

SOLAR SOLUTIONS
PRODUCT BROCHURE





BALANCE OF SYSTEMS

Bridgeport Fittings, Polaris, Metallics Fasteners, Remke and more deliver innovative solar product solutions in multiple categories. We offer Bridgeport® liquidtight and raintight fittings, grounding and bonding products, conduit bodies, straps and Polaris® mechanical connectors, PowerGRP® wire management devices and other supplies to meet your solar installation needs. When you're installing innovative ways to generate energy, make sure to use innovative products up to the task.

BRANDS YOU CAN TRUST



FITTINGS, CONNECTORS AND MORE

- 1** LIQUIDTIGHT FITTINGS — BRIDGEPORT
- 3** WET LOCATION FITTINGS — BRIDGEPORT
- 5** ALUMINUM CONDUIT BODIES — BRIDGEPORT
- 7** CORD GRIPS AND CONNECTORS — REMKE
- 9** GROUNDING & BONDING - POLARIS
- 11** SYSTEM & INTERSYSTEM - POLARIS
- 13** POWER CONNECTORS — POLARIS
- 14** COMPRESSION LUGS AND SPLICES — POLARIS

SUPPLIES

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- 16** CABLE TIES & CLIPS — POWERGRP
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- 17** ELECTRICAL TAPE — WARRIORWRAP
- 18** FASTENERS — METALLICS
- 18** ROOF JACK KIT — METALLICS

1 DC COMBINER & TRANSITION BOXES

Grounding is an essential requirement for any PV system. NSI offers an array of Listed grounding products to ensure the system is protected.



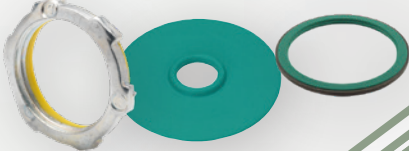
2 CONDUIT SYSTEMS

All fittings must be rated for the environment weather raintight or UV resistant. NSI has products especially designed for Solar rooftop applications.



3 INVERTERS & SWITCHES

NSI has creative solutions to help solar contractors be more productive while maintaining the integrity of the all outdoor installed equipment.



4 METERS, BREAKERS & LOAD CENTERS

Keep your systems safe with listed grounding and power connectors from NSI.



5 DISCONNECTS & SAFETY SWITCHES

Innovative patented products that are designed and created for solar installations ensure your installs are code compliant.



8 VARIOUS APPLICATIONS

Options for drains, roof flashing and more.



7 WIRE MANAGEMENT

Organize and protect wiring in harsh environments.



6 CABLE CONNECTORS & LUGS

Polaris, the brand asked for by name, provides pre-insulated connectors and now available with compression and mechanical lugs.



COMPLETE SOLAR SOLUTIONS

YOU CAN COUNT ON



- ✓ 360 degrees of support and confidence "ONE Pledge" *
- ✓ Focused on fulfilling the needs of distributors
- ✓ Transactional electronic efficiency
- ✓ World-class distribution and fast cycle logistics
- ✓ Seamless technical and customer support
- ✓ Demand-generation

*See back for details

LIQUIDTIGHT FITTINGS



Liquidtight fittings for flexible metal conduit are suitable for a wide range of solar installations. Our liquidtight fittings are designed to stand up to demanding, wet or corrosive environments.

NONMETALLIC LIQUIDTIGHT CONNECTORS

Use Bridgeport nonmetallic liquidtight straight connectors to join nonmetallic “Type B” liquidtight conduit to a box or enclosure in wet environments. The NPT threads, knockout gasket and inner sealing provide a liquidtight connection.



429-NMLT to 435-NMLT

METALLIC LIQUIDTIGHT CONNECTORS



429-LT2 to 439-LT2

Use Bridgeport liquidtight zinc straight connectors to join metallic and nonmetallic “Type B” liquidtight conduit to a box or enclosure in wet environments. The NPT threads, polyethylene gasket and inner sealing ring provide a liquidtight seal.

Use Bridgeport liquidtight steel straight connectors to join metallic liquidtight conduit to an electrical box or enclosure in wet environments. Fitted with NPT threads and sealing gaskets, these connectors provide a liquidtight connection.



