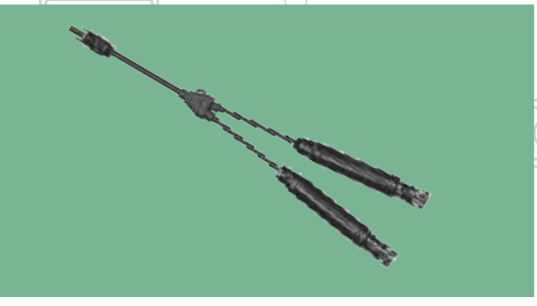
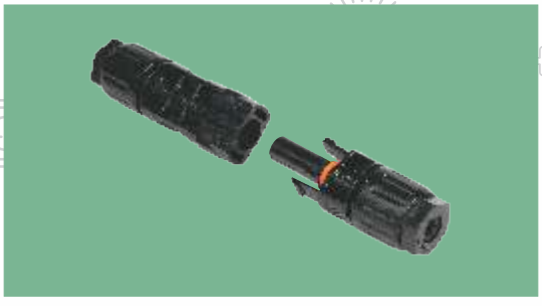
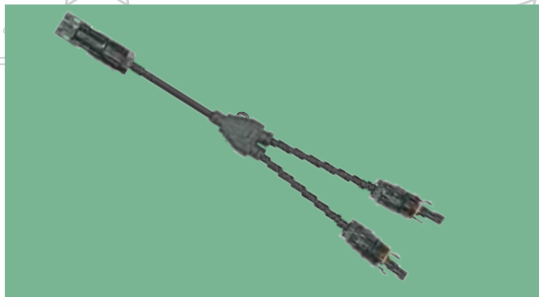
elmex®

since 1963







Solutions for Solar Photovoltaic

www.elmex.net

since 1963

'elmex' was established in 1963 and is a pioneer and leader in the field of Wire Termination Technology in India. *'elmex'* is having manufacturing facilities in Vadodara, Gujarat, certified as per ISO 9001:2015 and ISO 14001:2015. It has extended its domain knowledge in Termination Technology to develop product range suitable for Photovoltaic applications with indigenous design and development.

Converging Innovations Expanding Solutions

As an application *'elmex'* provides wide range of PV products such as PV Straight Connectors, Panel Connectors, Y- type Over Moulded Wire Harnesses, Inline Fuse Connectors, Y- type Wire Harnesses with Inline fuse Connectors , DC Fuse Terminal Blocks (for DC Distribution Box) and PV Junction Boxes (2-Rail) and PV Solar Split Junction box which are used for termination and to transfer DC energy from PV module to final output.

'elmex' PV product range conforms to International standards like IEC 62852-2014 for Connectors, UL 4248 for Fuse Terminals, IEC 60269-6 for 1000V DC Fuse Links and UL 248-1, UL 248-19 extended up to UL 2579 1500 V DC Fuse link.

'elmex' PV products have found application in various Solar power projects, totaling more than 20GW of installation in roof top as well as ground mounted projects.

