controller or DC junction box.

Product parameters

Rated voltage:
AC: U0/U:0.6/1KV
DC: 1.5KV、1.8KV(conductor to conductor, ungrounded system, non load line)
(If the cable is used in a DC system, the rated voltage between the two conductors shall not exceed 1.5 times the effective value of the rated voltage U of the cable. In a single-phase grounded DC system, this value should be multiplied by a factor of 0.5.)

Temperature range:
Ambient temperature: -40℃-90℃
Maximum operating temperature of conductor: 125℃
Maximum operating ambient temperature of cable: 90℃
Allowable short circuit temperature 250 ℃ within 5S
Bending radius. The minimum bending radius is 6 times of the cable diameter
Service life ≥ 25 years