

Junction Terminal Block Spring Clamp Terminal Type

16/20/32/40 points, common terminal block

New Product Release | No. 23-01E

Improved building work of control panel

Time and wire saving

Less cost and time
for wiring by using
a dedicated cable

Various products available

Wide variety
of connection devices

Space saving

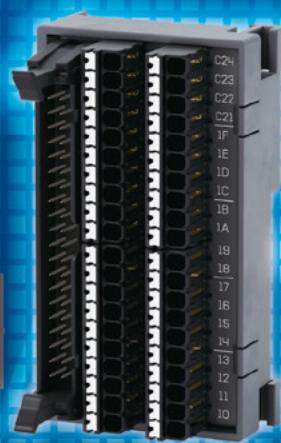
Effective use
of space
in the control panel

A junction terminal block
can be installed vertically and
horizontally on the DIN rail



MELSEC iQ-R series
Input module
40-pin connector
RX41C4

FAgoods
dedicated cable
FA-CBL**FMV



FAgoods junction terminal block
Input/output 32 points, 24VDC



FA1-TE2SD32XY

FAgoods Products



e-F@ctory

IT system

Edge computing

Production site



Source: Mitsubishi Electric Corporation

Supporting innovative solutions for control panel setup

Features of spring clamp terminal specification

Easy wiring

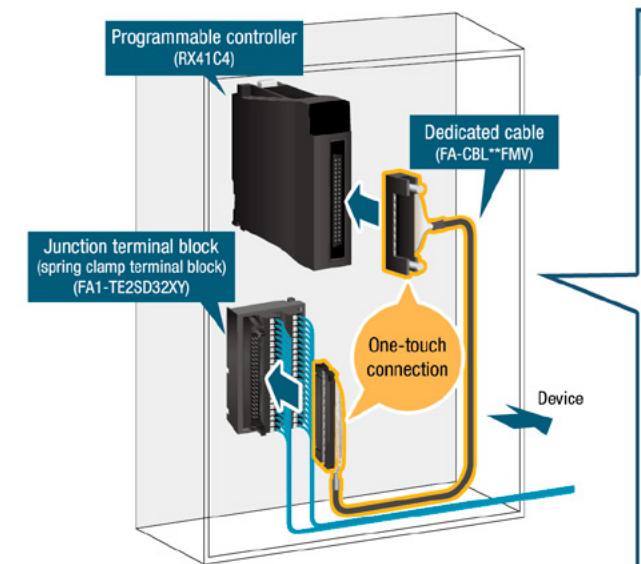
Wiring time can be significantly reduced by push-in connection.
* Calculated by comparing the time taken by non-experts with two years of experience (Data sourced from Japan Switchboard & control system Industries Association)

Stable connection

Less maintenance

Less cost and time for wiring by using a dedicated cable

Dedicated cables with connectors supporting each connected device are available. Using a dedicated cable reduces wiring time required for each point.



Using a dedicated cable easily reduces wiring time.

	Number of points	Wiring time	Wiring time
Spring clamps on both sides	32	About 16 minutes* (about 30s/point)	Approx. 12s Reduced by approx. 99%
Screws on both sides	32	About 19 minutes* (about 35s/point)	

*Result of in-house testing

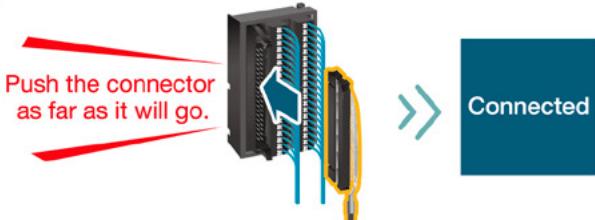
Wiring image (when a 32-point module is used)

► Connecting to the programmable controller side (FCN connector)

1) Insert the connector. 2) Fix two locations.

► Connecting to the terminal block side (MIL connector)

1) Insert the connector.



No need for wiring check



Wiring check per point, which is required for constructed cables, is not required.

