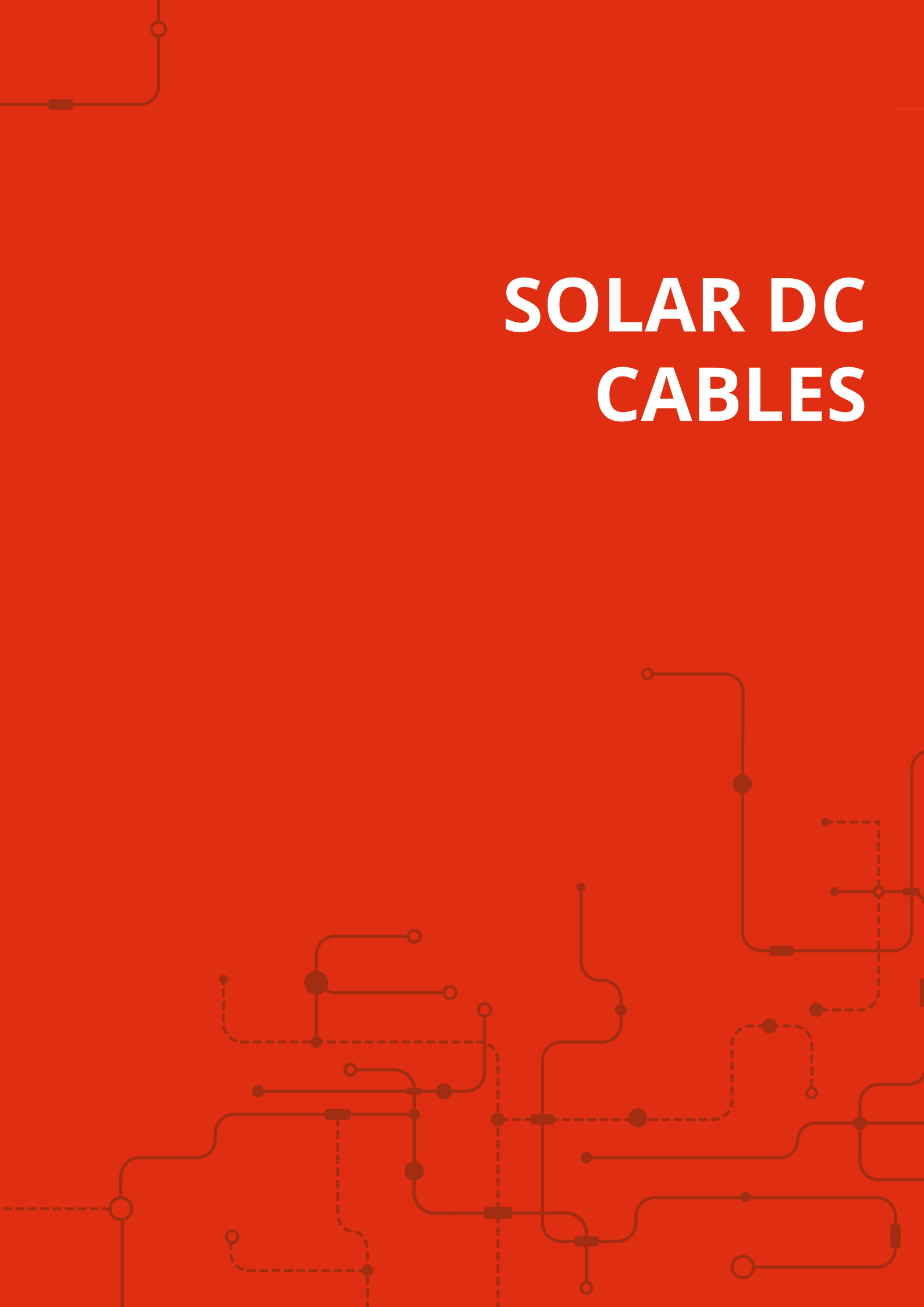


SOLAR DC CABLES

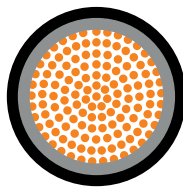


SOLAR DC CABLE

TYPE 2 (IS:694 & IS:1554 PART 1 GUIDELINES)

