



CABLES

FastGreen

SOLAR CABLES



GREEN TECHNOLOGY DEVELOPS A BALANCE BETWEEN INDUSTRY AND ECOLOGICAL AWARENESS



To meet an ever-growing needs for power, the world is increasingly turning toward renewable and sustainable sources of energy. In response to this demand, Fast Cables' vision is to create sustainable connections in technological harmony with natural resources.

Scarcity of natural resources and increasing burden on the environment are awakening calls for society. In line with Fast Cables' vision, we commit to both innovation and sustainability, we offer premium quality solar and photovoltaic products, renowned in the field for their long-lasting and trouble-free attributes. While using environment friendly technologies, our goal is to provide most innovative and efficient cables. Here, it is of vital interest for us to detect the needs and requirements of tomorrow and supply the markets with sustainable, future-proof solutions.

Green technology products are sustainable, energy efficient and low in toxicity. We constantly work to optimize and catalyze the efficiency of our manufacturing process by deploying energy-efficient machines. Our production units are ISO 14001 certified and comply with international quality parameters.

Modern technologies are measured in terms of higher efficiency, increased product life, emission reduction and conservation of natural resources. Our focus on innovative cables products, extensive research and development, and superior quality offerings add value to our customers and business partners.

CHARACTERISTICS OF PHOTOVOLTAIC CABLES



PHOTOVOLTAIC CABLES

Whether it is an off-grid application or an on-grid connected PV-System, our cables meet the same high expectations that are demanded from the valuable customers, **i.e long service life and high weather/UV resistance.**

Our double insulated, XLPO cables meet the highest standard of quality and certified by TUV Austria Bureau of Inspection & Certification. These solar cables can be used unrestrictedly in the most important photovoltaic markets of Asia & the Middle East as a module or connecting cable.

ADVANTAGES

- BS EN 50618 & BS EN 60228 compliance
- XLPO compounds
- UV, Weather resistant
- High temperature resistance up to 120°C for 20,000 hours maximum so they do not melt or flow
- Long service life and good cold flexibility
- Compatible with latest technologies



HALOGEN FREE FLAME RETARDANT



Applications

- Double insulated, XLPO cables for photovoltaic power applications

Construction

- Conductor Tinned fine copper strands acc. to IEC 60228, Class 5
- Insulation XLPO, flame retardant, halogen free
- Jacket XLPO, flame retardant, halogen free, UV and weather resistant
- Jacket colour Black

Electrical Characteristics

Rated Value **1500 V DC**
(max. permitted voltage 1800 V DC)

Thermal Characteristics

Operating Temperature -40 °C up to +120 °C for 20000 hours maximum

Ambient Temperature -40 °C up to +90 °C

Bending Radius

For fixed installation > 4 × D
Occasionally moved > 6 × D

Standards / Material Properties

- Fire Performance: IEC 60332-1
- Smoke Emission: IEC 61034; EN 61034-2
- Compliance Standards: EN 50395, EN 50396, BS EN 50618



PHOTOVOLTAIC WIRE

Single Core Photovoltaic Wire



Application

- XLPO/XLPO single core PV cable meets the varying needs of the Solar Industry. Applications include connection to module junction boxes.

