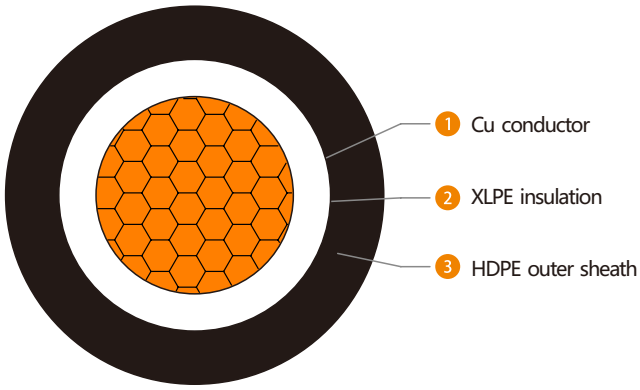
1500V DC Sub-array Cables Cu/XLPE/HDPE



Properties:

Rated Voltage	1500V DC
Max. operating temperature of conductor	90℃
Min. ambient temperature for operating	-40℃
Min. temperature for installing without preheating	+0℃
Max. short-circuit operation temperature of conductor (5s Max. duration)	250℃
Min. bending radius	During installation: 9D After installation: 6D. D is outer diameter of cable
Standard	AS/NZS 5000.1

Application:

The low voltage DC power cable is applied to the connection of the collector box in the Photovoltaic system to the DC lightning protection distribution cabinet and the DC lightning protection distribution cabinet to the grid connected inverter. Low voltage DC power cable is applied to connect DC lightning protection switchboard and step-up transformer in photovoltaic system.

Structural Parameters:

Nominal conductor area	Nominal thickness of insulation	Nominal thickness of outer sheath	Approx. overall diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20℃
mm^2	mm	mm	mm	kg/km	Ω/km
1.5	0.7	1.4	7.9	38	12.1
2.5	0.7	1.4	8.4	50	7.41
4	0.7	1.4	8.9	66	4.61
6	0.7	1.4	9.5	87	3.08
10	0.7	1.4	10.2	129	1.83
16	0.7	1.4	11.2	187	1.15
25	0.9	1.4	12.8	281	0.727
35	0.9	1.4	13.8	373	0.524
50	1.0	1.4	15.1	494	0.387
70	1.1	1.4	17.1	695	0.268
95	1.1	1.5	18.9	941	0.193
120	1.2	1.5	20.5	1174	0.153
150	1.4	1.6	22.6	1449	0.124
185	1.6	1.7	24.9	1801	0.0991
240	1.7	1.8	27.6	2345	0.0754
300	1.8	1.8	30.0	2924	0.0601
400	2.0	2.0	33.6	3723	0.0470
500	2.2	2.1	37.0	4752	0.0366
630	2.4	2.2	41.2	6123	0.0283
800	2.6	2.3	46.0	7801	0.0221