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MADE IN INDIA

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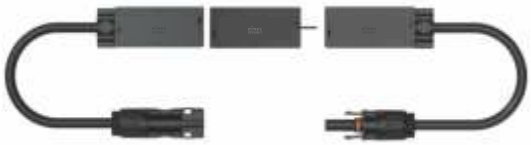
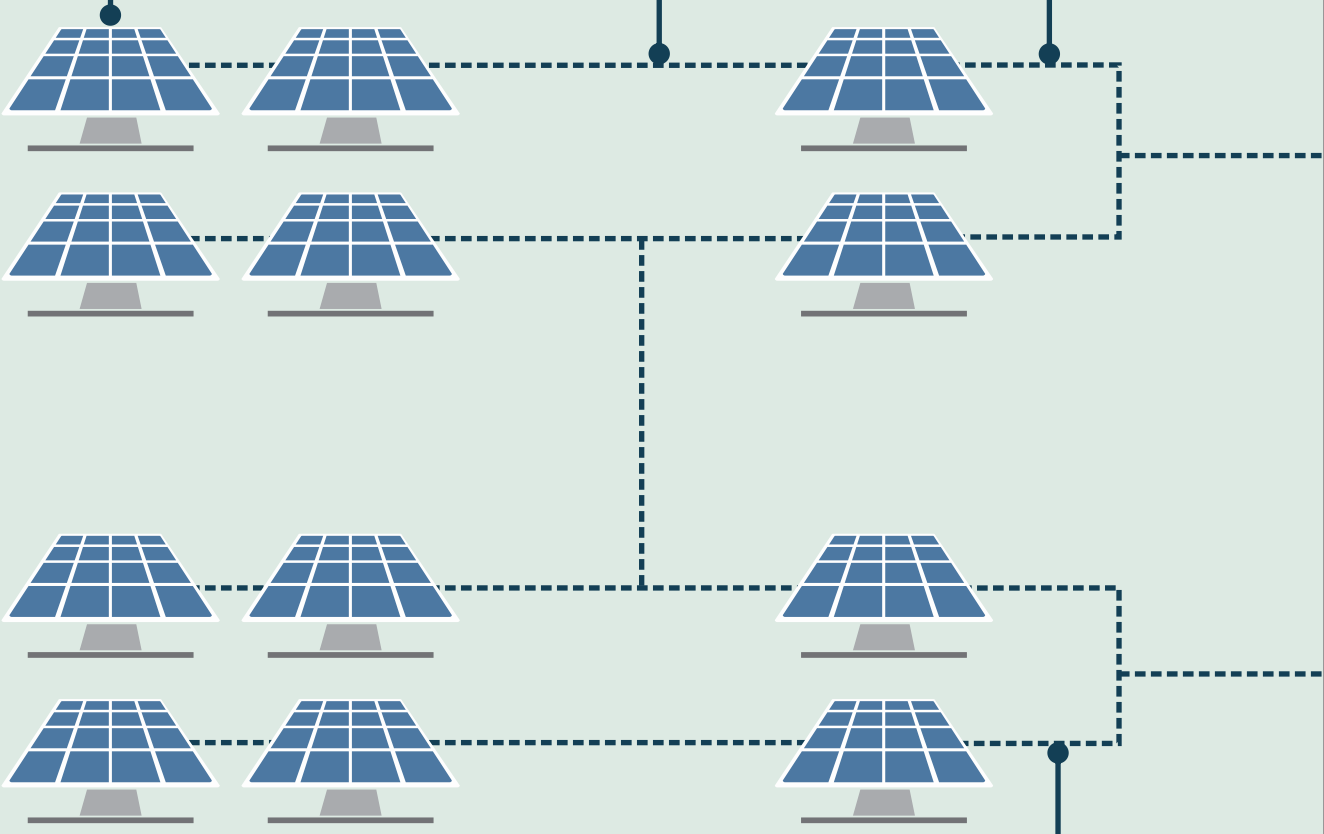
'elmex' Schematic Diagram



Split Type Junction Box

EMPV4N / EMPV10N

Straight Connector



Wire Harness with Fuse 1500V

'Y - Type' Male Harness 'Y - Type' Female Harness

Fuse Terminal Blocks

EPVFH1000NV

EPVFH1500-LGREY

'Y-Type' Male Harness

'Y-Type' Female Harness

Wire Harness without Fuse 1500V

Terminal Block

Current Transformer

DCDB/Array Junction Box

Inverter

Residential / Industrial Load

SPD

SPPV3 T2 - 1000

SPPV3 T2 - 1000

DC MCB

MCD16C2

MCD63C4

Panel Connector

EMPVPCM4N

EMPVPCF4N

'elmex' PV Solar Product Solutions

Solutions For EPC / Rooftop/ Project Developers

- PV Straight Connectors (1500V) 54A & 70A
- PV Branch Connectors (1500V) 54A
- PV Straight Inline Fuse Connectors (1500V / 1000V)
- Over Moulded Inline Fuse Connector (1500V)
- Over Moulded Wire Harnesses (1500V / 1000V)

Solutions For System Integrators / Inverters

- PV Panel Connectors (1500V)
- PV Fuse Terminal Blocks (1500V / 1000V)
- Terminal Blocks
- DC MCB

Solutions For PV Panels/ Module Manufacturers

- PV Solar - 2 Rail Junction Box
- PV Solar - Split Junction Box

'elmex' PV Solar Straight Connectors

'elmex' PV Solar Straight connectors **EMPV4N** and **EMPV10N** with plug and socket design are constructed using flame retardant engineering thermoplastic suitable for exposure to UV rays and for application in PV power generation system. These connectors incorporate a flexible water tight sealing conforming to IP 68 and are supplied as 'male (plug)' and 'female (socket)' types to minimize the chance of wrong connections. For proper assembly of individual male and female connectors and for proper functioning of the mated pair, it is necessary that solar cables used are TUV certified as per standard EN 50618/IEC 62930. 'elmex' straight connectors are certified for PV solar cables **2.5, 4.0, 6.0 and 10.0 mm²** size, double insulated (Insulation plus black sheath) & UV protection.

with NEC Interlock*

R60126561

EMPV4N

with NEC Interlock*

EMPV10N

Features

- TUV Certified
- Snap Fit Locking Arrangement
- IP 68 Protection when mated
- Low Contact Resistance
- Provides UV Protection (Tested for 500 hrs as per ISO 4892-2)
- Tested as per International Standards / IEC 62852

Description	Specifications
Rated Voltage	1500V DC
Rated Current	**EMPV4N :** 25A (2.5 mm^2), 45A (4 mm^2), 54A (6 mm^2) **EMPV10N :** 70A (10mm^2)
RMS Test Voltage	8 kV
Impulse withstand Voltage	16 kV
Degree of Protection	**EMPV4N / EMPV10N :** IP 68
Contact Material	Copper with Tin Plating
Ambient Temperature	-40° C to +85° C
Max. Operating Temp.	+110° C
Pollution Degree	3
Contact Resistance	≤ 0.25 mΩ
Insertion Force	≤ 50 N
Withdrawal Force	≥ 50 N
Locking System	Snap In

Note : Our Connectors are suitable for PV Solar Cables of 2.5 / 4.0 / 6.0 / 10.0 mm^2 (As per standard EN 50618 / IEC 62930).
*Connectors when mated, need a tool to open in accordance with NEC 2014.