Cable length customization



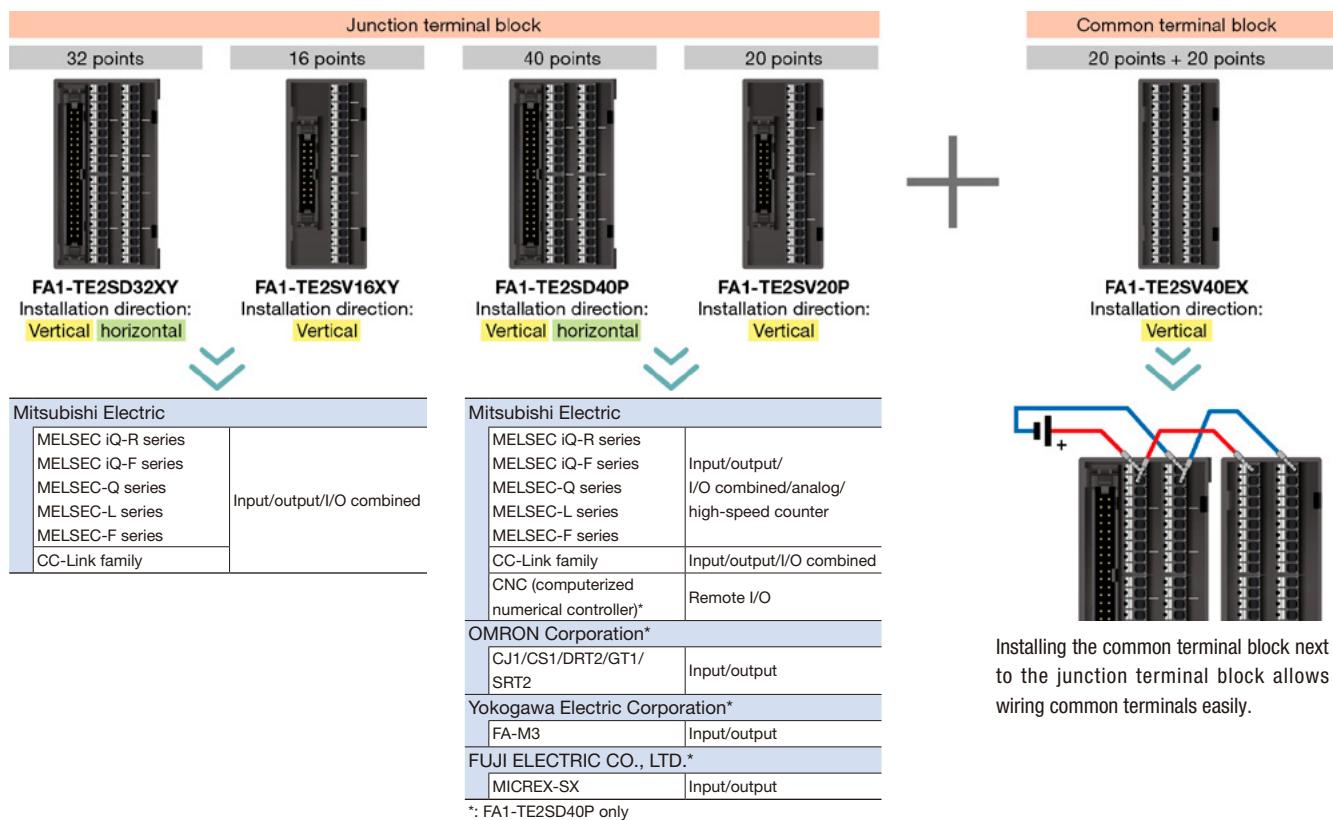
The cable length can be customized.

(For applicable cables and the maximum cable length, please consult your local Mitsubishi representative.)

MELSEC series programmable controllers, CNCs, non-Mitsubishi PLCs are supported

Various programmable controller modules and CNCs are available.