429-SLT to 439-SLT

SEALING RINGS

Use Bridgeport sealing rings to make liquidtight connections between liquidtight connectors, raintight EMT connectors and a box knockout. The polyethylene gasket and steel retaining ring keeps water out when secured with a locknut.



SR-050 to SR-400

TRANSITION FITTINGS



4365-DC

Use Bridgeport liquidtight transition couplings to transition between metallic or nonmetallic “Type B” liquidtight conduit and EMT in wet locations. Patented zinc transition couplings provide a concrete-tight seal and are UL-listed as raintight.

Use Bridgeport combination couplings to join rigid or intermediate metal conduit and metallic liquidtight conduit in wet locations. These UL-listed connectors provide a concrete-tight and listed raintight seal.



4369-LT to 4375-LT

WET LOCATION FITTINGS



Raintight and wet location connectors and couplings are available for cable, EMT and rigid conduits. Our separate sealing rings ensure a raintight seal and our split-type compression rings make for fast, reliable installations.

X-LONG THREAD RAINLIGHT EMT CONNECTORS

Bridgeport extra long raintight compression connectors allow the sealing gasket, locknut and grounding bushing to be assembled to thick wall enclosures. The patented design comes with NPSM male threads and a robust outdoor rated polyethylene gasket with steel zinc plated retainer.



(1/2", 3/4", & 1")
250-RT2XL, 251-RTXL, 252-RTXL

RAINTIGHT EMT CONNECTORS



250-RT2 to RTI2
(Zinc Series)

250-SRT to 259-SRT
(Steel Series)

Bridgeport zinc alloy and zinc plated steel EMT connectors are listed for outdoor wet locations. These patented connectors are available with insulated throat. Our zinc alloy series is inherently corrosion resistant and listed for both steel and aluminum EMT. NPT male threads meet NEC requirements for securment into rigid conduit hubs.

RAINTIGHT EMT COUPLINGS

Bridgeport raintight compression couplings are used to join two lengths of EMT conduit, creating a long lasting wet location seal. Available in zinc plated steel and zinc alloy which is listed for both steel and aluminum EMT.



260-RT to 269-RT

260-SRT to 269-SRT

RAINTIGHT NPT THREADED HUB CONNECTORS



(1/2", 3/4", & 1")

250-RTNPT, 251-RTNPT, 252-RTNPT

Use Bridgeport -RTNPT connectors when connecting to EMT to Rigid conduit bodies, hubs or couplings. Bridgeport NPT threaded connectors are specifically listed for equipment grounding and prevent the ingress of rain. Designed to ANSI B1.20.1 thread standard for rigid conduit.



PVC JACKETED MC CABLE CONNECTORS

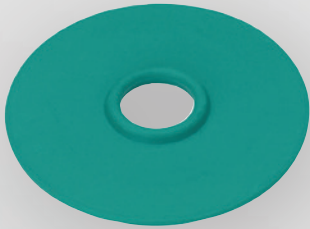
Use Bridgeport E-Z LOCK Technology to connect PVC Jacketed MC and TECK cable in wet locations. Now with Bridgeport E-Z LOCK Raintight fittings contractors can save time connecting PVC coated cable outdoors on rooftops, in parking garages, anywhere exposed to the environment.

595-DC2 to 598-DC2



895-DC2 to 898-DC2

RAINTIGHT REDUCING SEALING WASHERS AND LOCKNUTS



1061-RT to 1074-RT

Bridgeport NEMA 4 Rated Reducing Washers provide a wet location seal that is UV resistant. Sold in pairs, one coated washer has a built in gasket ensuring enough threads are available for the locknut.

Bridgeport PVC Sealing locknut's for threaded Rigid/IMC conduit. These steel locknuts securely fasten and provide Raintight seal when connecting threaded conduit to unthreaded opening in a box or enclosure.



141 to 150 Series

RAINTIGHT OFFSET NIPPLES



(1/2", 3/4", & 1")
1520-RT, 1521-RT, 1522-RT

Bridgeport raintight nipples provide a 3/4" offset between boxes and enclosures. Rugged zinc alloy construction is corrosion resistance. With integrated NEMA 4 gaskets and serrated locknut's these offset nipples provide convenience and ensure equipment grounding in wet locations.

