

NEOCAB[®]-PV
SOLAR CABLE
Wire the Sun



 **RoHS CE**



NEOCAB®-PV SOLAR CABLE

NEOCAB® one of the most trusted brands in cable and conductors, was created with an aim to cater high-quality premium cable products to the market. Through times we catered products that required high-end INNOVATION and RESEARCH.

NEOCAB®-PV's SOLAR Cables are a step towards creation of environment friendly cables for development of ELECTRICITY thru SOLAR-POWER. NEOCAB®-PV is our effort to take part in ENERGY CONSERVATION. Our Range of PV-CABLES (also known as SOLAR CABLES) are more ADAPTIVE, more ROBUST, RUGGED and more VERSATILE than ever before. These cables are made in compliance with international standards such as RoHS and CE certified.



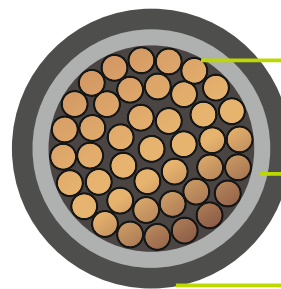
NEOCAB®-PV SOLAR-CABLE 4.0sq.mm XL-OH FRLS CE RoHS 1000meter

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NEOCAB®-PV SOLAR CABLE

NEOCAB®-PV Solar cables are exclusively made for applications in photovoltaic power systems. . A solar cable interconnects solar panels and other electrical components of a photovoltaic system. These Solar cables are designed to be UV & Ozone resistant, Chemical and oil resistant, with excellent FR properties, propagates smoke with low opacity when forced burned with external source and contains absolutely ZERO or Low halogen. This cable can survive extreme weather conditions. It can be used within a large temperature range and are generally laid outside. These cables can be installed at indoor, outdoor, in hazard areas, in explosion areas, in industry and in agriculture.

Construction Characteristics



FLEXIBLE ANNEALED
TINE BUNCHED
COPPER CONDUCTOR

CROSS- LINKED
THERMOSET
INSULATION

HR - FR- LOW
SMOKE- LOW HALOGEN
ROHS COMPLYING
OUTER SHEATH

NEOCAB[®]-PV CABLE RANGE

Solar cables generally not installed in places where its directly exposed to sunlight, however throughout the day time they are continuously exposed to diffused or indirect sunlight. Moreover they may need to face extreme weather conditions and harsh handling. Considering these conditions we have developed certain range of Solar cables which can be used according to prevalent conditions of installation site. We also develop tailor made solar cables as per customer's requirements.

TYPES OF CONDUCTOR AVAILABLE-

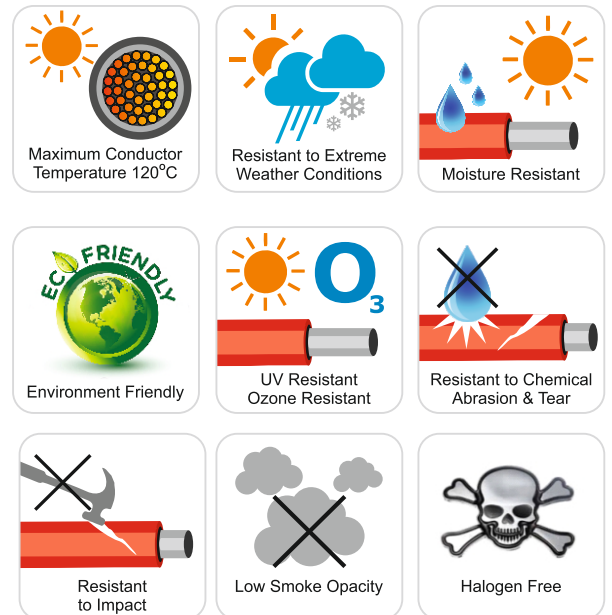
1. Annealed Bunched Flexible Copper conductor with ETP Copper with 99.97% purity and 101% conductivity
2. Tinned copper bunched flexible conductor with ETP Copper with 99.97% purity and 101% conductivity

TYPE OF INSULATIONS AVAILABLE

1. Double insulated Cross-linkable Fire Retardant Low smoke zero halogen with conductor temperature rating 120° C
2. Double Insulated Flexible insulation with Fire Retardant Low smoke Low halogen- conductor Temperature Rating 105° C
3. Double Insulated :
 - a. First layer Cross Linkable Thermo-set Polymer with Conductor Temperature Rating 90° C
 - b. Second Layer UV Stabilized FRLS-H Sheath

BEHAVIOUR IN CASE OF FIRE

- Single cable according to DIN VDE 0482 Part 332-1-2, DIN EN 60332-1-2
- Multiple cable according to DIN VDE 0482 Part 266-2-1, DIN EN 50305-9
- Low smoke emission according to DIN VDE 0482 Part 268-1& 2,
- DIN EN 61034 & DIN EN 50268-2 (light transmittance <70%)
- Corrosively according to DIN EN 50267-2-2
- Toxicity according to DIN EN 50305



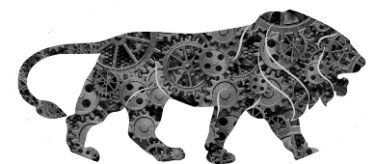
XLPE Insulated and 90° C HRFRLS-H sheathed Solar Cable Dimensions and Amperage

Solar DC Cables from PV Module to Array Junction Box as per is 7098 part 1 guidelines					
Single Core Size in Sq.mm	Max. Conductor Diameter in mm	XLPE Insulation Thickness-Nominal in mm	90° C HR FRLS-H Insulation Thickness-Nominal in mm	Overall Dia. Nominal in mm	Ampere Rating 2-Adjacent Cable on Surface
1.5	0.26	0.7	0.9	5.0 +/-0.5	20
2.5	0.26	0.7	0.9	5.5 +/-0.5	28
4	0.31	0.7	0.9	6.0 +/-0.5	36
6	0.31	0.7	0.9	6.5 +/-0.5	46
Solar DC Cables from Array Junction Box to Main Junction Box & MJB to Inverter as per is 7098 part 1 guidelines					
10	0.41	0.7	0.9	7.5 +/-0.5	64
16	0.41	0.7	0.9	8.5 +/-0.5	85
25	0.41	0.9	1	10.5 +/-0.7	108
35	0.41	0.9	1.1	12.0 +/-0.7	138
50	0.41	1	1.2	14.0 +/-0.7	181
70	0.51	1.1	1.3	16.0 +/-1.0	269
95	0.51	1.1	1.5	18.5 +/-1.0	325
120	0.51	1.2	1.6	20.0 +/-1.0	381
150	0.51	1.4	1.7	22.5 +/-1.0	444
185	0.51	1.6	1.9	25.0 +/-1.0	519
240	0.51	1.7	2.1	28.0 +/-1.0	625

REQUIRED FEATURES OF SOLAR CABLE

- Chemical Features**
- Weather resistant
 - Resistant to mineral oils
 - Resistant to acids & alkaline
- Thermal Features**
- Maximum conductor temperature of operation-120° C during 20000 hours
 - Minimum operating temperature: - 40° C
 - Generally conforming to TUV
- Electrical Features**
- Voltage rating :
 - 1.5 (1.8) KV DC / 0.6/1.0 (1.2) KV AC
 - High voltage test: 6.5 KV DC for 5 minutes.
- Mechanical Features**
- Resistant to Impact , tear & abrasion
 - Minimum bending radius – 4 times of overall diameter.
 - Safe pulling force -50 N/sqmm.

Manufactured by
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