Construction

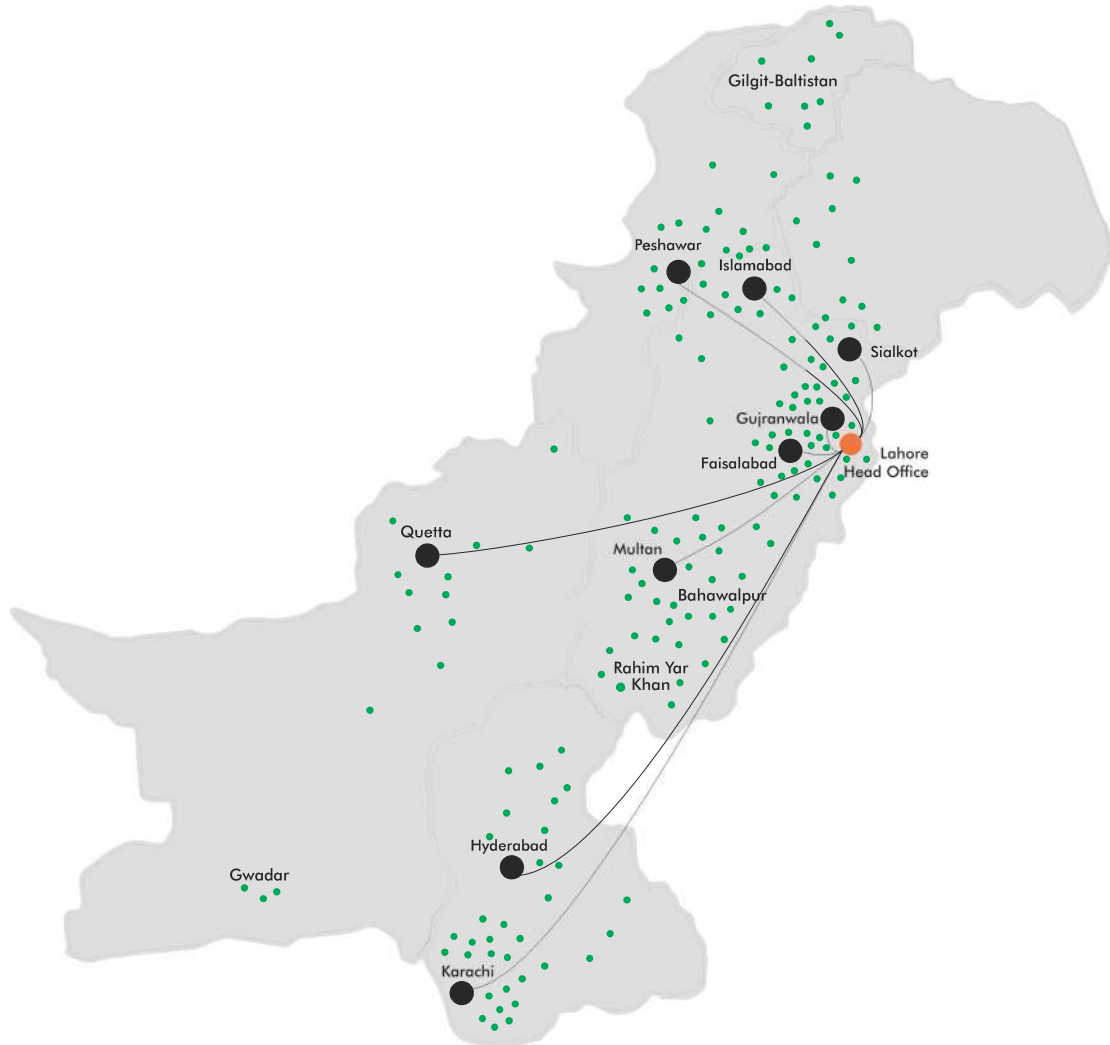
- Conductor: Fully annealed flexible stranded tinned copper, Class 5 as per IEC 60228
- Insulation/Jacket (sheath): Low-Smoke, Zero-Halogen Cross-Linked Polyolefin

Technical Data

- Rated Voltage: DC 1500 V
- Temperature Rating: -40°C to +90°C
- Bending Radius: 6 x D

Nominal Cross Sectional Area of Conductor (mm ²)	Mean Overall Diameter Sheathed Upper Limit Informative Value (mm)	Metal Coated Flexible Conductor Resistance Ω /Km Maximum at 20°C	Minimum Insulation Resistance at 20°C M Ω .Km	Minimum Insulation Resistance at 90°C M Ω .Km	Short Circuit Current Rating (KA) for 1 sec	PV Single Cable Current Rating in Air at 60°C (Amp)
1x1.5	5.4	13.7	860	0.86	0.21	30
1x2.5	5.9	8.21	690	0.69	0.36	41
1x4	6.6	5.09	580	0.58	0.57	55
1x6	7.4	3.39	500	0.5	0.86	70
1x10	8.8	1.95	420	0.42	1.43	98
1x16	10.1	1.24	340	0.34	2.29	132
1x25	12.5	0.795	340	0.34	3.58	176
1x35	14	0.565	290	0.29	5.01	218

Branch Network



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