Single Core, HR 105°C PVC Insulation, UV Stabilized HR 105°C PVC Sheath 105°C (1.5 KV DC / 1.0 KV AC)

APPLICATION : These cables are designed for connecting photovoltaic power supply system, These cables can be used indoor & outdoor for flexible and fixed installations with high mechanical strength in extreme weather conditions.

| Construction | |  |
|----------------------------|---|---|
| Conductor | Flexible Plain Annealed Bare Copper / Flexible Annealed Tinned Copper | |
| Insulation | HR105°C PVC | |
| Outer sheath | at least 1 UV Stabilized HR105°C PVC | |
| Colour code | Red / Black / As per requirement. | |
| Characteristics | | Type 2 |
| Voltage Rating (Uo/U) | : AC: 600/1000 V. DC: 900/1800 V. | TYPE 2 : DC Solar cable are single core copper cables each for +ve and -ve, They are insulated with HR 105° C PVC compound and sheathed with UV Stabilized HR 105°C PVC Compound (Generally conforming to IS:694 and IS:1554 Part 1 Guidelines) |
| Temperature Rating - Fixed | : -40°C to +105°C | |
| Minimum Bending Radius | : 4 X Overall Diameter 5 X Overall Diameter | |
| Maximum Voltage (Umax) | : 1.8 KV DC (conductor/conductor, non earthed system, circuit not under load) | |

SOLAR DC CABLES FROM PV MODULE TO ARRAY JUNCTION BOX (AS PER IS 694 & IS 1554 PART I GUIDELINES)

| Single Core Size in Sq.mm | Max. Conductor Diameter in mm | HR 105°C PVC Insulation Thickness-Nominal in mm | UV HR 105°C PVC Sheathing Thickness-Nominal in mm | Overall Dia. Nominal in mm Approx. |
|---------------------------|-------------------------------|---|---|------------------------------------|
| 1.5 | 0.26 | 0.6 | 0.9 | 4.5 |
| 2.5 | 0.26 | 0.7 | 0.9 | 5.2 |
| 4 | 0.31 | 0.8 | 0.9 | 6.0 |
| 6 | 0.31 | 0.8 | 0.9 | 6.5 |
| 10 | 0.41 | 1.0 | 0.9 | 8.0 |
| 16 | 0.41 | 1.0 | 0.9 | 9.0 |
| 25 | 0.41 | 1.2 | 1.0 | 10.5 |
| 35 | 0.41 | 1.2 | 1.1 | 12.0 |
| 50 | 0.41 | 1.4 | 1.3 | 14.0 |
| 70 | 0.51 | 1.4 | 1.4 | 16.0 |
| 95 | 0.51 | 1.6 | 1.5 | 18.5 |
| 120 | 0.51 | 1.6 | 1.6 | 20.0 |
| 150 | 0.51 | 1.8 | 1.8 | 23.0 |
| 185 | 0.51 | 2.0 | 1.9 | 25.0 |
| 240 | 0.51 | 2.2 | 2.2 | 28.0 |