ALUMINUM CONDUIT BODIES



RAINTIGHT TYPE LB & TYPE LLR

Conduit bodies with integral raintight connectors allow access to the interior of a conduit system. Integral raintight connectors eliminate the need to thread connectors into a conduit body entry.



(3/4" & 1")
LB-42RT & LB-43RT



(3/4" & 1")
LLR-42RT & LLR-43RT

Type LL/LR conduit bodies allow access to the interior of a conduit system for inspection, pulling and maintenance. Compression connectors create a raintight seal when securing EMT without the need for threading connectors into the hubs.

TYPE LB & TYPE C



C-41CG to C-50G

Bridgeport Type C combination conduit bodies allow access to the interior of conduit systems for inspection, pulling and maintenance. A combined set screw and NPT threaded design allows for use with rigid conduit, IMC and EMT.

Bridgeport Type LB combination conduit bodies allow access to the interior of a conduit system for inspection, pulling and maintenance. A combined set screw and NPT threaded design allows for use with rigid conduit, IMC and EMT.



LB-41CG to LB-50CG



TYPE LL & TYPE LR

Bridgeport type LL combination conduit bodies allow access to the interior of a conduit system for inspection, pulling and maintenance. A combined set screw and NPT threaded design allows for use with rigid conduit, IMC and EMT.



LR-41CG to LR-50CG

LL-41CG to LL-50CG

TYPE LLR



LLR-41 to LLR-46

Bridgeport combination conduit bodies allow access to the interior of raceway, for inspection, pulling and maintenance. Combination bodies can be used with EMT or threaded Rigid conduit applications. Type LL/LR bodies provide versatility to access from the left or right.

TYPE T



T-41CG to T-50CG

Bridgeport Type-T combination conduit bodies allow access to the interior of a conduit system for inspection, pulling and maintenance. A combined set screw and NPT-threaded design allows for use with rigid conduit, IMC and EMT.

CORD GRIPS & CONNECTORS



Remke's line of industrial-strength PowR-Teck™ connectors and cord grips deliver the best materials and construction to protect important electrical connections from destructive elements.

POWR-TECK CONNECTORS

POWR-TECK
CONNECTORS

POWR  **LOCK**

Remke Aluminum PowR-Teck Jacketed MC cable connectors feature a compact NEMA 4 design and exclusive one piece PowR-Lock grounding seal. No disassembly required, just push the prepared cable through, tighten the compression nut and you're done.



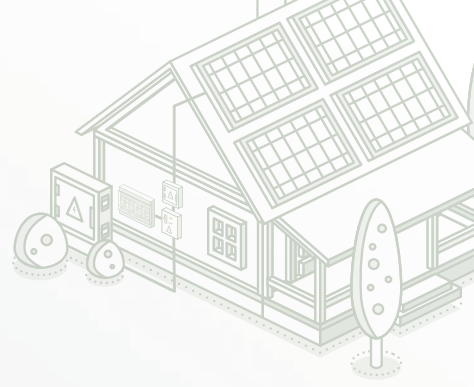
RTK-050-1 to RTK-400-29

SOLAR LIQUIDTIGHT CORD GRIPS



RHG-206 to RHG-608

Multi-hole Liquidtight wire grips can be used for solar rooftop installations when connecting multiple PV wires to combiner boxes. NPT male threads make them suitable for securing into hubs and conduit bodies. Made of UV resistant Nylon and TPE sealing gland for long lasting durability.



DRAIN FITTINGS

Remke drain fittings install at the bottom of enclosures and in conduit bodies to drain away condensation. These fittings provide continuous ventilation for the prevention and/or release of condensation when properly installed in the appropriate location.



RDC Series

ENGINEERED SOLUTIONS

We can design and manufacture custom cable connectors and cord grips for your application. Select exactly what you need, with everything from modified standard products to customized solutions based on your specifications and customer-driven design.

GROUNDING & BONDING



POLARIS®

Equipment grounding and bonding is required on all PV systems. We offer a wide range of locknuts, split bushings and grounding clamps for your installation.

GROUNDING LOCKNUTS



Bridgeport grounding locknuts are made of corrosion resistant zinc alloy with tin-plated aluminum grounding lugs, suitable for Cu and Al wire. These locknut's are listed for threaded Rigid/IMC conduit or any conduit or cable fitting connected to boxes or enclosures.



