

Spring Clamp Terminal Block Conversion Adapter

Model: FA1-TE40PA

New Product Release No. 20-06E

Quick and easy wiring, offering innovative solution

Easy wiring

Stable connection

Less maintenance

Spring clamp terminal block can be used to reduce wiring time

Easy push-in connection

Front connection enabled for connector type modules to reduce installation space

Applicable series

MELSEC iQ-R series

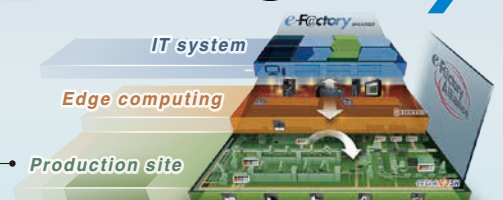
MELSEC Q series

MELSEC L series

FA Goods Products

e-F@ctory

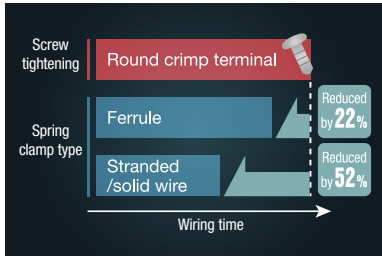
Wire-saving and process time reduction



Front connection type now available in addition to the existing relay terminal block, which is used together with a digital signal converter

Features of spring clamp terminal specification

Easy wiring



Wiring time can be significantly reduced by push-in connection.

* Calculated by comparing the time taken by non-experts with two years of experience (Data sourced from Japan Switchboard & control system Industries Association)

Stable connection



Screws are vibration resistant. Uniform quality is guaranteed for wiring since no special skills are required.

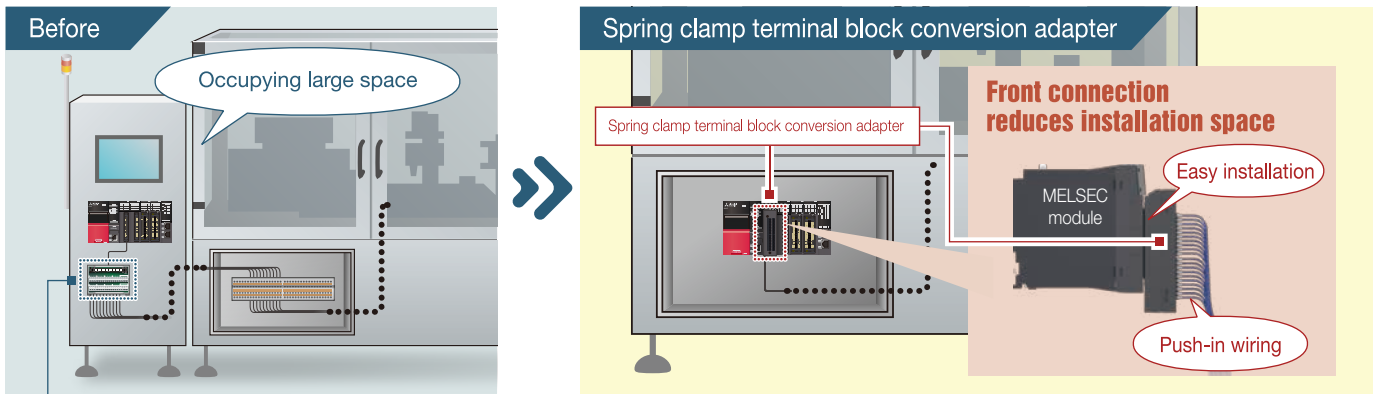
Less maintenance



Screw tightening during maintenance is not required, reducing work load of workers. Rewiring work is also facilitated by push-in connection.

Easy push-in connection available in limited space

Front connection does not require any separate terminal block, enabling installation in a small cabinet or inside a system.



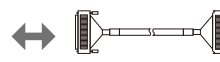
Alternative for users who have no space problem

Use our spring clamp type relay terminal block for programmable controllers.

(For details, refer to the product list on the back cover page.)



MELSEC module (connector type)