SOLAR DC CABLES FROM JUNCTION BOX TO INVERTER AS PER IS 694 & IS 1554 PART I GUIDELINES

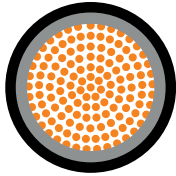
| Single Core Size in Sq.mm | Bare Copper Maximum Resistance @20°C Ohms-?/Km | Current Carrying Capacity of DC Solar Cable with HR 105°C PVC Insulation and UV Stabilised HR 105°C PVC Sheathing at 40°C | | |
|---------------------------|--|---|-------------------------|------------------------------|
| | | Single Cable in Air | Single Cable on Surface | 2 Adjacent Cables on Surface |
| | | in Amps-A | in Amps-A | in Amps-A |
| 1.5 | 13.3 | 28 | 26 | 22 |
| 2.5 | 7.98 | 38 | 36 | 31 |
| 4 | 4.95 | 50 | 48 | 40 |
| 6 | 3.30 | 62 | 60 | 50 |
| 10 | 1.910 | 87 | 82 | 71 |
| 16 | 1.210 | 115 | 110 | 95 |
| 25 | 0.780 | 150 | 143 | 120 |
| 35 | 0.554 | 191 | 182 | 153 |
| 50 | 0.386 | 253 | 240 | 202 |
| 70 | 0.272 | 374 | 355 | 299 |
| 95 | 0.206 | 451 | 429 | 361 |
| 120 | 0.161 | 530 | 504 | 424 |
| 150 | 0.129 | 618 | 587 | 494 |
| 185 | 0.106 | 721 | 685 | 577 |
| 240 | 0.0801 | 869 | 825 | 695 |

SOLAR DC CABLE

TYPE 3 (IS:7098 PART 1 GUIDELINES)

Single Core, XLPE Insulation, UV Stabilized ST-2 PVC Sheath 90°C (1.5 KV DC / 1.0 KV AC)

APPLICATION : These cables are designed for connecting photovoltaic power supply system, These cables can be used indoor & outdoor for flexible and fixed installations with high mechanical strength in extreme weather conditions.

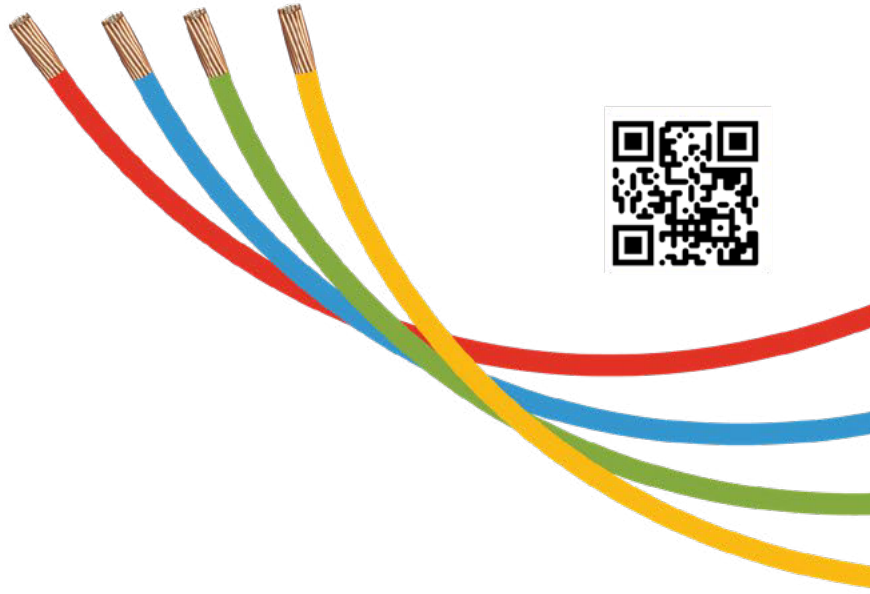
| Construction | |  |
|-----------------------------------|---|---|
| Conductor <i>Copper</i> | Flexible Plain Annealed Bare Copper / Flexible Annealed Tinned Copper | |
| Insulation | XLPE | |
| Outer sheath | UV Stabilized ST-2 PVC | |
| Colour code | Red / Black / As per requirement. | |
| Characteristics | | Type 2 |
| Voltage Rating (Uo/U) | : AC: 600/1000 V. DC: 900/1800 V. | TYPE 2 : DC Solar cable are single core copper cables each for +ve and -ve, They are insulated with XLPE compound and sheathed with UV Stabilized PVC ST2 Compound(generally conforming to IS:7098 Part 1 Guidelines) |
| Temperature Rating - Fixed | : -30°C to 90°C | |
| Minimum Bending Radius | : 4 X Overall Diameter 5 X Overall Diameter | |
| Maximum Voltage (Umax) | : 1.8 KV DC (conductor/conductor, non earthed system, circuit not under load) | |