SPLIT BUSHINGS



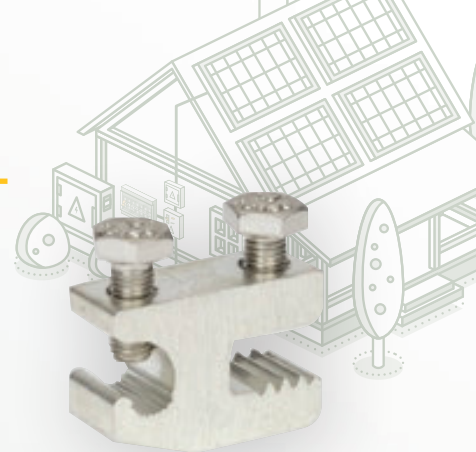
Use Bridgeport Mighty-Rite split grounding bushings to protect wires inside enclosures or outside when exposed to the weather. Replace damaged or corroded bushings to protect wires during the pull or retrofit missing or forgotten bushings. Listed for threaded Rigid & Intermediate conduit and EMT connectors.

SGB-382CL to SGB-390CL

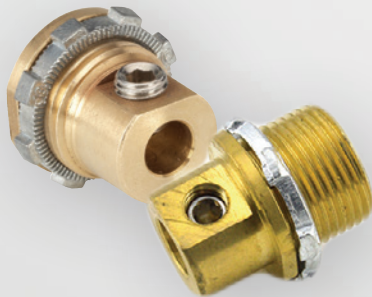
GROUNDING CONNECTORS AND COUPLINGS



Bridgeport tin-plated aluminum solar panel grounding connectors are designed to clamp onto the PV panel frame. The clamps unique serrations enhance conductivity between the bonding wire and framing, no preparation required.



(14 to 4 AWG)
ALI-SLR



(1/2" to 1")
MCC-050, MCC-075, MCC-100
MC-050, MC-075, MC-100



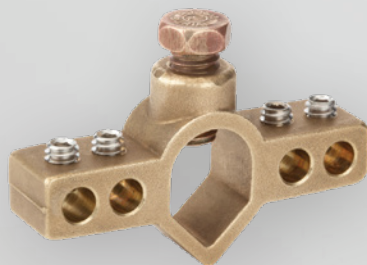
Bridgeport Mighty-Bond enclosure grounding connectors. Made of corrosion resistant brass alloy provide an easy way to ground metal equipment into a knockout. Extended MCC- series design allows for transition to conduit with a coupling. Our tamper proof MC-series prevents removal from outside the box. Large wire range for many feeder and branch circuit grounding applications.



Use Mighty-Bond bridges when additional grounding terminations are needed. Can be installed inside or outside the box. These versatile grounding bridges are assembled with fittings & locknut. Corrosion resistant brass alloy and stainless steel socket head screws provide superior conductivity and durability when properly torqued.



IGB-050 & IGB-075



IGBC-050 and IGBC-075



Mighty-Bond® Ground Bridge Clamps are Listed for use with Ground Rods or Re-bars. Bronze alloy body with Stainless steel socket head screws are suitable for direct burial inter-system grounding of communications.

POLARIS®

Polaris grounding and bonding products provide flexible solutions for a wide range of grounding and bonding applications in the field. Use copper ground connectors for grounding or continuous loop bonding of copper wire in direct burial applications.

GLA Series
GLC Series



SYSTEM & INTERSYSTEM GROUNDING & BONDING

POLARIS®

GROUND CLAMPS

Polaris grounding and bonding products provide flexible solutions for a wide range of grounding and bonding applications in the field. Use to ground conductor to copper water pipe, tubing, ground rods and rebar. UL-listed for direct burial applications.



GLC Series

COMPRESSION C TAPS



CT Series

Use these Polaris C-tap copper main compression connectors to ensure positive all-around compression with low resistance and high pull-out values. Made from high-conductivity copper and rated for 600V applications.

FLEXIBLE BRAID JUMPERS

Polaris grounding and bonding products provide flexible solutions for a wide range of grounding and bonding applications in the field. Use jumper grounding straps for installations involving movement from expansion or contraction.



