

Install the three-phase IQ Field Wireable Connectors

Use IQ Field Wireable Connectors with three-phase IQ Cable or field cable to:

- Easily connect three-phase IQ Cables without complex wiring
- Use a mated pair of connectors to end-feed the branch circuit with an AC connection
- Use mated pairs of connectors to connect with a remote part of the array

PREPARATION

Check that you have IQ Field Wireable Connectors for three-phase IQ Cable as needed for your installation. Both female and male connectors are sold in packs of ten:

- IQ Field Wireable Connector for three-phase (female): (Q-CONN-3P-10F)
- IQ Field Wireable Connector for three-phase (male): (Q-CONN-3P-10M)

Make sure you have the following recommended tools:

- Screwdriver blade width 3.5 mm, PH1 screwdriver
- 30 mm wrench

Technical data					
Degree of protection	IP66/IP68 (2m, 24h)				
Nominal current (Observe derating, see graph below)	Conductor cross-section	IEC/EN61984			
	6 mm ²	35 A			
	4 mm ²	32 A			
	2.5 mm ²	24 A			
Nominal voltage		690 V			
Rated surge voltage		6 kV			
Pollution degree		3			
Operating temperature		-40°C to 110°C			
Material		PPE			



140-00147-03

PARTS

FEMALE CONNECTOR PARTS



MALE CONNECTOR PARTS



WARNING: Risk of equipment failure. Do not mix male and female connector parts when assembling connectors.

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ASSEMBLY

Follow the steps to assemble IQ Field Wireable Connectors for three-phase connections.



DISCONNECT (if needed)

To disconnect three-phase IQ Field Wireable Connectors, release the two connectors by pressing down the snap with a screwdriver. You can then separate the connectors.

 \triangle WARNING: Never plug in or disconnect the connectors under load. The connectors are not suitable for interrupting the current.



Enphase article number	Enphase product SKU	Type designation
150-00094	Q-CONN-3P-10F	PRC 5-FC-FS6
150-00093	Q-CONN-3P-10M	PRC 5-FC-MS6

SAFETY

IMPORTANT SAFETY INSTRUCTIONS. SAVE THIS INFORMATION.

Follow all safety and assembly instructions when installing IQ Field Wireable Connectors.

Safety Symbols		
	DANGER : This indicates a hazardous situation, which if not avoided, will result in death or serious injury.	
	WARNING : This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.	
	WARNING : Risk of burn. Failure to follow instructions may result in burn injury.	
\checkmark	NOTE : This indicates information particularly important for optimal system operation.	
Safety Instructions		
	DANGER : Risk of electric shock. Do not use Enphase equipment in a manner not specified by the manufacturer. Doing so may cause death or injury to persons, or damage to equipment.	
	DANGER : Risk of electric shock. Be aware that installation of this equipment includes risk of electric shock. Do not use without first removing AC power from the Enphase System. Disconnect the power coming from the photovoltaics before servicing or installing.	
	DANGER : Risk of electric shock. Risk of fire. Before making any connections, verify that the circuit breakers are in the off position. Double check all wiring before applying power.	
	DANGER : Risk of electric shock. Risk of fire. Only use electrical system components approved for wet locations, including but not limited to conduit fittings.	
	DANGER : Risk of electric shock. Risk of fire. Only qualified personnel should install, troubleshoot, or replace the IQ Field Wireable Connector.	
	DANGER: Risk of electric shock. Improper use of the IQ Field Wireable Connector or its components may result in a shock, fire or explosion. To reduce these risks, discon- nect all wiring before attempting any maintenance.	

	DANGER : Risk of electric shock. Risk of fire. Ensure that all AC and DC wiring is correct and that none of the AC wires are pinched, shorted, or damaged.
	DANGER: Risk of electric shock. Risk of fire. Do not at- tempt to repair or alter the IQ Field Wireable Connector.
	DANGER : Risk of electric shock. Risk of fire. Make sure the conductors are not damaged. If the exposed wires are damaged, the system may not function properly.
	WARNING : Risk of equipment damage. Enphase male and female connectors must only be mated with the matching male/female connector.
	WARNING : Risk of equipment damage. This product is intended for operation with a maximum operating temperature of 110°C.
\triangle	WARNING : When installing the cabling, secure any loose cable to minimize tripping hazard.
	WARNING : Before installing or using the IQ Field Wireable Connector, read all instructions and cautionary markings in the technical description, on the Enphase System, and on the photovoltaic (PV) equipment.
\land	WARNING : Never plug in or disconnect the connectors under load. The connectors are not suitable for interrupting the current.
\wedge	WARNING: Without earthing connection.
\checkmark	NOTE : Maintenance and cleaning must be performed by qualified personnel.
\checkmark	NOTE : Using unapproved attachments or accessories may result in damage or injury.
\checkmark	NOTE : When looping the IQ Cable, do not form loops smaller than 12 cm in diameter.
\checkmark	NOTE : Perform all electrical installations in accordance with all applicable local electrical codes.
\checkmark	NOTE : To ensure optimal reliability and to meet warranty requirements, install the IQ Field Wireable Connectors according to the instructions in this guide.
\checkmark	NOTE : Protection against lightning and resulting voltage surge must be in accordance with local standards.
\checkmark	NOTE : The connector is considered to be in compliance only when assembled in the manner specified by these assembly instructions.
\checkmark	NOTE : For flexible wires, we recommend using ferrules account to DIN 46228 that are crimped with jointing clamp.
\checkmark	 NOTE: Cable used with IQ Field Wireable Connectors must meet the following requirements: Min/max outer insulation diameter (including the clear second insulator): 8 mm/21 mm Wire size: 2.5 mm² to 6 mm²

Safety Instructions

Note for third-party products: Any third-party manufacturer or importer product(s) used to install or commis-sion Enphase product(s) shall comply with the applicable EU Directive(s) and requirements in the EEA (European Economic Area). It is the responsibility of the installer to confirm that all such products are labelled correctly and have the required compliant supporting documentation.

Compliance with EU Directives This product complies with the following EU Directives and can be used in the European Union without any restrictions.

- Low voltage directive (LVD) 2014/35/EU
 Restriction of hazardous substances (RoHS) 2011/65/EU

The full text of the EU declaration of conformity (DoC) is available at the following internet address https://enphase.com/en-gb/installers/resources/ documentation.

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Revision history

REVISION	DATE	DESCRIPTION
140-00147-03	June 2023	Updated the document for product names and editorial changes.