

## SOLAR INSULATION PIERCING CONNECTOR

### WITH POWERGEL-FILLED COVER FOR PV CABLES UP TO 1.5 kV DC

#### KEY FEATURES

- cUL certified product
- Extremely low leakage current
- Suitable for outdoor applications
- No insulation cutback required
- One-piece connector block with shear bolt technology, halogen-free, and UV-resistant
- Flame retardant - V0 classification
- Use as a tap connector on a mid-span or on a dead-end application
- Adjusts to connection spacing on-site with convenient flexibility

TE Connectivity's (TE) Solar Insulation Piercing Connector with a Powergel-filled cover (GS-IPC) offers protection, insulation and high quality sealing for fast, easy and safe cable connections of PV cables ranging from #10 to 500 Kcmil (6 to 240mm<sup>2</sup>). Size transitions or transitions from copper to aluminum are also possible.

The GS-IPC enclosure, with its revolutionary Powergel sealant, protects and seals the connection quickly and easily, saving both time and effort. Our Powergel sealant is rated to 90°C continuous temperature and is halogen-free with an extended shelf life.

No insulation cutback is required thanks to the insulation piercing technology (IPC). Shear bolts always guarantee the optimum contact force without the use of a torque wrench or other special tools.

The housing is UV-stable and impact-resistant, and comes with a robust hinge and latching mechanism which help to protect against humidity and water.

These connectors have been successfully tested to UL 486A-486B, CSA C22.2 No. 65-03 and applicable UL6703 tests as listed by Underwriters Laboratories Inc., File No. E13288.

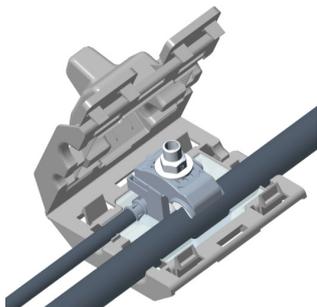
**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**

## Solar Insulation Piercing Connector (GS-IPC)



### TAPPING CONNECTOR FOR MID-SPAN APPLICATION

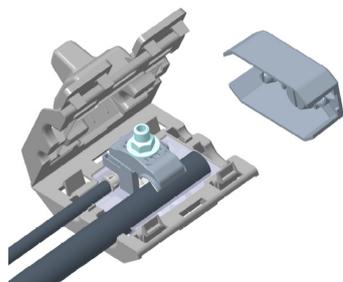
| Description | Part Number | Application Range Main Side AWG (mm <sup>2</sup> )                  | Application Range Tap Side AWG (mm <sup>2</sup> )           | Max Current Load | Weight lbs (gr)      |
|-------------|-------------|---|---|------------------|----------------------|
| GS-IPC-4U   | 2182993-1   | #8 to #4 AWG<br>(10 mm <sup>2</sup> to 25 mm <sup>2</sup> )         | #12 to #10 AWG<br>(4 mm <sup>2</sup> to 6 mm <sup>2</sup> ) | 63 Amps          | 0.5 lbs<br>(227 gr)  |
| GS-IPC-500U | 2182994-1   | 350 and 500 kcmil<br>(185 mm <sup>2</sup> and 240 mm <sup>2</sup> ) | #10 to #6 AWG<br>(6 mm <sup>2</sup> to 16 mm <sup>2</sup> ) | 168 Amps         | 1.15 lbs<br>(522 gr) |



GS-IPC-500U

### DEAD-END CONNECTOR FOR END SEAL APPLICATION

| Description    | Part Number | Application Range Main Side AWG (mm <sup>2</sup> )                  | Application Range Tap Side AWG (mm <sup>2</sup> )           | Max Current Load | Weight lbs (gr)      |
|----------------|-------------|---|---|------------------|----------------------|
| GS-IPC-4U-ES   | 2182993-2   | #8 to #4 AWG<br>(10 mm <sup>2</sup> to 25 mm <sup>2</sup> )         | #12 to #10 AWG<br>(4 mm <sup>2</sup> to 6 mm <sup>2</sup> ) | 63 Amps          | 0.6 lbs<br>(273 gr)  |
| GS-IPC-500U-ES | 2182994-2   | 350 and 500 kcmil<br>(185 mm <sup>2</sup> and 240 mm <sup>2</sup> ) | #10 to #6 AWG<br>(6 mm <sup>2</sup> to 16 mm <sup>2</sup> ) | 168 Amps         | 1.31 lbs<br>(590 gr) |



GS-IPC-500U-ES



WIRE CONNECTOR

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