'elmex' PV Solar Panel Connectors

'elmex' PV Solar Panel connectors **EMPVPCM4N** and **EMPVPCF4N** are applicable for panel mounting connection. They are constructed using flame retardant engineering thermoplastic suitable for exposure to UV rays and for application in PV power generation system. 'elmex' panel connectors are designed for use in connection for photovoltaic devices like DC Distribution Box, Inverter, String Combiner Box, etc. These connectors are provided with hexagonal nut for fixing and tightening it on mounting surface. A silicon rubber o-ring is provided between panel connector surface and the wall of the photovoltaic enclosure ensuring protection against ingress of water & dust. 'elmex' panel connectors have mating compatibility not only with 'elmex' straight connectors but also with straight connectors of leading international makes having similar construction.

with NEC Interlock*

R60126561

EMPVPCM4N

with NEC Interlock*

R60126561

EMPVPCF4N

Features

- TUV Certified
- Snap Fit Locking Arrangement
- IP 68 Protection when mated
- Low Contact Resistance
- Provides UV Protection (Tested for 500 hrs as per ISO 4892-2)
- Tested as per International Standards / IEC 62852

Description	Specifications
Rated Voltage	1500V DC
Rated Current	25A (2.5 mm^2), 45A (4 mm^2), 54A (6 mm^2)
RMS Test Voltage	8 kV
Impulse withstand Voltage	16 kV
Degree of Protection	IP 68
Contact Material	Copper with Tin Plating
Ambient Temperature	-40° C to +85° C
Max. Operating Temp.	+110° C
Pollution Degree	3
Contact Resistance	≤ 0.25 mΩ
Insertion Force	≤ 50 N
Withdrawal Force	≥ 50 N
Locking System	Snap In

Note: Our Connectors are suitable for PV Solar Cables of 2.5 / 4.0 / 6.0 mm^2 (As per standard EN 50618/ IEC 62930).

*Connectors when mated, need a tool to open in accordance with NEC 2014.

'elmex' PV Solar Straight Inline Fuse Connectors-1500V

'elmex' PV Solar Straight Inline fuse connectors **EMPV4IFC1500, EMPV4IFCM1500, EMPV4IFCF1500** and **EMPV4IFC1500-CC** are applicable for photovoltaic string protection. The variants of these connectors offer users with options of either using a male or female straight connector at one end & cable at the other end or using male/female straight connectors at both the ends for string protection with fuse. 'elmex' straight inline fuse connectors have plug & socket design suitable for **2.5, 4.0, 6.0 mm²** size cables & are constructed using flame retardant engineering thermoplastic suitable for exposure to UV rays & for application in PV power generation system. They are suitable for use with gPV (Cylindrical) fuse of ø 10 X 85 mm.

EMPV4IFC1500

EMPV4IFCM1500

EMPV4IFCF1500

Description	Specifications
Rated Voltage	1500V DC
Rated Current	30A
RMS Test Voltage	8 kV
Impulse withstand Voltage	16 kV
Degree of Protection	IP 68
Contact Material	Copper with Tin Plating
Ambient Temperature	-40° C to +85° C
Max. Operating Temp.	+110° C
Pollution Degree	3
Insertion Force	≤ 50 N
Withdrawal Force	≥ 50 N
Locking System	Snap In

Note: (1) Our Connectors are suitable for PV Solar Cables of 2.5 / 4.0 / 6.0 mm²
(As per standard EN 50618/ IEC 62930).
(2) Connectors when mated, need a tool to open in accordance with NEC 2014.
(3) It is recommended to use gPV (cylindrical) fuse of ø 10 X 85 mm dimension.
(4) Do not connect Straight Inline fuse connectors directly to MPPT of String Invertor.

'elmex' gPV Fuse Link

EPVFL1500

'elmex' gPV Fuse Link suitable for 1500V DC photovoltaic applications.

