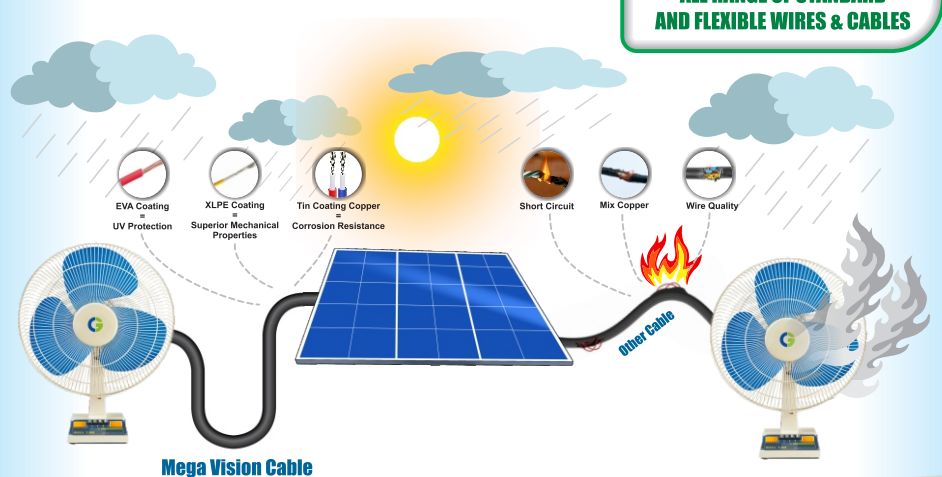




MEGA VISION CABLES™
Your Safety is our Top Priority

Solar Cables
SOLARFLEX-X-PV1-F

**99.9% COPPER &
BEST QUALITY INSULATION
ALL RANGE OF STANDARD
AND FLEXIBLE WIRES & CABLES**





MEGA VISION CABLES™
Your Safety is our Top Priority

MEGA VISION SOLARFLEX-X-PV1-F

Single core power cable, for photovoltaic and solar system use, insulated and sheathed with cross-linked polyolefin compound. Flame retardant, halogen free, low smoke, UV & Ozone resistant flexible cable for fixed laying.

THERMAL CHARACTERISTICS

- Operating Temperature: Normal: 90°C
Maximum: 120°C
- Expected Life Time: 25 years (For 20,000 h)
- Max. Short Circuit Temp: 250°C for 5 Sec

STANDARDS

BS EN 50618: 2015, 2 PFG
1169/08.2007, IEC 60228
BS 6360, BS EN 62230, BS EN
50363-5, BS EN 60811-401 BS EN
60811-403, BS EN 60811-404, BS EN
60811-501
BS EN 60811-503, BS EN 60811-504,
BS EN 60811-505
BS EN 60811-506, BS EN 60811-507,
BS EN 60811-508
BS EN 60216-1-1, BS EN 50395, BS
EN 50396, IEC 61034 IEC 60332-1-2,

ELECTRICAL CHARACTERISTICS

- Rated Voltage: Normal: 1500V DC
Maximum: 1800V DC

CONSTRUCTION

- Conductor: Tinned Coated Flexible Copper, Class 5 according to IEC 60228
- Insulation: Cross Linked Polyolefin Compound
- Sheath: Cross Linked Polyolefin Compound

Cross Sectional Area of Conductor (mm ²)	Insulation Thickness Nominal (mm)	Sheath Thickness Nominal (mm)	Overall Diameter Approx (mm)	DC Resistance of Conductor at 20°C (Ω/KM)	Insulation Resistance at 20°C (MΩ. KM)	Insulation Resistance at 90°C (MΩ. KM)
1.5	0.7	0.8	5.4	13.7	860	0.86
2.5	0.7	0.8	5.9	8.21	720	0.72
4	0.7	0.8	6.6	5.09	580	0.58
6	0.7	0.8	7.4	3.39	500	0.5
10	0.7	0.9	8.8	1.95	420	0.42
16	0.7	0.9	10.1	1.24	340	0.34
25	0.9	1	12.5	0.795	340	0.34
35	0.9	1.1	14	0.565	290	0.29
50	1	1.2	16.3	0.393	270	0.27
70	1.1	1.2	18.7	0.277	250	0.25
95	1.1	1.3	20.8	0.214	220	0.22
120	1.2	1.3	22.8	0.164	220	0.22
150	1.4	1.4	25.5	0.132	210	0.21
185	1.6	1.6	28.5	0.108	200	0.2
240	1.7	1.7	32.1	0.0817	200	0.2

- DC Resistance is in accordance with IEC 60228
- Dimension & Insulation Resistance is in accordance with BS EN 50618:2015
- Expected Lifetime is for normal usage conditions

CURRENT CARRYING CAPACITY

CURRENT CARRYING CAPACITY ACCORDING TO METHOD OF INSTALLATION

Cross Sectional Area of Conductor (mm ²)	Single Cable Free in Air (A)	Single Cable on a Surface (A)	Two Loaded Cables Touching on a Surface (A)
1.5	30	29	23
2.5	41	39	34
4	55	53	45
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176
50	276	262	222
70	347	330	278
95	416	395	333
120	468	445	377
150	518	493	417
185	564	538	453
240	775	736	620

Ambient temperature: 60°C. For other temperature see below table.

DE - RATING FACTOR

Air Temperature	Up to 60°C	70°C	80°C	90°C
De-Rating Factor	1	0.92	0.84	0.75

TRANSMITTING
SUN'S ENERGY
THROUGH

MEGA VISION

SOLAR CABLES

SOLARFLEX-X-PV1-F





MEGA VISION CABLES™

Your Safety is our Top Priority



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