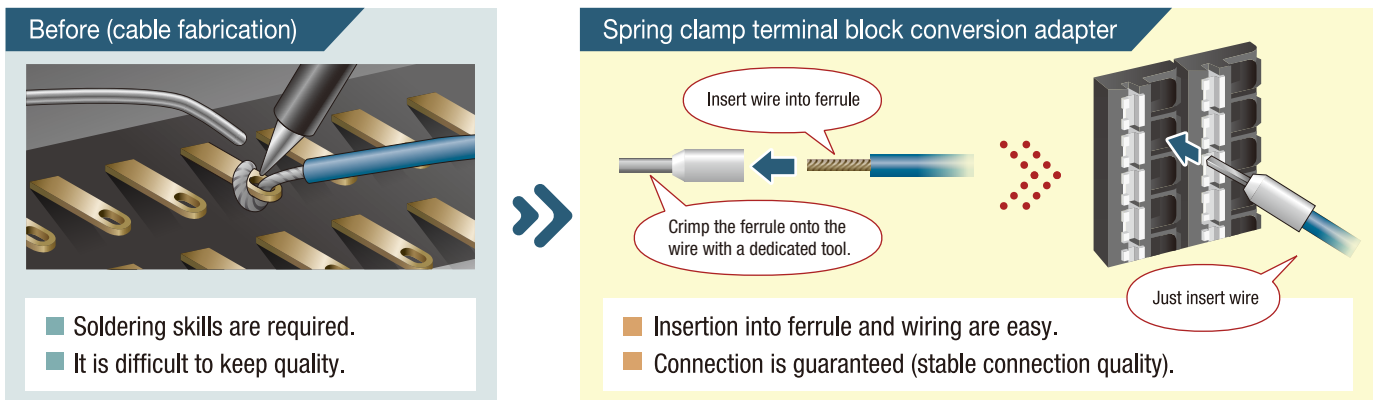
Connection cable



Spring clamp type relay terminal block for programmable controllers

Quick and easy wiring and reliable quality

Uniform connection quality is guaranteed since no soldering skills are required.

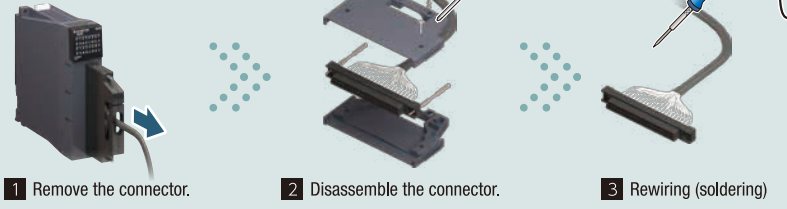


Easy to add signals with various wire sizes supported

Signal wires can be rewired easily for extension or repair of systems. The spring clamp type supports large wire sizes.

Before (40-pin connector)

Addition or rewiring



1 Remove the connector.

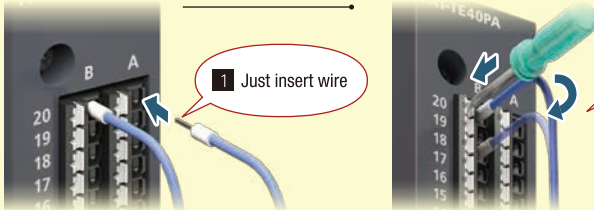
2 Disassemble the connector.

3 Rewiring (soldering)

Spring clamp terminal block conversion adapter

Addition

Rewiring



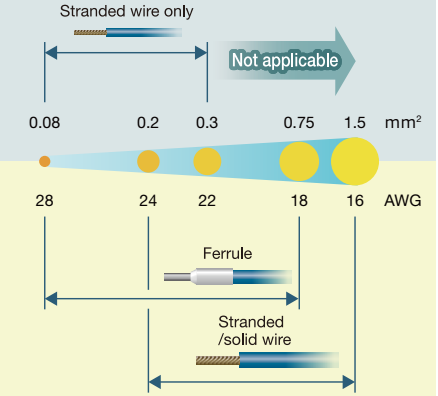
1 Just insert wire

1 Push the release button and reinsert the wire

Just a single step

Applicable wire sizes

Before (40-pin connector)

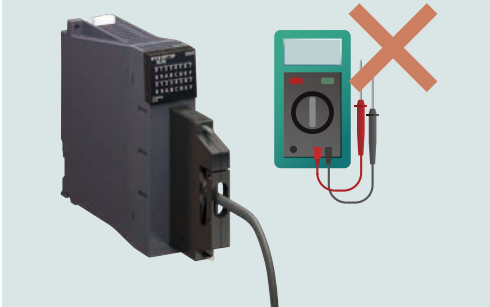


Spring clamp terminal block

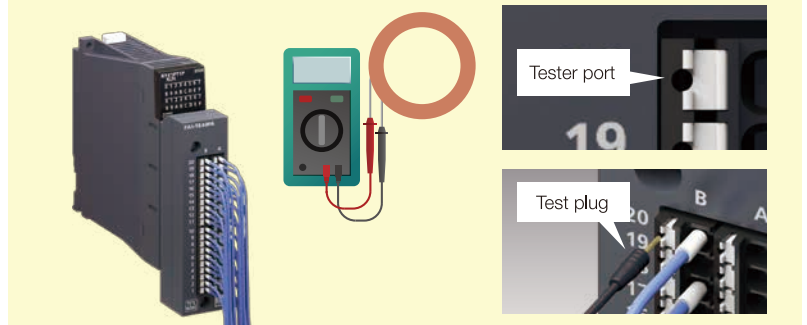
Streamline startup and maintenance

A tester port is provided for continuity check, enabling reduction in time required for startup and maintenance. (The test plug is the reference product.)

