QD Cable and accessories

The **Enphase QD Cable** and accessories are integral parts of the IQ8 Commercial Microinverter based PV system for grid-tied, three-phase 208 V PV applications.

The QD Cable works with the Enphase IQ8 Commercial Microinverter and provides self-phase balancing and neutral sensing for phase loss protection.



Reliable

- · Neutral sensing for phase loss protection
- · Locking-type connectors
- Rated for outdoor, wet environments, sunlight resistance, and oil resistance

Easy

- · Self-phase balancing
- · Lightweight and simple for fast installation
- · Modularly expandable
- Reduction in balance-of-system costs and installation time
- Phase ID marked on QD Cable connectors for easy identification (C1: L1-L2, C2: L2-L3, and C3: L3-L1 sequentially)
- Separate center feeding connector in all AC branch circuit cabling SKUs for maintaining <1% voltage rise with easy plug-and-play installations

Field Wireable QD Connectors

- Easily connect QD Cables on the roof without complex wiring
- · Available as male and female connector types
- UL Listed



QD Cable and accessories

CONDUCTOR SPECIFICATIONS QD Cable 4 conductors 12 AWG Outer diameter 11.5 mm 600 V (connector rating up to 277 VAC) Voltage rating Certification UL3003 (raw cable), UL 9703 (cable assemblies), and DG cable Max. AC conductor resistance (20°C) 12 AWG 5.43 Ω/km (Ω/km) FT4 Flame test rating Compliance RoHS, OIL RES I, CE, UV resistant, and combined UL for the United States Conductor type THHN/THWN-2 dry/wet

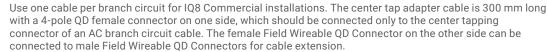
QD CABLE TYPES

Connectorized models	Size/Max. nominal voltage	Connector spacing	PV module orientation	Connector count per box
QD-12-13-120	12 AWG / 277 VAC	1.7 m (5.6 ft)	Portrait	120
QD-12-20-120	12 AWG / 277 VAC	2.4 m (7.9 ft)	Landscape	120
QD-12-25-108	12 AWG / 277 VAC	2.9 m (9.5 ft)	Landscape	108

QD CABLE ACCESSORIES

Name	Model number	Description
Raw QD Cable	QD-12-RAW-300	300 m (984.2 ft) of 12 AWG cable with no connectors
Field Wireable QD Connector (male)	QD-CONN-10M	Male field-wireable AC connector for Raw QD Cable; pack of 10 connectors
Field Wireable QD Connector (female)	QD-CONN-10F	Female field-wireable AC connector for Raw QD Cable; pack of 10 connectors
QD Disconnect Tool	QD-DISC-10	QD Disconnect Tool for QD Cable connectors, DC connectors, and AC Module mount; pack of 10 connectors
QD Sealing Caps (female)	QD-SEAL-10	One required to cover each unused connector on the cabling; pack of 10 connectors
QD Cable Clip	ET-CLIP-100	Used to fasten cabling to the racking or to secure looped cabling; pack of 10 connectors
QD Terminator	QD-TERM-10	Terminator for unused cable ends; pack of 10 terminators
QD Center Tap Adapter Cable	QD-LINKFW-10	Center tap adapter cable for center feeding of AC branch circuit when using QD-12-42-63; pack of 10 adapter cables

	Field Wireable QD Connector (male)	Field Wireable QD Connector (female)	
	Male field-wireable AC connector; sold in packs of ten (QD-CONN-10M)	Female field-wireable AC connectors sold in packs of ten (QD-CONN-10F)	
	QD Terminator	QD Sealing Caps	
	Terminator cap for unused cable ends; sold in packs of ten; center feed requires two per branch (QD-TERM-10)	Female sealing caps for unused cable connections; sold in packs of ten (QD-SEAL-10)	
4 1	QD Disconnect Tool	QD Cable Clip	
***	Plan to use at least one per installation; sold in packs of ten (QD-DISC-10)	Used to fasten cabling to the racking or to secure looped cabling; sold in packs of one hundred (ET-CLIP-100)	
	QD Center Tap Adapter Cable		





Revision history

REVISION	DATE	DESCRIPTION
DSH-00251-2.0	January 2024	Updated the "QD Cable Types" table.
DSH-00251-1.0	November 2023	Initial release.
Previous releases		

To learn more about Enphase offerings, visit enphase.com