SOLAR DC CABLES FROM PV MODULE TO ARRAY JUNCTION BOX (AS PER IS:7098 PART I GUIDELINE)

| Single Core Size in Sq.mm | Max. Conductor Diameter in mm | HR 105°C PVC Insulation Thickness-Nominal in mm | UV HR 105°C PVC Sheathing Thickness-Nominal in mm | Overall Dia. Nominal in mm Approx. |
|---------------------------|-------------------------------|---|---|------------------------------------|
| 1.5 | 0.26 | 0.7 | 0.9 | 5.0 |
| 2.5 | 0.26 | 0.7 | 0.9 | 5.5 |
| 4 | 0.31 | 0.7 | 0.9 | 6.0 |
| 6 | 0.31 | 0.7 | 0.9 | 6.5 |
| 10 | 0.41 | 0.7 | 0.9 | 7.0 |
| 16 | 0.41 | 0.7 | 0.9 | 8.5 |
| 25 | 0.41 | 0.9 | 1.0 | 10.0 |
| 35 | 0.41 | 0.9 | 1.1 | 11.5 |
| 50 | 0.41 | 1.0 | 1.2 | 13.0 |
| 70 | 0.51 | 1.1 | 1.3 | 15.5 |
| 95 | 0.51 | 1.1 | 1.5 | 17.5 |
| 120 | 0.51 | 1.2 | 1.6 | 19.5 |
| 150 | 0.51 | 1.4 | 1.7 | 21.5 |
| 185 | 0.51 | 1.6 | 1.9 | 24.0 |
| 240 | 0.51 | 1.7 | 2.1 | 27.0 |

SOLAR DC CABLES FROM JUNCTION BOX TO INVERTER (AS PER IS:7098 PART I GUIDELINE)

| Single Core Size in Sq.mm | Bare Copper Maximum Resistance @20°C Ohms-?/Km | Current Carrying Capacity of DC Solar Cable with HR 105°C PVC Insulation and UV Stabilised HR 105°C PVC Sheathing at 40°C | | |
|---------------------------|--|---|-----------------------------------|--|
| | | Single Cable in Air in Amps-A | Single Cable on Surface in Amps-A | 2 Adjacent Cables on Surface in Amps-A |
| 1.5 | 13.3 | 25 | 24 | 20 |
| 2.5 | 7.98 | 35 | 33 | 28 |
| 4 | 4.95 | 45 | 43 | 36 |
| 6 | 3.30 | 58 | 55 | 46 |
| 10 | 1.910 | 80 | 76 | 64 |
| 16 | 1.210 | 106 | 101 | 85 |
| 25 | 0.780 | 135 | 128 | 108 |
| 35 | 0.554 | 173 | 164 | 138 |
| 50 | 0.386 | 226 | 215 | 181 |
| 70 | 0.272 | 336 | 319 | 269 |
| 95 | 0.206 | 406 | 386 | 325 |
| 120 | 0.161 | 476 | 452 | 381 |
| 150 | 0.129 | 555 | 527 | 444 |
| 185 | 0.106 | 649 | 616 | 519 |
| 240 | 0.0801 | 781 | 742 | 625 |



Office

ADCAB, 303 Kaling Complex, Bh. Bata
Show Room Ashram Road, Ahmedabad,
Gujarat, India

Phone

+91 9978984274

Email

ronak.mistry@adcab.in

Factory

ADCAB, D-2, Sector 12, Heavy Industrial
Area, GIDC, Gandhidham (Kutch),
Gujarat, India

Phone

+91 2836 253489

Email

info@adcab.in

Godown

ADCAB, Plot no. - 5 Sector - 3 Akshar
Industrial Park, Opp. Zydus, Changodar,
Ahmedabad, Gujarat - 382213

Website

www.adcab.in