

## Q Cable and IQ Micro Accessories





The IQ Microinverter system uses the new Q Cable with only two conductors, resulting in a more lightweight and flexible product. This UL3003 listed DG (Distributed Generation) cabling system is purpose designed for the application, and uses the following new accessories, which are not compatible with earlier Enphase cabling systems.

### Q CABLE TYPES / ORDERING OPTIONS

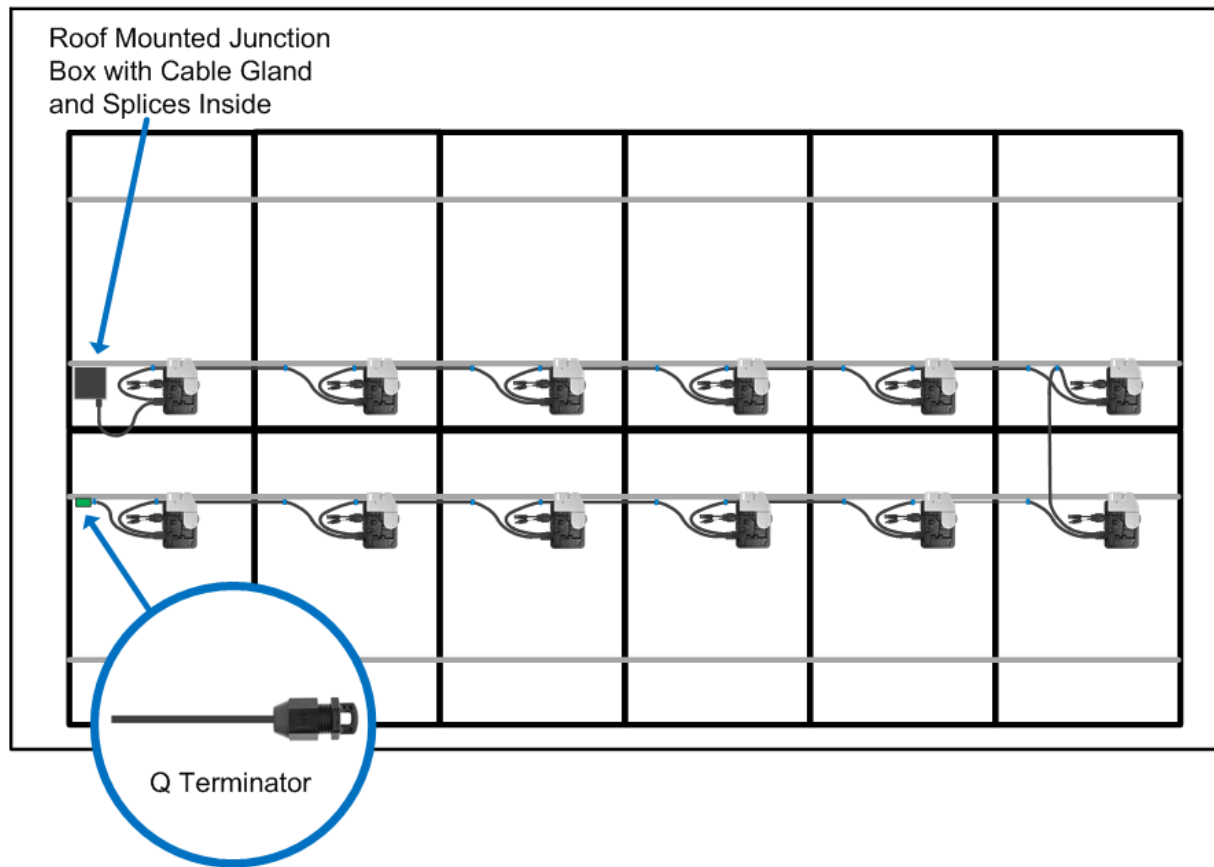
Model Number	Max Nominal Voltage	Connector Spacing	PV Module Orientation	Connector Count per Box
Q-12-10-240	250 VAC	1.3 m (4.2 ft)	Portrait	240
Q-12-17-240	250 VAC	2.0 m (6.5 ft)	Landscape (60-cell)	240
Q-12-20-200	250 VAC	2.3 m (7.5 ft)	Landscape (72-cell)	200

