



DC 1500V



100m~6000m



Low Smoke Zero Halogen



Excellent Chemical & Oil resistance



-40 °C ~ +90 °C



UV Resistance



IEC62930/EN50618



Specification

Application	Internal wiring for solar panel and photovoltaic system
Approval	IEC62930/EN50618
Rating voltage	DC1500V
Test voltage	AC 6.5KV,50Hz 5min
Working temperature	-40~+90°C
Max Conduct temperature	120°C
Short circuit temperature	250C 5S
Bending radius	6xD
Life Period	≥25 years

Structure

Cross Section (mm ²)	Construction (No./mm±0.01)	DIA.(mm)	Insulation Thickness(mm)	Jacket Thickness(mm)	Cable OD. (mm±0.2)
1×4	56/0.285	2.60	0.70	0.80	5.80
1×6	84/0.285	3.20	0.70	0.80	6.50
1×10	146/0.285	3.80	0.80	0.80	7.30

Electrical Data

Cross Section (mm ²)	Conductor Max. Resistance @20°C (Ω/km)	Insulation Min. Resistance @20°C (MΩ·km)	Insulation Min. Resistance @ 90°C (MΩ·km)	Current Carrying Capacity (A)
1×4	5.09	709	0.709	55
1×6	3.39	610	0.610	70
1×10	1.95	489	0.489	98

Properties

(20°C) Insulation resistance @20°C	≥ 709 MΩ·Km
(90°C) Insulation resistance @90°C	≥ 0.709 MΩ·Km
Surface resistance of sheath	≥10 ⁹ Ω
Voltage test of finished cable	AC 6.5KV 5min, No break
DC Voltage test of insulation	900V, 240h(85°C 3%NaCl) No break
Tensile strength of insulation	≥10.3Mpa
Tensile strength of sheath	≥10.3Mpa
elongation of sheath	≥125%
Shrinkage resistant	≤2%
Acid and alkali resistant	EN60811-404
Ozone resistant	EN60811-403/EN50396-8.1.3
UV resistant	EN 50289-4-17
Dynamic penetrate force	EN 50618
(-40°C, 16h) Winding at low temperature	EN 60811-504
(-40°C, 16h) Impact at low temperature	EN 60811-506
Fire performance	IEC60332-1-2 & UL VW-1
Cland Br Content	EN 50618
Thermal endurance Test	EN60216-1,EN60216-2, TI120