FS Series

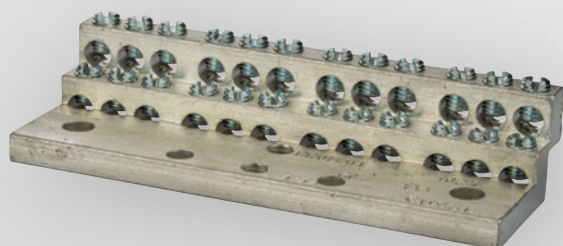


GROUNDING AND BONDING BRIDGES AND BARS

Polaris grounding and bonding products provide flexible solutions for a wide range of grounding and bonding applications in the field. Use intersystem bonding connectors to bond power and communication (phone, cable and satellite) grounding systems.



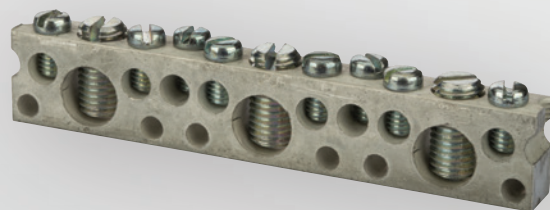
GBIAL Series



1024 Series

Use our neutral bar stacked circuit connectors when you need a compact design with stacked wire holes to minimize width and one-piece construction for superior mechanical performance.

Use comb connector circuits to join different sizes of copper or aluminum conductors, with multiple combination holes for 1/0-14 AWG and 6-14 AWG wires arranged in an economical, compact design of hole spacing.



CB-11

POWER CONNECTORS

POLARIS®

The Original innovator in pre-insulated connectors and have continued to lead the industry with high-quality power connectors. Additionally, our wide offering of uninsulated and mechanical connectors match the needs of any job.

INSULATION PIERCING CONNECTORS

Dual-rated insulation-piercing connectors are a safe, reliable, versatile choice to connect wires without stripping them and without using tape or covers. Can be installed on energized conductors and used as a splice or tap.



IPCS Series

PRE-INSULATED CONNECTORS

Polaris Black multi-tap connectors form secure connections between conductors with a rounded design and UV-resistant insulation coating. Installs with a hex key and torque wrench, with no need for cover and taping.



IT & IPLD Series

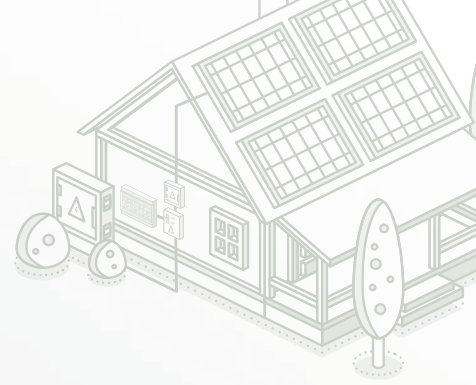


ISPBS & ISPB Series

Polaris Edge multi-tap direct burial connectors form secure connections between conductors and feature a squared-off design and EPDM rubber insulation coating for submersion or direct burial. Installs with just a hex key and torque wrench.

COMPRESSION LUGS & SPLICES

POLARIS®



COMPRESSION LUGS

Polaris compression connectors terminate large, high-current wires safely, with a max voltage rating of 35kV when properly installed. The tin-plated aluminum body, chamfered entry and clear color coding make these lugs easy to use.



AL Series
AL-N Series

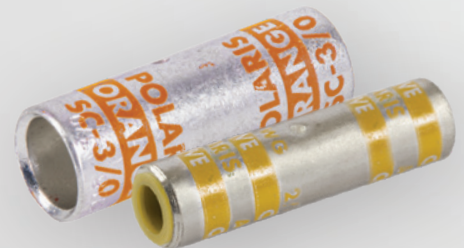


L Series
L-N Series
GL Series
GLN Series

Use these peep hole compression connectors for flexible copper cable. The single flared barrel hole ensures ease of cable insertion, reduced strain on cable strands after installation and protects them from chafing or breaking.

COMPRESSION SPLICES

Use dual-rated aluminum compression splice connectors to join aluminum or copper conductors. Center stop assures proper cable installation while the pre-filled oxide-inhibitor gel guarantees a conductive connection.