Description	Specifications
Rated Voltage	1500V DC
Rated Current	upto 30 A
Type	gPV (Cylindrical)
Dimension	ø 10 X 85 mm
Testing Standard	UL 248-1, UL 248-19 Extended to UL 2579

LISTED
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'elmex' PV Solar Straight Inline Fuse Connectors-1000V

'elmex' PV Solar Straight Inline fuse connectors **EMPV4IFC, EMPV4IFCM** and **EMPV4IFCF** are applicable for photovoltaic string protection. The variants of these connectors offer users with options of either using a male or female straight connector at one end and cable at the other end or using male/female straight connectors at both the ends for string protection with fuse. 'elmex' straight inline fuse connectors have plug and socket design suitable for **2.5, 4.0, 6.0 mm²** size cables and are constructed using flame retardant engineering thermoplastic suitable for exposure to UV rays & for application in PV power generation system. They are suitable for use with gPV (Cylindrical) fuse of ø 10 X 38 mm.

EMPV4IFC

EMPV4IFCM

EMPV4IFCF

Description	Specifications
Rated Voltage	1000V DC
Rated Current	15A
RMS Test Voltage	6 kV
Impulse withstand Voltage	12 kV
Degree of Protection	IP 68
Contact Material	Copper with Tin Plating
Ambient Temperature	-40° C to +85° C
Max. Operating Temp.	+110° C
Pollution Degree	3
Insertion Force	≤ 50 N
Withdrawal Force	≥ 50 N
Locking System	Snap In

Note: (1) Our Connectors are suitable for PV Solar Cables of 2.5 / 4.0 / 6.0 mm²
As per standard EN 50618/IEC 62930.
(2) Connectors when mated, need a tool to open in accordance with NEC 2014.
(3) It is recommended to use gPV (cylindrical) fuse of ø 10 X 38 mm dimension.
(4) Do not connect Straight Inline fuse connectors directly to MPPT of String Invertor.

'elmex' gPV Fuse Link

EPVFL

'elmex' gPV Fuse Link suitable for 1000V DC photovoltaic applications.

Description	Specifications
Rated Voltage	1000V DC
Rated Current	4, 10, 12, 15, 16, 20, 25, 30 A
Type	gPV (Cylindrical)
Dimension	ø 10 X 38 mm
Testing Standard	IEC 60269-6

'elmex' PV Solar Over Moulded Inline Fuse Connectors-1500V

'elmex' PV Solar Over Moulded Inline Fuse Connector is suitable for photovoltaic applications, having plug & socket design suitable for 4.0 and 6.0 mm^2 size cables. They are constructed using flame retardant engineering thermoplastic elastomer suitable for exposure to UV rays & for application in PV power generation system. The over moulded Inline Fuse connector is customized solution available with different sizes of DC cables, DC fuse link rating up to 30A and can be configured using with Branch Connector to serve the application of Branch with fuse connectors for PV String Protection .

Over Moulded Inline Fuse Connector

Description	Specifications
Rated Voltage	1500V DC
Rated Current	15A, 20A, 25A, 30A
RMS Test Voltage	8 kV
Contact Material	Copper with Tin Plating
Degree of Protection	IP 68
Pollution Degree	III
Rated Conductor Size	4.0 mm^2 / 6.0 mm^2
Compatible with	EMPV4N

Note: (1) 'elmex' Over Moulded Inline Fuse connector is customized, based on cable size, length & type of DC fuse link up to 30A
(2) Connectors when mated, need a tool to open in accordance with NEC 2014.
(3) Over Moulded Inline Fuse connector does not have fuse replacement provision.
(4) Solar DC Cable 4.0 mm^2 / 6.0 mm^2 as per standard EN 50618/ IEC 62930.

'elmex' gPV Fuse Link

EPVFL1500

'elmex' gPV Fuse Link suitable for 1500V DC photovoltaic applications.

Description	Specifications
Rated Voltage	1500V DC
Rated Current	up to 30 A
Type	gPV (Cylindrical)
Dimension	ø 10 X 85 mm
Testing Standard	UL 248-1, UL 248-19 Extended to UL 2579

LISTED
E510330

'elmex' PV Solar Over Moulded Wire Harnesses

'elmex' PV Solar Over Moulded Wire Harness solutions are suitable for photovoltaic applications, having multiple input & output with plug & socket design suitable for 2.5, 4.0, 6.0 mm^2 size cables. They are constructed using flame retardant engineering thermoplastic elastomer suitable for exposure to UV rays & for application in PV power generation system. The over moulded wire harnesses are customized solutions & can be configured using straight connectors or inline fuse connectors with different cable sizes of 2.5, 4.0 & 6.0 mm^2.

'Y - Type' Male Harness

'Y - Type' Female Harness

'Y - Type' 6 in 1 out Harness

Description	Specifications
Rated Voltage	1500V DC
Rated Output Current	25A (2.5 mm^2), 45A (4 mm^2), 54A (6 mm^2)
RMS Test Voltage	8 kV
Contact Material	Copper with Tin Plating
Degree of Protection	IP 68
Pollution Degree	III
Rated Conductor Size	2.5 mm^2 / 4.0 mm^2 / 6.0 mm^2
Locking System	Snap In Locking Type

Note: (1) 'elmex' Wire Harness solutions are customized, based on cable size, length & type of connectors
(2) Connectors when mated, need a tool to open in accordance with NEC 2014.
(3) Solar DC Cable 2.5 mm^2 / 4.0 mm^2 / 6.0 mm^2 as per standard EN 50618/IEC 62930.