Lineup

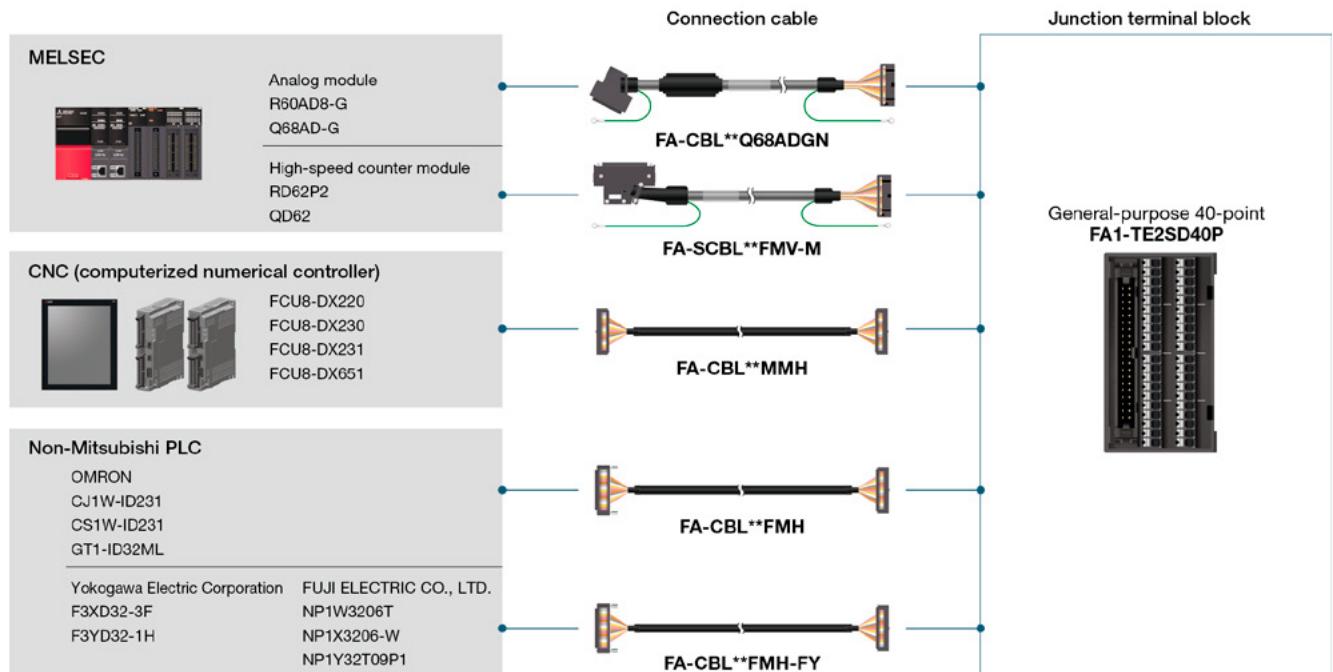


More connection destinations available by using suitable cables

Various connection cables connecting MELSEC series modules, CNCs (computerized numerical controllers), and non-Mitsubishi PLCs are available. Using a cable that supports a connected device achieves the following: "Expanding usage" and "Reducing wiring time with one-touch connection"

[Connection example using 40-point junction terminal block]

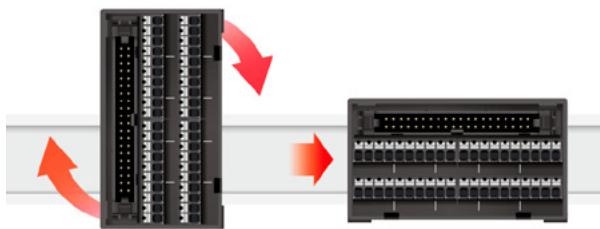
The following connected devices are used as an example. For details, refer to the selection charts on pages 6 to 9.



Effective use of space in the control panel

To use dead space in the control panel, the junction terminal block can be installed in both vertical and horizontal positions. Space above and below the DIN rail, which can often be dead space, is effectively used by installing the junction terminal block in the vertical position.

One junction terminal block offers vertical and horizontal installation positions



It is needed to select a junction terminal block in accordance with the installation position, but now one junction terminal block supports the both installation positions (vertical and horizontal positions).

Model: FA1-TE2SD40P, FA1-TE2SD32XY

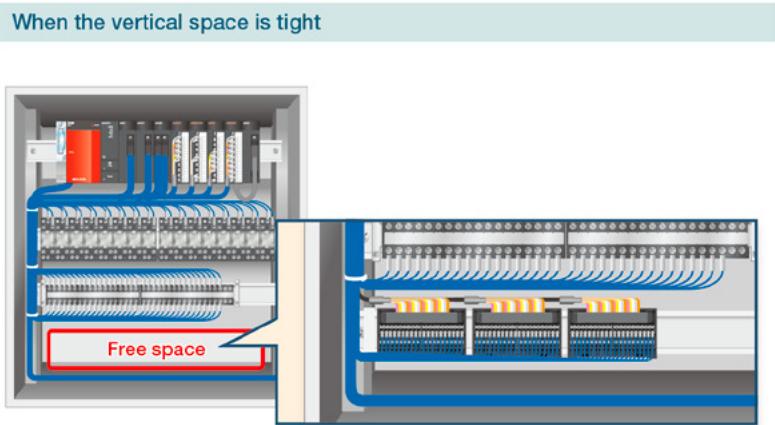
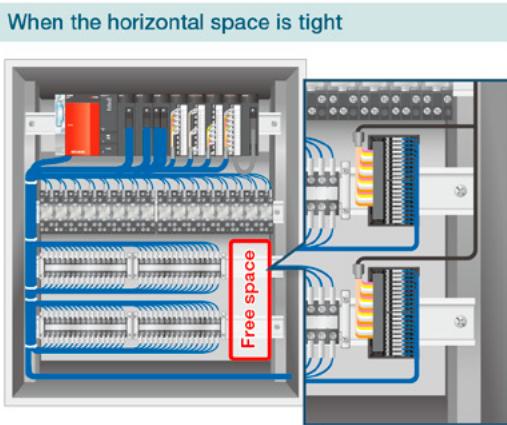
Effective use of dead space in the control panel