ASC-T Series
SC Series
SC-B Series

SUPPLIES



NSI has the high-quality, professional Supplies and solutions for your solar projects. Count on NSI for fast delivery and easy ordering.

EMT AND RIGID/IMC CONDUIT STRAPS AND CLAMP PACKS



One hole universal clamp straps are listed to secure a wide range of cables, conduits & EMT, These unique one piece straps are designed to support two trade sizes and provide space between the conduit and the mounting surface.



UCS-5075 to UCS-150200
(Zinc plated Steel)
UCSS-5075 to UCSS150200
(Stainless steel)
UCSC-5075 to UCSC150200
(Polyolifin Coated)



901-S to 910-S



Bridgeport one-hole rigid straps are used to secure rigid and intermediate metal conduit. Zinc plated steel construction offers a tough, corrosion resistant mounting solution in harsh environments.



Bridgeport one-hole rigid conduit straps are listed to secure rigid and intermediate metal conduits. Malleable iron construction offers strength with excellent impact resistance.



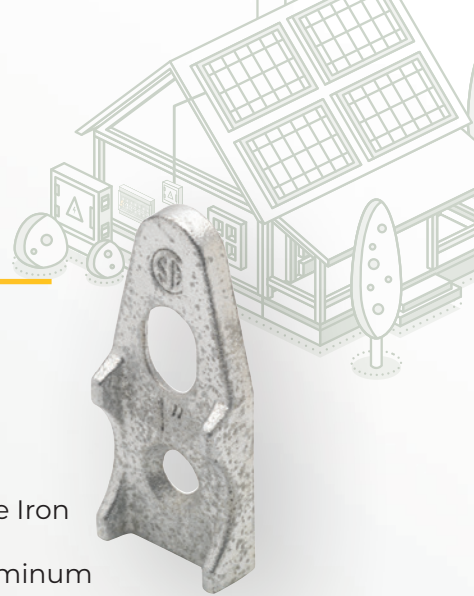
(1/2" to 4")
900 to 910 Malleable Iron
(1/2" to 2")
900-AL to 906-AL
Aluminum

RIGID/IMC CONDUIT STRAPS AND CLAMP BACKS

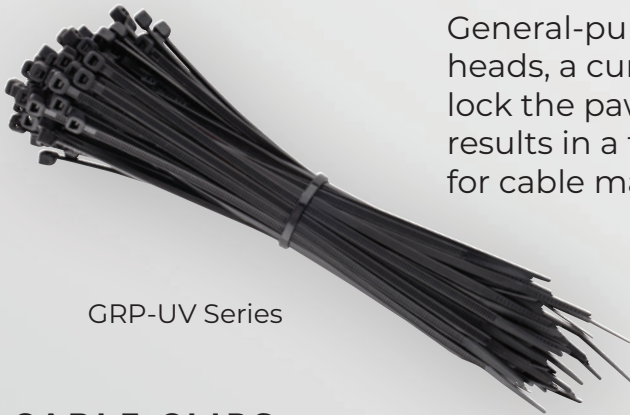


One piece clamp back provide space between the conduit and mounting surface. Designed to accommodate all conduits and EMT.

(1/2" to 4")
941 to 950 Malleable Iron
(1/2" to 2")
941-AL to 946-AL Aluminum



UV STABILIZED CABLE TIES



GRP-UV Series

General-purpose cable ties from NSI feature self-locking heads, a curved tip for faster threading, strong teeth to lock the pawl in place and a nylon 6,6 construction that results in a temperature-resistant, reliably strong solution for cable management.

CABLE CLIPS

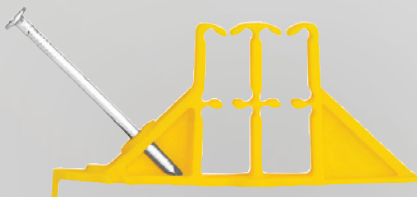


Cable clamps screw into place, creating a secure anchor point. They are a familiar and reliable way to mount individual cables or a cable tie to be used for bundling, these clamps screw into place and hold tight. Available in black or natural nylon color in a range of sizes.



