Data Sheet Enphase QD Cable and accessories REGION: Americas

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

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QD-12-RAW-300-DSH-00251-3.0-EN-US-2024-03-04

QD Cable and accessories

QD Center Tap Adapter Cable

CONDUCTOR SPECIFICATIONS					
QD Cable	4 conductors 12 AWG				
Outer diameter	11.5 mm				
Voltage rating	600 V (connector rating up to 277 VAC)				
Certification	UL3003 (raw cable), UL 9703 (cable assemblies), and DG cable				
Max. AC conductor resistance (20°C) (Ω/km)	12 AWG 5.43 Ω/km				
Flame test rating	FT4				
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 Cable Terminator	QD-TERM-10	Terminator for unused cable ends; pack of 10 terminators			

	Field Wireable QD Connector (male)	Field Wireable QD Connector (female)	
6	Male field-wireable AC connector; sold in packs of ten (QD-CONN-10M)	Female field-wireable AC connector; sold in packs of ten (QD-CONN-10F)	
	QD Cable 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)	
1.1	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		
-	with a 4-pole female Field Wireable QD Connector on o	emale Field Wireable QD Connector on the other side can	

Center tap adapter cable for center feeding of the AC branch circuit

QD-LINKFW-10



Revision history

REVISION	DATE	DESCRIPTION	
DSH-00251-3.0	March 2024	Updated the "QD Cable Accessories" information.	
DSH-00251-2.0	January 2024	Updated the "QD Cable Types" information.	
DSH-00251-1.0	November 2023	Initial release.	
Previous releases.			

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