The installation width is reduced by approx. 67% (vertical type) and approx. 40% (horizontal type) comparing to our screw terminal block (7mm pitch).

Model: FA1-TE2SD40P, FA1-TE2SD32XY

Installation according to space in the control panel

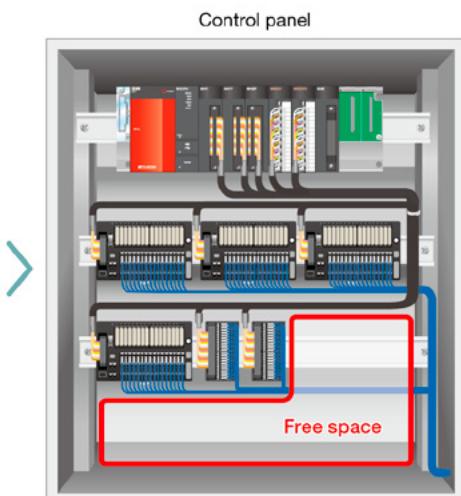
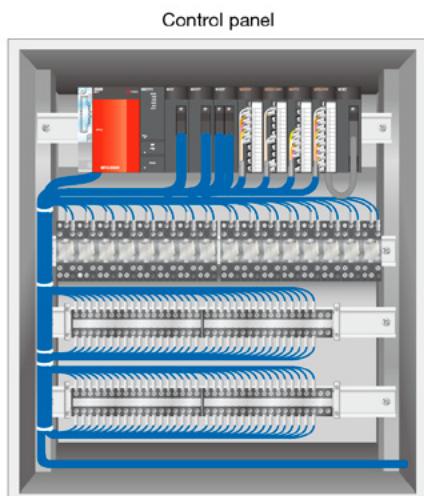


Have you had trouble with installing or relocating the modules in the control panel, and have you placed the modules in the side space of the control panel or on the doors?

A terminal block that offers a choice of installation positions allows you to use dead space.

Also, you just need to order one model so that it will enhance the maintainability.

Organizing the inside of the control panel neatly using the spring clamp terminal type



Replacing junction terminal blocks (screw terminal type on the both sides) and single relay modules with spring clamp terminal type junction terminal blocks makes free space. Thus, the modules do not need to be installed in the side space of the control panel or on the inside of the doors when relocating the modules in the control panel.

All devices in the control panel support the spring clamp terminal type products manufactured by Mitsubishi Electric group

To build a control panel, all devices can be selected from Mitsubishi Electric group ones, for example, control devices and end devices such as terminal blocks and sensors.

Mitsubishi Electric group offers a wide selection of products, supports building a control panel, and leads to smart factory.

▼ Products manufactured by Mitsubishi Electric



▼ Products manufactured by Mitsubishi Electric Engineering



Junction terminal block

The junction terminal block helps signal transmissions between a programmable controller and devices such as sensors in connection methods suitable for applications.

The most suitable model can be selected from approx. 250 models according to system configuration.



Digital signal converter (terminal module)

Digital signals from a programmable controller can be converted to signals suitable for the connected devices such as a magnetic starter (example: from 24VDC signal to 200VAC signal).

One terminal module supports connections with multiple devices with different voltage loads.



Analog signal converter

Analog signals from the connected devices such as sensors can be converted to signals suitable for a programmable controller (example: from a temperature signal to a voltage signal).

Data from sensors can be visualized easily, and small-scale IoT can be introduced.



