

SOLAR PV PRODUCTS

MCG
INDUSTRIAL

F4P



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ELECTRICAL
EXPERTS**

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All products are subject to availability and prices are correct at the time of print.
Prices valid until 5:30pm on 31st December 2023.

SOLAR CONNECTORS - Easy to install and connect

Straight Connectors

- 2.5mm, 4mm and 6mm [2784-5287 - 10mm]
- IP68 when connected
- 1500V DC
- Snap fit locking arrangement
- TUV certified



2784-5311



2784-5308

| F4P Ref | Code | Description |
|------------------|-----------|--|
| F4PEMPV4N | 2784-5308 | PV Straight MC4 Connector Pair 1.5kV |
| F4PEMPV4NSINGLE | 2784-5323 | PV Straight MC4 Connector Pair Singles 1.5kV |
| F4PEMPV4NF | 2784-5311 | PV Straight MC4 Connector Female 1.5kV |
| F4PEMPV4NFSINGLE | 2784-5314 | PV Straight MC4 Connector Female Singles 1.5kV |
| F4PEMPV4NM | 2784-5317 | PV Straight MC4 Connector Male 1.5kV |
| F4PEMPV4NMSINGLE | 2784-5320 | PV Straight MC4 Connector Male Singles 1.5kV |
| F4PEMPV10N | 2784-5287 | PV Straight MC4 Connector Pair 10mm 1.5kV |

Branch Connectors

- IP68 when connected
- 1500V DC
- Snap fit locking arrangement
- TUV certified



2784-5281

| F4P Ref | Code | Description |
|-------------|-----------|--------------------------------------|
| F4PEBPV4F-N | 2784-5281 | PV Branch MC4 Connector Female 1.5kV |
| F4PEBPV4M-N | 2784-5284 | PV Branch MC4 Connector Male 1.5kV |

Panel Connectors

- IP68 when connected
- 1500V DC
- Snap fit locking arrangement
- TUV certified



2784-5326

| F4P Ref | Code | Description |
|-----------------|-----------|---------------------------------|
| F4PEMPVPCM4-EX | 2784-5329 | PV Panel Connector Male 1.5kV |
| F4PEMPVPCF4N-EX | 2784-5326 | PV Panel Connector Female 1.5kV |

F4P®

In-Line Fuse Connectors

- IP68 when connected
- 1500V DC
- Snap fit locking arrangement
- TUV certified



2784-5290



2784-5305

| F4P Ref | Code | Description |
|-------------------------------------|-----------|-------------------------------------|
| In-Line Fuse Connector for 1000 VDC | | |
| F4PEMPV4IFC-1000 | 2784-5290 | PV IL Fuse Connector Pair 1kV |
| F4PEMPV4IFCF-1000 | 2784-5296 | PV IL Fuse Connector Female 1kV |
| F4PEMPV4IFCM-1000 | 2784-5302 | PV IL Fuse Connector Male 1kV |
| In-Line Fuse Connector for 1500 VDC | | |
| F4PEMPV4IFC1500 | 2784-5293 | PV IL Fuse Connector Pair 1.5kV |
| F4PEMPV4IFCF-1500 | 2784-5299 | PV IL Fuse Connector Female 1.5kV |
| F4PEMPV4IFCM-1500 | 2784-5305 | F4P PV IL Fuse Connector Male 1.5kV |

Fuse Holder for 1500 VDC

- 1500V DC
- Holds a 10 mm x 85 mm Solar cartridge fuse
- Mounts on DIN rail



| F4P Ref | Code | Description |
|----------------|-----------|------------------------------|
| F4PEPVFHI500NV | 2784-5332 | PV Solar Fuse Terminal Block |

SOLAR CONNECTOR ACCESSORIES



| F4P Ref | Code | Description |
|-----------------|-----------|-----------------------------------|
| F4PEPVSCPF | 2784-5341 | F4P Connector Sealing Caps Female |
| F4PEPVSCPM | 2784-5344 | F4P Connector Sealing Caps Male |
| F4PEPVOS-S | 2784-5335 | F4P Spanner Tools |
| F4PEPVOS-U | 2784-5338 | F4P Spanner Tool Disconnecter |
| F4PE0B40B41-001 | 2784-5272 | Solar Lead with connectors 2M |