### ENPHASE Q CABLE ACCESSORIES

Name	Model Number	Description
Enphase Q Aggregator	Q-BA-3-1P-60	Combines up to three microinverter branches into one home run.
Field-wireable connector (male)	Q-CONN-10M	Make connections from any Q Aggregator open connector
Field-wireable connector (female)	Q-CONN-10F	Make connections from any Q Cable open connector
Cable clip	Q-CLIP-100	Used to fasten cabling to the racking or to secure looped cabling
Disconnect tool	Q-DISC-10	Disconnect tool for Q Cable connectors, DC connectors, and AC module mount
Q Aggregator sealing caps (male)	Q-BA-CAP-10	Sealing cap for unused aggregator connections
Q Cable sealing caps (female)	Q-SEAL-10	One needed to cover each unused connector on the cabling
Terminator	Q-TERM-10	Terminator cap for unused cable ends
Replacement DC Adaptor (MC4)	Q-DCC-2	DC adaptor to MC4 (max voltage 100 VDC)
Replacement DC Adaptor (UTX)	Q-DCC-5	DC adaptor to UTX (max voltage 100 VDC)

	<b>TERMINATOR</b> Terminator cap for unused cable ends, sold in packs of ten (Q-TERM-10)		<b>SEALING CAPS</b> Sealing caps for unused aggregator and cable connections (Q-BA-CAP-10 and Q-SEAL-10)
	<b>DISCONNECT TOOL</b> Plan to use at least one per installation, sold in packs of ten (Q-DISC-10)		<b>CABLE CLIP</b> Used to fasten cabling to the racking or to secure looped cabling, sold in packs of ten (Q-CLIP-100)

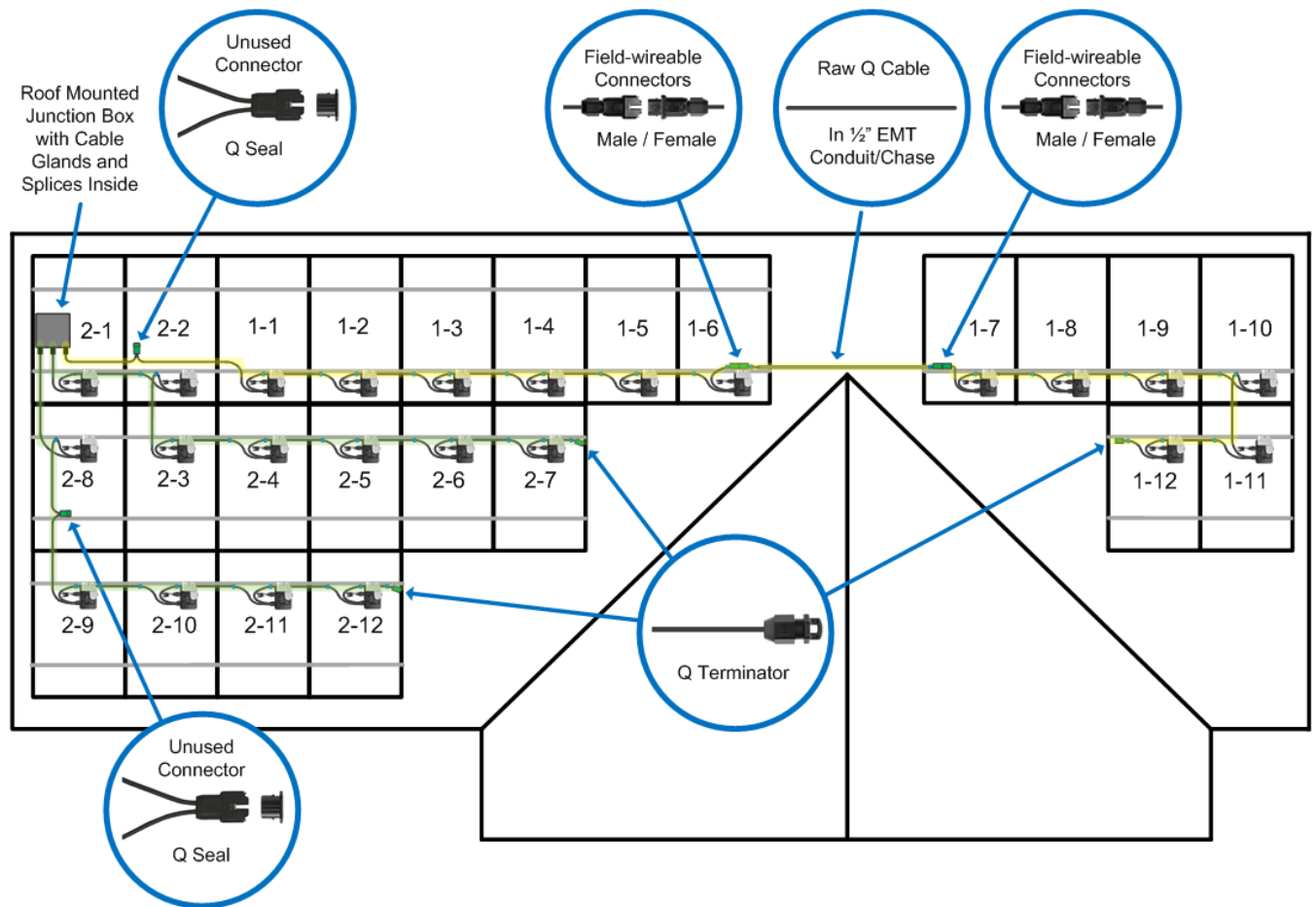
### Scenario 1: Simple 12 Module Scenario