'elmex' PV Solar Over Moulded Wire Harnesses with Fuse

'elmex' PV Solar Over Moulded Wire Harness solutions are suitable for photovoltaic applications, having multiple input & output with plug & socket design suitable for 2.5, 4.0, 6.0 mm^2 size cables. They are constructed using flame retardant engineering thermoplastic elastomer suitable for exposure to UV rays & for application in PV power generation system. The over moulded wire harnesses are customized solutions & can be configured using straight connectors or inline fuse connectors with different cable sizes of 2.5, 4.0 & 6.0 mm^2.

'Y - Type' Male Harness

'Y - Type' Female Harness

Description	Specifications
Rated Voltage	1500V DC
Rated Current	54A (Output)
RMS Test Voltage	8 kV
Contact Material	Copper with Tin Plating
Degree of Protection	IP 68
Pollution Degree	III
Rated Conductor Size	2.5 mm^2 / 4.0 mm^2 / 6.0 mm^2
Locking System	Snap In Locking Type

Note: (1) 'elmex' Wire Harness solutions are customized, based on cable size, length & type of connectors
(2) Connectors when mated, need a tool to open in accordance with NEC 2014.
(3) Solar DC Cable 2.5 mm^2 / 4.0 mm^2 / 6.0 mm^2 as per standard EN 50618/IEC 62930.

'elmex' gPV Fuse Link

EPVFL1500

'elmex' gPV Fuse Link suitable for 1500V DC photovoltaic applications.

Description	Specifications
Rated Voltage	1500V DC
Rated Current	upto 30 A
Type	gPV (Cylindrical)
Dimension	ø 10 X 85 mm
Testing Standard	UL 248-1, UL 248-19 Extended to UL 2579

UL LISTED E510330

'elmex' PV Solar Over Moulded Wire Harnesses with Fuse

'elmex' PV Solar Over Moulded Wire Harness solutions are suitable for photovoltaic applications, having multiple input & output with plug & socket design suitable for 2.5, 4.0, 6.0 mm^2 size cables. They are constructed using flame retardant engineering thermoplastic elastomer suitable for exposure to UV rays & for application in PV power generation system. The over moulded wire harnesses are customized solutions & can be configured using straight connectors or inline fuse connectors with different cable sizes of 2.5, 4.0 & 6.0 mm^2.

'Y - Type' Male Harness

'Y - Type' Female Harness

Description	Specifications
Rated Voltage	1000V DC
Rated Current	30A (Output)
RMS Test Voltage	6 kV
Contact Material	Copper with Tin Plating
Degree of Protection	IP 68
Pollution Degree	III
Rated Conductor Size	2.5 mm^2 / 4.0 mm^2 / 6.0 mm^2
Locking System	Snap In Locking Type

Note: (1) 'elmex' Wire Harness solutions are customized, based on cable size, length & type of connectors
(2) Connectors when mated, need a tool to open in accordance with NEC 2014.
(3) Solar DC Cable 2.5 mm^2 / 4.0 mm^2 / 6.0 mm^2 as per standard EN 50618/IEC 62930.

'elmex' gPV Fuse Link

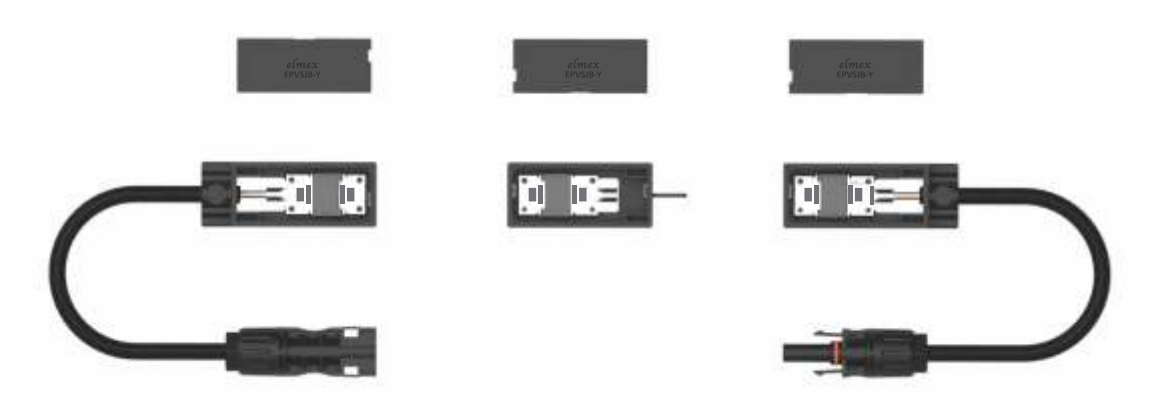
EPVFL

'elmex' gPV Fuse Link suitable for 1000V DC photovoltaic applications.