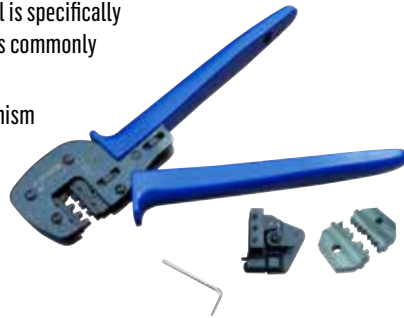
F4P®

SOLAR CONNECTOR ACCESSORIES

Specialist Solar Crimping Tool



- The professional Crimping tool is specifically designed for fitting connectors commonly found in Solar systems
- High-precision ratchet mechanism for complete crimps
- Ratchet release point in case of user error when crimping



| F4P Ref | Code | Description |
|----------|-----------|--------------------------------|
| F4PESSCT | 2784-5278 | Specialist Solar Crimping Tool |

OUT NOW

Fuse Boards & Circuit Protection Brochure



Scan for further details:



SOLAR FUSES

Solar gPV Fuses

- Sizes: 10 mm x 38 mm & 10 mm x 85 mm



2785-9399



| F4P Ref | Code | Description |
|-------------|-----------|----------------|
| 10mm x 38mm | | |
| LFPV324 | 2785-9390 | Solar Fuse 4A |
| LFPV325 | 2785-9393 | Solar Fuse 5A |
| LFPV326 | 2785-9396 | Solar Fuse 6A |
| LFPV328 | 2785-9399 | Solar Fuse 8A |
| LFPV3210 | 2785-9381 | Solar Fuse 10A |
| LFPV3212 | 2785-9384 | Solar Fuse 12A |
| LFPV3225 | 2785-9387 | Solar Fuse 25A |
| LFPV3232 | 2785-9402 | Solar Fuse 32A |
| 10mm x 85mm | | |
| LFPV3515 | 2785-9405 | Solar Fuse 15A |
| LFPV3520 | 2785-9408 | Solar Fuse 20A |
| LFPV3532 | 2785-9411 | Solar Fuse 32A |

KLEIN TOOLS SOLUTIONS

Rare Earth Magnet Torpedo Level



- Large, bright LED high definition vials are easy to read in any lighting condition
- Patented magnet track prevents powerful rare earth magnets from falling out
- Large, easy to read high visibility vials at 3 angles [level, 90 and 45 degrees]
- Large top view vial windows enable easy readability from multiple angles
- High visibility orange professional grade billet aluminium body is easy to see on conduit and at the jobsite
- Auto shut off saves battery life [3 minutes]
- V-Groove fits contour of conduit and pipe
- Tapered nose easily pushes into pockets
- Water and impact resistant



| F4P Ref | Code | Description |
|---------|-----------|---------------------------------------|
| 935RBLT | 2579-4706 | Klein Rare Earth Magnet Torpedo Level |

Rare Earth Magnet Aluminium Torpedo Level



- Locking track prevents powerful rare earth magnets from falling out
- Large, easy to read, high visibility vials at 3 angles: level, 90 and 45 degrees
- Large, top view vial window is easy to read from different angles
- High visibility orange body is easy to see on conduits and on the job site
- V-Groove fits conduit and pipe contours
- Made from aluminium for added durability



| F4P Ref | Code | Description |
|---------|-----------|---|
| 935R | 2243-1223 | Klein Rare Earth Magnet Aluminium Torpedo Level |



KLEIN TOOLS SOLUTIONS

Lightweight & Heavy-duty Knee Pad Sleeves

- The Lightweight Knee Pad Sleeves provide all day comfort
- The Heavy-duty Knee Pad Sleeves have triple-layer protection for all day comfort
- Unique, compact design keeps knee pads close to the body and centred for a second-skin fit, allowing for agility when working in tight spaces
- Can be worn under or over trousers
- Stay cool and comfortable with the lightweight, breathable mesh back
- Perfect for the jobsite and weekend tasks
- Sold in pairs

| F4P Ref | Code | Description |
|---------|-----------|--|
| 60492 | 2756-9473 | Klein Lightweight Knee Pads Sleeves M/L |
| 60592 | 2756-9479 | Klein Lightweight Knee Pads Sleeves L/XL |
| 60511 | 2756-9476 | Klein Heavy Duty Knee Pads Sleeves M/L |
| 60611 | 2756-9482 | Klein Heavy Duty Knee Pads Sleeves L/XL |