Before (40-pin connector)



Spring clamp terminal block conversion adapter

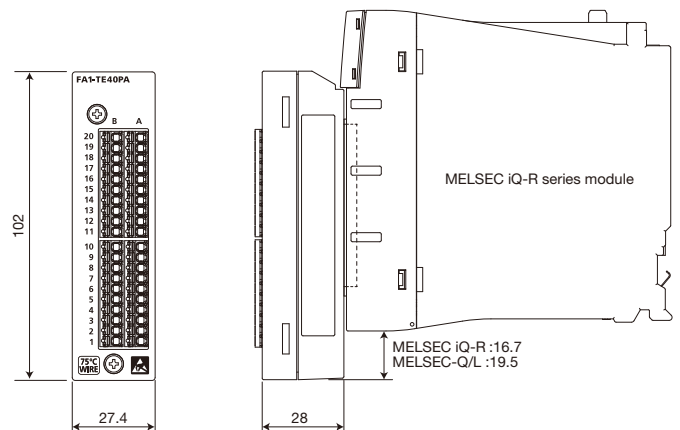


■ Connection diagram

Spring clamp terminal block	40-pin connector	Spring clamp terminal block	40-pin connector
B20	B20	A20	A20
B19	B19	A19	A19
B18	B18	A18	A18
B17	B17	A17	A17
B16	B16	A16	A16
B15	B15	A15	A15
B14	B14	A14	A14
B13	B13	A13	A13
B12	B12	A12	A12
B11	B11	A11	A11
B10	B10	A10	A10
B9	B9	A9	A9
B8	B8	A8	A8
B7	B7	A7	A7
B6	B6	A6	A6
B5	B5	A5	A5
B4	B4	A4	A4
B3	B3	A3	A3
B2	B2	A2	A2
B1	B1	A1	A1

■ Dimensions

Schematic diagram of connection to MELSEC IQ-R series module (Unit: mm)




■ Applicable modules of Mitsubishi Electric MELSEC series programmable controllers

MELSEC series	Input module		Output module		High-speed counter module	Positioning module	
MELSEC iQ-R series	RX41C4 RX41C6HS	RX61C6HS RX71C4	RY41NT2P RY41PT1P	RY41NT2H RY41PT2H	RD62P2 RD62P2E RD62D2	RD75P2	
MELSEC-Q series	QX41 QX41-S1 QX41-S2	QX71	QY41P QY41H	QY71	QD62 QD62E QD62D	QD63P6 QD64D2	QD75P1/QD75P1N QD75D1/QD75D1N QD75P2/QD75P2N QD75D2/QD75D2N QD70P4
MELSEC-L series	LX41C4		LY41NT1P LY41PT1P		LD62 LD62D		LD75P1 LD75D1 LD75P2 LD75D2

■ Specifications

Item	Specification				
Operating ambient temperature	0 to 55°C (when the extended temperature range base unit is not used) 0 to 60°C (when the extended temperature range base unit is used)				
Operating ambient humidity	5 to 95%RH, non-condensing				
Applicable wire	Without ferrule (stranded/solid wire)	0.2 to 1.5 mm ² (24 to 16 AWG)			
		Applicable wire size (mm ² /AWG)	Applicable ferrule	Crimping tool	Manufacturer
	With ferrule (stranded wire)	0.25 / 24	Al 0,25-8 YE	CRIMPFOX 6	PHOENIX CONTACT GmbH & Co. KG
		0.3, 0.34 / 22	Al 0,34-8 TQ		
		0.5 / 20	Al 0,5-8 WH		
		0.75 / 18	Al 0,75-8 GY		
		0.08 to 0.34 / 28 to 22	216-302	206-220	WAGO Kontakttechnik GmbH & Co. KG
		0.34 / 24, 22	216-302	206-1204	
0.5 / 22, 20	216-201				
	0.75 / 20, 18	216-202			
External dimensions	27.4 (W) × 102 (H) × 28 (D) mm				
Weight	Approx. 100 g				

■ Reference product

Item	Specification
Name	Test plug
Model	MPS-MT 1-S
Manufacturer	PHOENIX CONTACT GmbH & Co. KG
Shape	
Test pin	Dia. 1.0 mm
Socket*	Dia. 2.0 mm
Cable length	150 mm

* Socket to insert the test lead of the tester

■ Product line

Name	Model	Remarks
Spring clamp terminal block conversion adapter	FA1-TE40PA	Adapter, mounting bracket, mounting screws

■ Product list

Name	Model	Remarks
Spring clamp type relay terminal block for programmable controllers	FA1-TE1S32XY	32 points, horizontal type
	FA1-TEV32XY	32 points, vertical type
Connection cable*	FA-CBL05FMV	For sink/source interface
	FA-CBL05FMVE	For negative common input

* These are a few examples of connection cables. Various cables such as ones with different lengths, sink/source type cables, and branch cables are also available. Cable models depend on the applicable programmable controllers or cable lengths. For details, check our website or selection tool.

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