Description	Specifications
Rated Voltage	1000V DC
Rated Current	4, 10, 12, 15, 16, 20, 25, 30 A
Type	gPV (Cylindrical)
Dimension	ø 10 X 38 mm
Testing Standard	IEC 60269-6

'elmex' PV Solar Split Junction box

'elmex' **EPVSJB-Y** is the latest generation PV solar split junction box, providing robust electrical connections for bifacial and half-cut cell solar PV modules. Featuring an integrated chip-type Schottky Diode with excellent temperature stability and quick switching response, as well as UL94-V0, 5VA flammability class, and IP 68 protection class assures durability and reliable performance under harsh environments. The **EPVSJB-Y** allows PV ribbons of PV modules to connect in Split Junction Box rails via soldering process, maximizing the electrical output of PV modules, with improved overall system efficiency.



EPVSJB-Y

EPVSJB-Y (Y= 20A or 25A or 30A)

E : Brand name
PV : Photovoltaic
SJB : Split Junction Box
Y : Rated Current

- EPVSJB-20A - Rated Current 20A & Solder type terminal for PV ribbon
- EPVSJB-25A - Rated Current 25A & Solder type terminal for PV ribbon
- EPVSJB-30A - Rated Current 30A & Solder type terminal for PV ribbon

Description	Specifications
Rated Voltage	1500V DC
Rated Current	20 A / 25 A / 30 A
Rated Impulse Voltage	16 kV
RMS withstand Voltage	8 kV
Reverse Current	45 A
Protection Class/ Over Voltage category	Class II/3
Application Class	A
Flammability Class/ Pollution Degree	UL94-V0, 5VA / 1
Diode Rating	If=30A/VRRM=45 V for EPVSJB-20A If=40A/VRRM=45 V for EPVSJB-25A If=50A/VRRM=45 V for EPVSJB-30A
No. of Schottky Diodes	3
Width of Busbar	Max. 8.5 mm
Bounding mode	Silicon Glue / Sealant
Cable size	4 mm^2
Standard Cable Length	1000 mm
Operating Temperature	-40˚C to +85˚C
PV Connectors (Male & Female)	1500V DC, 54A, IP 68 as per IEC 62852, Model No.: EMPV4N
Solar DC cable Standard	EN 50618 / IEC 62930

Note: 'elmex' EPVSJB-Y is customized, based on length & types of diode rating up to 30A.

'elmex' PV Solar - 2 Rail Junction Boxes

'elmex' PV Solar - 2 Rail Junction Boxes **EPVJB3** and **EPVJB6** are suitable for Solar Street Light Low Wattage (less than 50W) Panels. They are designed with sliding snap fit locking arrangement, available with 2 - in and 1 - out cable connections.

EPVJB3

EPVJB6

Description	Specifications EPVJB3	Specifications EPVJB6
Rated Current	3A	6A
Contact Material	Copper Alloy with Nickel and Tin Plating	Copper Alloy with Nickel and Tin Plating
Ambient Temperature	-40° C to +85° C	-40° C to +85° C
Application	3W to 20W	30W to 50W
Locking System	Sliding Snap Fit	Sliding Snap Fit

'elmex' PV Solar - 2 Rail Junction Box with Diode

'elmex' PV Solar - 2 Rail Junction Box **EPVJB-2R** is suitable for Solar Street Light Low Wattage (less than 150W) Panels. It is designed with snap fit locking arrangement, available with 2 - in 1 - out cable connection & with 6A / 10A diode.

EPVJB-2R

Description	Specifications
Rated Voltage	1000V DC
Rated Current	6A / 10A
Contact Material	Copper Alloy with Nickel and Tin Plating
Degree of Protection	IP65
Ambient Temperature	-40° C to +85° C
Application	50W to 150W
Locking System	Snap Fit
Diode Rating	6A / 10A

'elmex' PV Solar Fuse Terminal Block - 1000V

'elmex' PV Solar Fuse Terminal Block **EPVFH1000NV** is suitable for photovoltaic application & applicable for string protection. It is designed for use in connection for photovoltaic devices like DC and AC Distribution Box, Inverter, String Combiner Box, etc. which is used for rooftop or ground mounted projects. The fuse terminal block is constructed as per standard UL 4248-1 and UL 4248-19 are suitable for cylindrical gPV fuse size ø 10 X 38 mm. Fuse Terminal Blocks can be mounted along with spacer. The Spacer creates gap and adjacent fuse holders and this gap allows air circulation thereby reducing operating temperature.

