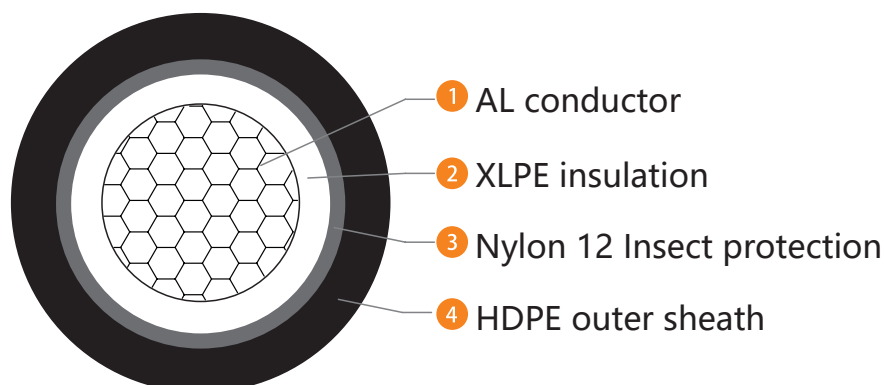


1.8/3.3KV POWER CABLE

AL/XLPE/NY/HDPE



Properties:

Rated Voltage	1.8/3.3kV
Max. operating temperature of conductor	90°C
Min. ambient temperature for operating	-40°C
Min. temperature for installing without preheating	+0°C
Max. short-circuit operation temperature of conductor (5s Max. duration)	250°C
Min. bending radius	During installation: 30D After installation: 29D. D is the diameter over the polyamide layer
Standard	IEC 60228 / TEC 60502-2/8

Application:

This type low-voltage power cable is suitable for solar power systems, industrial and mining enterprises, and municipal projects. It is ideal for indoor, outdoor, conduit, or direct burial installations, offering excellent heat resistance, abrasion resistance, UV resistance, and chemical corrosion resistance, and is widely used in applications requiring high cable reliability.

Structural Parameters:

Nomina conductor area mm ²	Nominal thickness of insulation mm	Nominal thickness of outer sheath mm	Approx. overall diameter of cable mm	Approx. mass of cable kg/km	Max. DC resistance of conductor at 20°C Ω/km
50	1.0	1.4	16.3	231	0.641
70	1.1	1.4	18.2	308	0.443
95	1.1	1.5	19.8	393	0.320
120	1.2	1.5	21.5	480	0.253
150	1.4	1.6	23.6	587	0.206
185	1.6	1.6	25.6	718	0.164
240	1.7	1.7	28.4	914	0.125
300	1.8	1.8	31.0	1118	0.100
400	2.0	1.9	34.4	1411	0.0778
500	2.2	2.0	37.8	1776	0.0605
630	2.4	2.2	42.2	2260	0.0469
800	2.6	2.3	47.0	2839	0.0367

Current Ratings:

Nominal conductor area	Continuous current-carrying capacity, A											
	In air					In ground			In underground ducts			
												
mm²	Solid bond	Solid bond	Solid bond	Solid bond	Solid bond	Solid bond	Solid bond	Solid bond	Solid bond	Solid bond	Solid bond	Solid bond
50	175	196	164	171	125	161	164	159	146	149	145	135
70	216	244	201	214	159	199	199	194	179	179	175	169
95	261	291	245	259	189	234	234	231	209	206	209	200
120	299	333	280	295	215	264	261	261	238	234	236	229
150	336	374	316	335	240	294	290	294	264	258	264	254
185	384	423	361	381	271	330	324	330	294	285	295	286
240	449	490	425	450	315	379	365	381	334	320	340	330
300	509	553	484	514	356	420	404	429	370	353	380	370
400	584	629	560	595	425	475	449	488	414	389	430	438
500	673	714	650	690	486	534	498	554	463	429	485	496
630	764	803	749	795	554	594	545	625	508	464	540	560
800	863	897	855	910	624	654	593	699	558	503	603	625