#### Bill of Materials for Scenario 1: Simple 12 Module Scenario

QTY	Part Number	Description
12	IQ6PLUS-72-2-US	Enphase IQ 6+ Microinverter, compatible with 60- and 72-cell PV modules, 290VA peak power, MC4 DC connectors, female AC connector
12 of 240	Q-12-10-240	Q Cable for 60/72 cell 1.0m portrait module pitch. Connector pitch is 1.3m. 240 Male connectors plus two bonus link connectors
0 of 10	Q-SEAL-10	Female sealing cap for unused Q Cable connectors. Pack of 10
1 of 10	Q-TERM-10	Q Terminator for Q Cable ends. Center feed requires two per branch. Pack of 10
21 of 100	Q-CLIP-100	Q Cable rail mount cable management clip. Pack of 100
1 of 10	Q-DISC-10	Disconnect tool for Q Cable connectors, MC and Amphenol DC connectors, and AC module mount. Pack of 10
1	X-IQ-AM1-240-B M	Enphase IQ Combiner with IQ Envoy, 60A, single phase, revenue grade accuracy (ANSI C12.20 +/- 0.5%) with calibrated solid-core CT

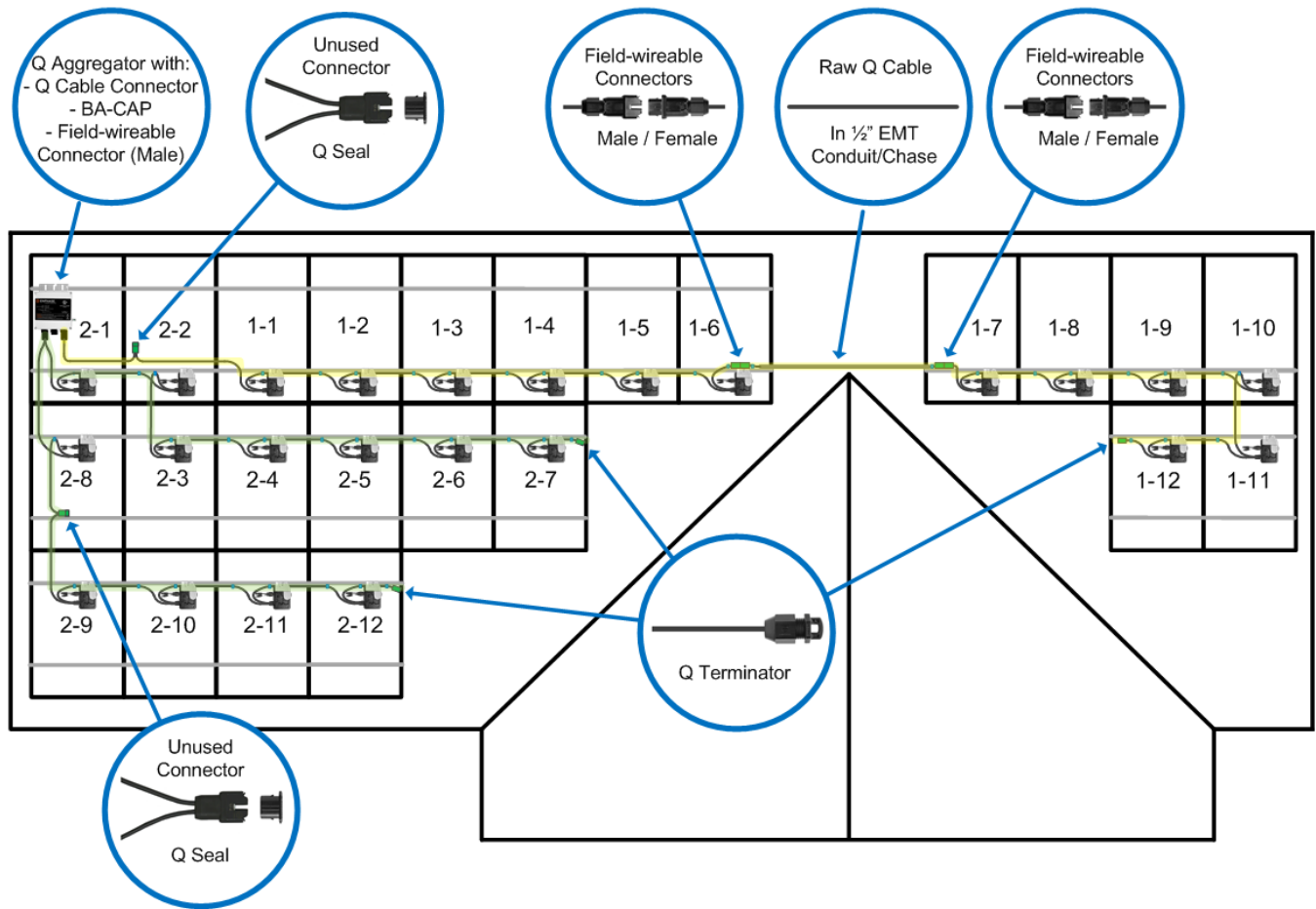
## Scenario 2: 24 Module, Two Strings of 12, Terminated at Junction Box