EPVFH1000NV

SPACER
For PV Fuse Terminal Block
EPVFH1000NV

TGS

Description	Specifications
Rated Voltage	1000V DC
Rated Current	32A
Degree of Protection	IP 20
Rated Cross Section	8 - 18 AWG
Rated Torque	24.2 lb-in
Dimensions (W x H x P)	78 x 62 x 18 mm
Mounting Channel	CHK / CHKS
Standard Box Packing	20 Nos.

LISTED
E509305

Note: It is recommended to use gPV (cylindrical) fuse of ø 10 X 38 mm dimension.

'elmex' gPV Fuse Link

EPVFL

'elmex' gPV Fuse Link suitable for 1000V DC photovoltaic applications.

Description	Specifications
Rated Voltage	1000V DC
Rated Current	4, 10, 12, 15, 16, 20, 25, 30 A
Type	gPV (Cylindrical)
Dimension	ø 10 X 38 mm
Testing Standard	IEC 60269-6

'elmex' PV Solar Fuse Terminal Block - 1500V

'elmex' PV Solar Fuse Terminal Block **EPVFH1500-LGREY** is suitable for photovoltaic application and applicable for string protection. It is designed for use in connection for photovoltaic devices like DC and AC Distribution Box, Inverter, String Combiner Box, etc. which is used for rooftop or ground mounted projects. The fuse terminal block is constructed as per standard IEC 60269-1,-2 are suitable for cylindrical gPV fuse size ø 10/14 X 85 mm.

EPVFH1500-LGREY

Description	Specifications
Rated Voltage	1500V DC
Rated Current	50A
Degree of Protection	IP 20
Rated Cross Section	4 - 25mm^2 / 3 - 12 AWG
Rated Torque	2 Nm
Dimensions (W x H x P)	135 x 64.50 x 22.00 mm
Mounting Channel	CHK / CHKS
Standard Box Packing	6 Nos.

Note: It is recommended to use gPV (cylindrical) fuse of ø 10/14 X 85 mm dimension.

'elmex' gPV Fuse Link

'elmex' gPV Fuse Link suitable for 1500V DC photovoltaic applications.

ø 10 X 85 mm up to 32A ø 14 X 85 mm up to 50A

EPVFL1500

Description	Specifications
Rated Voltage	1500V DC
Rated Current	ø 10 X 85 mm upto 32A, ø 14 X 85 mm upto 50A
Type	gPV (Cylindrical)
Dimension	ø 10/14 X 85 mm
Testing Standard	UL 248-1, UL 248-19 Extended to UL 2579 for ø 10X85 mm IEC 60269-6, EN 60269-6 for ø 14X85 mm

LISTED
E510330

Manufactured in Vadodara, Gujarat, India

Type 2 DC SPD

SPPV3T2-1000

SPPV3T2-1500

Type 2 AC SPD

SPPV3+1T2-320

SPPV1+1T2-320

'elmex' Type	Product Description
SPPV3+1T2-320	320V AC 3+1 Pole - Type 2 SPD
SPPV1+1T2-320	320V AC 1+1 Pole - Type 2 SPD
SPPV1T2-320	320V AC 1 Pole - Type 2 SPD
SPPV2T2-320	320V AC 2 Pole - Type 2 SPD
SPPV3T2-320	320V AC 3 Pole - Type 2 SPD
SPPV4T2-320	320V AC 4 Pole - Type 2 SPD
SPPV3T2-1000	1000V DC - Type 2 SPD
SPPV3T2-1000R	1000V DC with Remote Signalling Contact - Type 2 SPD
SPPV3T2-1500	1500V DC - Type 2 SPD
SPPV3T2-1500R	1500V DC with Remote Signalling Contact - Type 2 SPD
SPPV2T2-600	600V DC - Type 2 SPD

2 Pole DC MCB

MCD16C2

MCD25C2

4 Pole DC MCB

MCD32C4

MCD63C4

'elmex' make DC MCBS are confirming to IEC 60947-2

'elmex' Type	Product Description
MCD16C2	16A, 2 Pole DC MCB
MCD16C4	16A, 4 Pole DC MCB
MCD20C2	20A, 2 Pole DC MCB
MCD20C4	20A, 4 Pole DC MCB
MCD25C2	25A, 2 Pole DC MCB
MCD25C4	25A, 4 Pole DC MCB
MCD32C2	32A, 2 Pole DC MCB
MCD32C4	32A, 4 Pole DC MCB
MCD63C4	63A, 4 Pole DC MCB

'elmex' PV Solar ToolKit - EMPVKIT

ESCCT: Crimping tool

Application: Crimping tool ESCCT to be used for crimping of different size of solar DC cable in contact pins with different jaws placing sizes of 2.5 mm^2,4 mm^2, 6 mm^2,10 mm^2.

EMPVCRT: Solar Cable Stripper

Application: Wire Stripper is used for stripping of solar DC cable sizes of 2.5mm^2, 4mm^2, 6mm^2.

EMPVCCUT: Solar Cable Cutter

Application: To cut the Solar DC Cable.