0.15mm² to 4.00mm² Wire Stripper / Cutter

The perfect tool for stripping 4mm solar cable

- Cuts and strips 0.15 - 4.0mm² wire with ease
- Compound action stripping: grip and strip via single-action squeezing motion
- Precision-machined stripping holes remove insulation easily without damaging the wire
- Remove up to 24mm in length of the insulation layer (jacket layer) in a single step
- Tension loaded wire grip gently holds the cable in place while retaining the cable geometry
- Recoil spring design returns tool to ready position upon cycle completion
- Cast alloy chassis with heavy-duty Ecoat finish for corrosion resistance and durability



| F4P Ref | Code | Description |
|-----------|-----------|---|
| 11063WMET | 1917-0802 | Klein 0.15mm ² to 4.00mm ² Wire Stripper / Cutter |

MEASURING SOLUTIONS

Digital Level with Programmable Angles



- Digital level measures 0 to 90 degree, 0 to 180 degree or dual axis bullseye ranges
- Pre-programmed commonly used target pitches for efficiency and ease of use: 1/8 inch, 1/4 inch, 3/8 inch and 1/2 inch per foot
- Easily achieve target angle by setting an audible alarm, LCD will change colour as a visual indicator of reaching the set target angle
- Use in bullseye orientation to accurately determine X- and Y-axis



2658-3655



2687-3845

Includes:

- Soft carry case
- 2 x AA batteries

| F4P Ref | Code | Description |
|---------|-----------|--|
| 935DAG | 2658-3655 | Klein Digital Angle Gauge & Level |
| 935DAGL | 2687-3845 | Klein Digital Level with Programmable Angles |

ISOLATOR SWITCHES

Enclosed Rotary Isolators DC IP66



- Suitable for Photovoltaic - Isolators, Inverter Applications, DC Solar Pumps
- Insulated enclosure flame retardant material
- Low smoke and halogen free
- Wiping contacts
- Padlockable for added security (up to 3 padlocks)
- Interlock Feature (Cover opens only in OFF position)
- Knockout cable entries



2781-7849

| Ref No. | Code | Current Rating 1500V | Current Rating 1000V | Dimensions (mm) | | |
|-----------|-----------|-------------------------|-------------------------|-----------------|-----|----|
| | | | | W | H | D |
| 4 Pole | | | | | | |
| SMI16-4DC | 2781-7849 | 16A | 20A | 100 | 160 | 74 |
| SMI20-4DC | 2781-7852 | 20A | 25A | 100 | 160 | 74 |
| SMI25-4DC | 2781-7855 | 25A | 32A | 100 | 160 | 74 |
| SMI32-4DC | 2781-7858 | 32A | 40A | 100 | 160 | 74 |

Enclosed Rotary Isolators AC IP65



- Flame retardant ABS plastic
- Easy access and switch removal
- Current rating: AC21 [resistive loads]
- Padlockable in the Off position
- Cable entry: 20 - 40A 20 mm[Ø] Knockouts
63 - 125A 25 mm[Ø] Knockouts
- Mounted: Surface
- BS EN 60947-3



0576-1585

| Ref No. | Code | Current Rating | Dimensions (mm) | | |
|----------|-----------|----------------|-----------------|-----|----|
| | | | W | H | D |
| 3 Pole | | | | | |
| SMI20-3 | 0576-1585 | 20A | 100 | 125 | 74 |
| SMI25-3 | 0433-1995 | 25A | 100 | 125 | 74 |
| SMI32-3 | 0433-2007 | 32A | 100 | 125 | 74 |
| 4 Pole | | | | | |
| SMI20-4 | 0576-1588 | 20A | 100 | 125 | 74 |
| SMI25-4 | 0433-2001 | 25A | 100 | 125 | 74 |
| SMI25-4L | 1462-6450 | 25A | 175 | 125 | 90 |
| SMI32-4 | 0433-2013 | 32A | 100 | 125 | 74 |
| SMI32-4L | 1462-6471 | 32A | 175 | 125 | 90 |