GRP-C Series

CABLE STACKER



ES-YL Series

Increase your productivity with **Easy-Stack** Cable Stackers, the versatile solution for a variety of cable management applications. Install with a nail, staple or screw into wood or metal studs.

WARRIORWRAP®

HEAVY DUTY AND PROFESSIONAL VINYL ELECTRICAL TAPE

We designed **WARRIORWRAP®** electrical tape for electrical industry professionals, with leading adhesion, breaking strength and elasticity. Used for insulating, splicing or marking cables and wires on the jobsite.



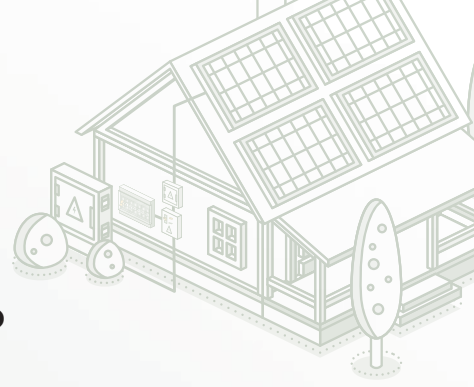
WW-832 Series

Vinyl heavy-duty electrical tapes, 8.5mil thick and designed to stick to uneven surfaces. For splicing, insulating or marking wires in outdoor solar applications.

7mil thick vinyl electrical tapes with durable PVC backing, available in 12 colors rated up to 600V for splicing, insulating or marking wires in many applications.



WW-732 Series



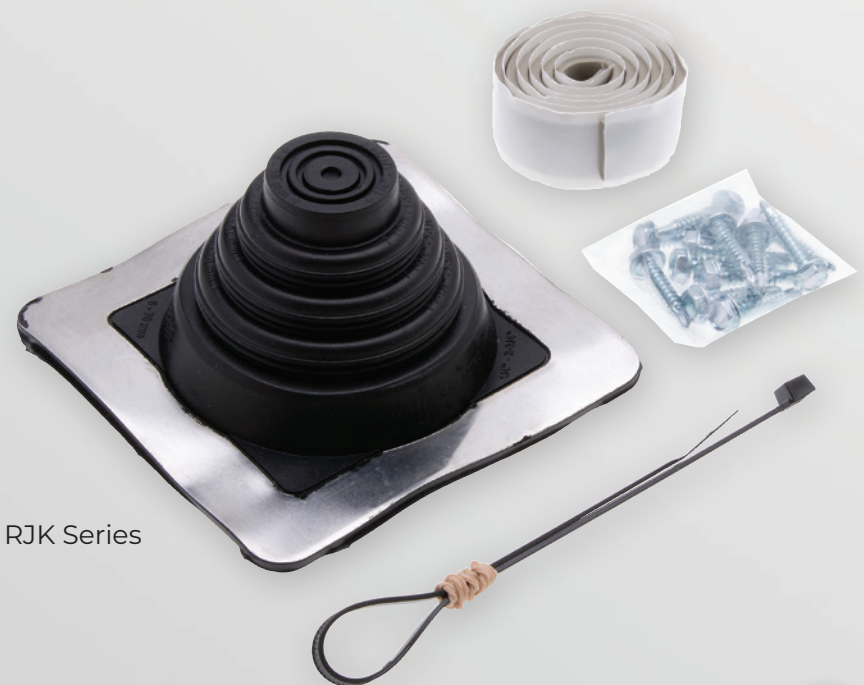
A COMPLETE LINE OF FASTENERS MADE FROM STAINLESS STEEL AND HOT DIPPED GALVANIZED STEEL FOR ANY OUTDOOR APPLICATION.

In addition to a full range of fasteners, **METALLICS** carries other essential products for solar installations. These include Plug-It Conduit Plugs, Gasketed Knock-Out Seals to plug holes in panel boxes and red anchor kits.



ROOF JACK KIT

METALLICS Roof Jack kits make the installation of heating or air conditioning equipment easy. Available in a range of sizes to simplify venting through roofs. Comes with jack, sealant strip, drive screws and a cable tie.



RJK Series



ORDER – SHIPMENT – INVOICE



Get all
your
products
with **ONE**
order



Receive
everything
packed
in **ONE**
shipment



Save time
and money
by only
paying **ONE**
invoice

To order, contact your
local sales representative.