### Bill of Materials for Scenario 2: 24 Modules, Two Strings of 12 Terminated at Junction Box

QTY	Part Number	Description
24	IQ6PLUS-72-2-US	Enphase IQ 6+ Microinverter, compatible with 60- and 72-cell PV modules, 290VA peak power, MC4 DC connectors, female AC connector
26 of 240	Q-12-10-240	Q Cable for 60/72 cell 1.0m portrait module pitch. Connector pitch is 1.3m. 240 Male connectors plus two bonus link connectors
2 of 10	Q-SEAL-10	Female sealing cap for unused Q Cable connectors. Pack of 10
3 of 10	Q-TERM-10	Q Terminator for Q Cable ends. Center feed requires two per branch. Pack of 10
47 of 100	Q-CLIP-100	Q Cable rail mount cable management clip. Pack of 100
1 of 10	Q-DISC-10	Disconnect tool for Q Cable connectors, MC and Amphenol DC connectors, and AC module mount. Pack of 10
1	X-IQ-AM1-240-B M	Enphase IQ Combiner with IQ Envoy, 60A, single phase, revenue grade accuracy (ANSI C12.20 +/- 0.5%) with calibrated solid-core CT

### Scenario 3: 24 Module, Two Strings of 12, Terminated at Q Aggregator



#### Bill of Materials for Scenario: 24 Modules, Two Strings of 12 Terminated at Q Aggregator

QTY	Part Number	Description
24	IQ6PLUS-72-2-US	Enphase IQ 6+ Microinverter, compatible with 60- and 72-cell PV modules, 290VA peak power, MC4 DC connectors, female AC connector
27 of 240	Q-12-10-240	Q Cable for 60/72 cell 1.0m portrait module pitch. Connector pitch is 1.3m. 240 Male connectors plus two bonus link connectors
2 of 10	Q-SEAL-10	Female sealing cap for unused Q Cable connectors. Pack of 10
3 of 10	Q-TERM-10	Q Terminator for Q Cable ends. Center feed requires two per branch. Pack of 10
47 of 100	Q-CLIP-100	Q Cable rail mount cable management clip. Pack of 100
1 of 10	Q-DISC-10	Disconnect tool for Q Cable connectors, MC and Amphenol DC connectors, and AC module mount. Pack of 10
1	Q-BA-3-1P-60	Single-phase branch aggregator, One to three female inputs, 60A max 2L+PE output. Includes one Q-BA-CAP
1 of 10	Q-BA-CAP-10	Male sealing cap for Branch Aggregator and microinverter AC bulkhead. Pack of 10
1	ENV-IQ-AM1-240 M	Enphase IQ Envoy, single phase, metered. Revenue grade accuracy (ANSI C12.20 +/- 0.5%) with calibrated solid-core CT