SURGE PROTECTION

Surge Arresters for Solar PV Installations



- Ideal for photovoltaic/solar systems
- Designed for the protection of the DC side before the inverter
- End of module life indication
- Remote signal contacts
- Pluggable and replaceable module
- Mounted: DIN rail
- Cable size: 6mm² to 25mm²
- Conforms to IEC 61643-1 and EN 61643-11



2524-0903

| Ref No. | Code | Type | Back Up Fuse Required | Modules | DC Rating |
|------------|-----------|--------|-----------------------|---------|-----------|
| SPD PV600 | 2524-0903 | T2 + 3 | 63A | 3 | 600V |
| SPD PV1000 | 2524-0900 | T2 + 3 | 63A | 3 | 1000V |
| LSPDPV1000 | 2764-7161 | T1 + 2 | 63A | 3 | 1000V |

Single Module T2-3 Surge Arresters AC



- Ideal for domestic applications
- Suitable for TN-S, TN-C-S, TT and PME earthing systems
- End of module life indication
- No earth leakage [can be placed either side of RCDs]
- Pluggable and replaceable module
- Mounted: DIN rail
- Cable size: 2.5mm² to 4mm²
- Suitable for use with any brand of consumer unit
- Conforms to IEC 61643-1 and EN 61643-11
- Compliant to latest BS 7671 wiring regulations



2524-0903

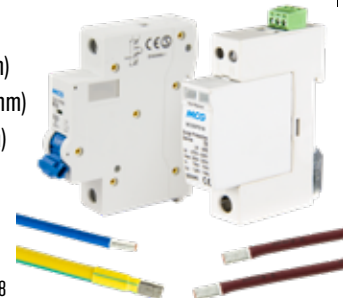
| Ref No. | Code | Type | Back Up Fuse Required | Version | Auxiliary Contact |
|---------|-----------|--------|-----------------------|--------------|-------------------|
| SY2-D | 2433-7003 | T2 + 3 | 16 - 32A | Single Phase | No |

T2-3 Surge Arrester AC Protection Kits



Cable Kit includes:

- 1 x Earth Cable (280mm)
- 1 x Neutral Cable (255mm)
- 2 x Live Cables (120mm)
- 1 x Auxiliary Block



2696-8078

| Ref No. | Code | Description |
|-------------|-----------|---|
| SPDT2PACK-M | 2696-8078 | 1 x Surge Protection Devices Ltd SPD, 1 x 32A MCB and 1 x Cable Kit |
| SPDT2PACK-S | 2708-4952 | 1 x MCG Industrial SPD, 1 x 32A MCB and 1 x Cable Kit |

SURGE PROTECTION

Two Module T2 - T3 Surge Arrester AC



- Protects against indirect lightning effects and transient surges
- Prolongs the life of appliances and sensitive electronic equipment
- Visual and remote end-of-life indication
- Recommended backup MCB: 32A
- Mounted: DIN rail
- BS EN 61643-11 and BS EN 62305
- Warranty: 10 Years
[enclosure warranty: 1 Year]

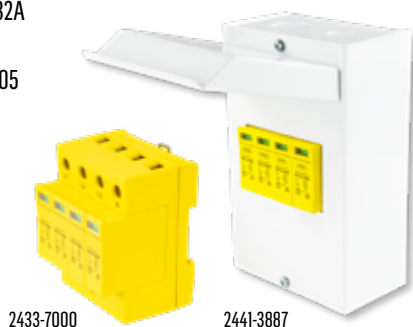


| Ref No. | Code | Type | Suitable For | No. of Poles | No. of Modules |
|---|-----------|-------------|-----------------|--------------|----------------|
| Device Only | | | | | |
| SY1-C40X | 2433-6997 | 2 + 3 | TN-S and TN-C-S | 2 | 2 |
| Ref No. | Code | No. of Ways | Height | Width | Depth |
| Device Complete with Metal Enclosure [IP20] | | | | | |
| SY1-C40XME | 2441-3881 | 2 + 3 | 145 mm | 80 mm | 82 mm |

Four Module T2 - T3 Surge Protection AC



- Protects against indirect lightning effects and transient surges
- Prolongs the life of appliances and sensitive electronic equipment
- Visual and remote end-of-life indication
- Recommended backup MCB: 32A
- Mounted: DIN rail
- BS EN 61643-11 and BS EN 62305
- Warranty: 10 Years
[enclosure warranty: 1 Year]