EPVOS-S: Spanner

Application: Tighten and open the pair of PV Connectors EMPV4 / EMPV4N.

EPVOS-BF: Spanner

Application: To open the PV Branch with Inline Fuse Connectors for fuse replacement EBWFPVM1500, EBWFPVF1500.

EPVOS-10N: Spanner

Application: Tighten and open the pair of PV Connector EMPV10N.

EPVOS-U: Spanner

Application: To open the pair of PV Connectors of different makes.

EMPVGNG: Go-No Go Gauge

Application: To verify proper locking of Male and Female contact pins in PV Connector Insulation Housing.

EMPVPC4N: Panel connector pair

Application: A pair of Panel connector used in Inverter and combiner box.

EMPV4N: Straight connector pair

Application: A pair of Straight connector used with Inverter, Combiner box and PV Module connector.

EPVOS-P: Spanner

Application: To Hold housing of the PV Connectors and to open a pair of connector from Inverter and combiner box.

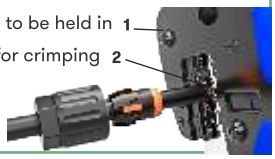
Solar Connector Assembly Instructions

Step 1 Prepare the cable by inserting following components in the sequence as mentioned below:

Sequence Components
1) Connector Cap
2) Grommet with Collet

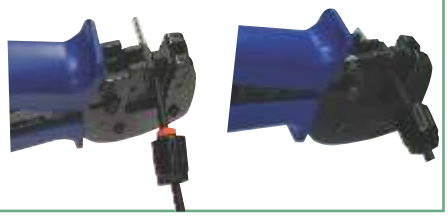
Step 2 Strip the cable as per specified stripping length i.e. 8mm to 10mm

Step 3
1) Select the jaw as per cable size
2) Place the cable in the appropriate jaw



Step 4
Hold the contact in a crimping tool

Step 5
Insert the cable into the contact



Step 6
Press the crimping tool until it release itself

Step 7
Insert the crimped contact into the straight connector until a locking sound (click) is heard

Step 8
Set the Grommet & Collet properly on connector

Step 9
Tighten the cap with Tightening tool

EPVOS-S

Step 10
The Male & Female connectors are ready for connection

Step 11
1) Press to fit for reliable connection
2) Ensure that it looks properly for reliable connection

Note: Our Connectors are suitable for PV Solar cable of 2.5/4.0/6.0 mm^2 diameter as per EN 50618 / IEC 62930.

'elmex' Terminal Blocks for PV Applications

'elmex' range of Terminal Blocks for conductor size ranging from 2.5 to 95 mm^2 are tested and approved for 1000V DC / 1500V DC and are suitable for use in Solar Photovoltaic Systems. Electrical ratings of these terminal blocks are given below. These terminal blocks have conductor termination by screw-clamp technology or by screwless (spring clamp technology).

SCREW CLAMP TERMINAL BLOCKS

SCREWLESS TERMINAL BLOCKS

'elmex' Type	Ratings
KUT 2.5N	1000V DC/24 A/2.5 mm^2/0.4 Nm
KUT 4N	1000V DC/32 A/4 mm^2/0.5 Nm
KUT 6N	1000V DC/41 A/6 mm^2/0.8 Nm
KUT 10N	1000V DC/63 A/10 mm^2/1.2 Nm
KUT 25	1000V DC/101 A/25 mm^2/2.3 Nm
KUT35	1000V DC/125 A/35 mm^2/3 Nm
KUT 50	1000V DC/150 A/50 mm^2/8 Nm
KUT 95	1000V DC/232 A/95 mm^2/20 Nm
DST 2.5	1000V DC/24 A/2.5 mm^2
DST 2.5 1x2	1000V DC/24 A/2.5 mm^2
DST 4	1000V DC/32 A/4 mm^2
DST 6	1000V DC/41 A/6 mm^2
DST 10	1000V DC/57 A/10 mm^2
DST 16	1000V DC/76 A/16 mm^2
SCT 2.5	1000V DC/24 A/2.5 mm^2
SCT 4	1000V DC/32 A/4 mm^2
MCT 2.5	1000V DC/24 A/2.5 mm^2
MCT 2.5P4	1000V DC/24 A/2.5 mm^2
MCT 4	1000V DC/32 A/4 mm^2
DCT 2.5 1x2	1000V DC/24 A/2.5 mm^2
DCT 2.5 2x2	1000V DC/24 A/2.5 mm^2

since 1963

Elmex Controls Pvt. Ltd. | Elmex Electric Pvt. Ltd.

12, GIDC Estate, Makarpura, Vadodara -390010, Gujarat, India

0265-2642021 /23 +91 89054 03005 /6

solar@elmex.net I marketing@elmex.net

www.elmex.net

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TECHNICAL SPECIFICATIONS MAY CHANGE IN LINE WITH TECHNICAL ADVANCES AND INDUSTRY STANDARDS.