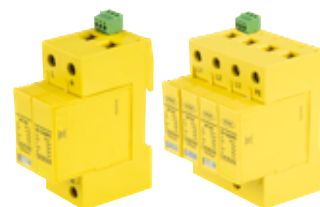


| Ref No. | Code | Type | Suitable For | No. of Poles | No. of Modules |
|---|-----------|-------------|-----------------|--------------|----------------|
| Device Only | | | | | |
| SY2-C40X | 2433-7000 | 2 + 3 | TN-S and TN-C-S | 4 | 4 |
| SY2-C40X-LED | 2606 4946 | 2 + 3 | TT | 4 | 4 |
| Ref No. | Code | No. of Ways | Height | Width | Depth |
| Device Complete with Metal Enclosure [IP20] | | | | | |
| SY1-C40XME | 2441-3887 | 2 + 3 | 175 mm | 110 mm | 82 mm |

Combined Lightning and Surge Protection Devices T1 +2 +3



- Protects against direct and indirect lightning effects and transient surges
- Prevents dangerous flashover to protect life in the case of a direct lightning strike
- Prolongs the life of appliances and sensitive electronic equipment
- Visual and remote end-of-life indication
- Mounted: DIN rail
- BS EN 61643-11 and BS EN 62305
- Warranty: 10 Years



2562-0748

2562-0751

| Ref No. | Code | Type | Suitable For | No. of Poles | No. of Modules |
|--------------|-----------|-----------|--------------|--------------|----------------|
| Device Only | | | | | |
| SY123/25KA2P | 2562-0748 | 1 + 2 + 3 | TT | 2 | 2 |
| SY123/50KA4P | 2562-0751 | 1 + 2 + 3 | TT | 4 | 4 |

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ELECTRICITY METERS

Renewable Energy Meters - Single Phase

- Suitable for import and export applications used for solar PV installations



2027-1052



2764-4347



2757-2029



2648-6740

| Ref No. | Code | Tariff | Type | Reading | Connection | Mounting | Cable Cover | Output | Smart Enabled |
|------------------|-----------|--------|---|---|----------------|----------------------------------|----------------------|-----------------------------|---|
| MIPHI00MID/BI/EC | 2027-1052 | Single | kWh Meter | Import Only | Direct Connect | Surface Mounted | Standard | Optional Pulse Output | No |
| MIPHI00MID/NR/EC | 2764-4347 | Single | Generation Meter [Solar PV] | Import / Export | Direct Connect | Surface Mounted | Extended Cable Cover | Optional Pulse Output | No |
| MIPHI00MID/NR/EC | 2764-4353 | Single | Generation Meter [Net Reading / Solar PV] | Import / Export / Net Reading | Direct Connect | Surface Mounted | Extended Cable Cover | Optional Pulse Output | No |
| DIP100A/2M | 2648-6740 | Single | Generation Meter [Solar PV] | Import / Export (Export only on modbus) | Direct Connect | Din Rail Mounted [2 Module Wide] | Standard | Pulse/ Modbus / Mbus Output | No |
| EMGSM1 | 2757-2011 | Single | Generation Meter [Solar PV] | Import / Export | Direct Connect | Surface Mounted | Standard | - | Auto Meter Reading - Read Only [Modem & Meter-online SIM] |
| WIFI00MID | 2757-2029 | Single | Generation Meter [Solar PV] | Import [Export Via APP] | Direct Connect | Surface Mounted | Standard | Pulse Output Optional | Auto Meter Reading [WIFI] Read Only |

120A 3PH 4 Wire Dual Elec/Pulsed Meter Dir. Con.

- A three phase, single tariff, kWh micro-generation meter, a multifunction meter capable of measuring Reactive energy (kVarh), Voltage (V) and Current (I).



1629-7411



2786-1823



| Ref No. | Code | Tariff | Type | Reading | Connection | Mounting | Cable Cover | Output | Smart Enabled |
|-------------|-----------|--------|-----------------------------|-----------------|----------------|-----------------|-------------|--------------|---------------|
| ISK/MT174DC | 1629-7411 | Three | Generation Meter [Solar PV] | Import / Export | Direct Connect | Surface Mounted | Standard | Pulse Output | No |

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