Selection charts

I/O module

	Programmable controller module model	Module model	Connection cable
MELSEC iQ-R series	RX40C7	Positive common	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
		Negative common	FA-CBL**M20 FA-CBL**YM20
	RX40C7-TS	Positive common	FA1-CB1L**EM1F18
		Negative common	FA1-CB1L**EM1F18
	RX40NC6B	Negative common	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
		Positive common	FA1-CB1L**EM2F34
	RX41C4-TS	Negative common	FA1-CB1L**EM2F34
		Positive common	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
	RX70C4	Negative common	FA-CBL**M20 FA-CBL**YM20
		Positive common	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
	RY40NT5P	FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
	RY40NT5P-TS	FA1-TE2SV16XY	FA1-CB1L**EM1F18
	RY40PT5P-TS	FA1-TE2SV16XY	FA1-CB1L**EM1F18
	RY41NT2P-TS	FA1-TE2SV16XY	FA1-CB1L**EM2F34
	RY41PT1-TS	FA1-TE2SV16XY	FA1-CB1L**EM2F34
	RH42C4NT2P	For the input side, refer to the specifications of the RX41C4. For the output side, refer to the specifications of the RY41NT2P.	
MELSEC iQ-F series	RX41C4 RX41C6HS RX42C4	Positive common	FA-CBL**FM2LV FA-CBL**FM2V FA-CBL**FMV
		Negative common	FA-CBL**FMVE
		Positive common/negative common shared	FA-CBL**FMV-M
		Positive common	FA-CBL**FM2LV FA-CBL**FM2V
	RX71C4 RX72C4 RX61C6HS	FA1-TE2SD32XY	FA-CBL**FMV
		Negative common	FA-CBL**FMVE
		Positive common/negative common shared	FA-CBL**FMV-M
		FA1-TE2SD40P	FA-CBL**FM2LV FA-CBL**TMV20 FA-CBL**YM20
	RY40PT5P RY40PT5B	FA1-TE2SV16XY	FA-CBL**FM2LV FA-CBL**FM2V FA-CBL**YM20
	RY41NT2P	FA1-TE2SV16XY	FA-CBL**FM2LV FA-CBL**FM2V
	RY42NT2P	FA1-TE2SD32XY	FA-CBL**FMV
	RY41NT2H	FA1-TE2SD40P	FA-CBL**FMV-M
	RY41PT1P	FA1-TE2SV16XY	FA-CBL**FM2LV FA-CBL**FM2V
	RY42PT1P	FA1-TE2SD32XY	FA-CBL**FMV
	RY41PT2H	FA1-TE2SD40P	FA-CBL**FMV-M
	FX5-C16EX/D	Sink input	FA1-TE2SV16XY
	FX5-C16EX/DS	Sink input	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Source input	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Sink output	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
MELSEC iQ-F series	FX5-C16EYT/D	Sink output	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
	FX5-C16EYT/DSS	Source output	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
	FX5-C32ET/DSS-TS	Sink input	FA2-CB1L**EM1F18
		Source output	FA2-CB1L**EM1F18
		Source input	FA2-CB1L**EM1F18
	FX5-C32ET/DS-TS	Sink output	FA2-CB1L**EM1F18
		Sink input	FA2-CB1L**EM1F18
		Source input	FA2-CB1L**EM1F18
	FX5-C32EX/D	Sink input	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
	FX5-C32EX/DS	Sink input	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Source input	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Sink input	FA2-CB1L**EM1F18
	FX5-C32EX/DS-TS	Source input	FA2-CB1L**EM1F18
	FX5-C32EYT/D	Sink output	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
	FX5-C32EYT/DSS	Source output	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
	FX5-C32EYT/DSS-TS	Source output	FA2-CB1L**EM1F18
	FX5-C32EYT/D-TS	Sink output	FA2-CB1L**EM1F18
	FX5UC-32MT/DSS-TS	Sink input	FA2-CB1L**EM1F18
		Source output	FA2-CB1L**EM1F18
		Source input	FA2-CB1L**EM1F18
	FX5UC-32MT/DS-TS	Sink output	FA2-CB1L**EM1F18
	FX5UC-32MT/DS-TS	Sink input	FA2-CB1L**EM1F18
		Source input	FA2-CB1L**EM1F18
		Sink input	FA2-CB1L**EM1F18

Programmable controller module model			Module model	Connection cable
MELSEC iQ-F series	FX5UC-32MT/D FX5-C32ET/D	Sink output	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Sink input	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
	FX5UC-64MT/D FX5UC-96MT/D	Sink output	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Sink input	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
	FX5UC-32MT/DSS FX5-C32ET/DSS	Sink input	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Source output	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Source input	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
	FX5UC-64MT/DSS FX5UC-96MT/DSS	Sink input	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Source output	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
		Source input	FA1-TE2SV16XY	FA2-CB1LT**MM1H20 FA-FXCBL**MMH20
MELSEC-Q series	QX70	Positive common	FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
		Negative common	FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**YM20
	QX80	Negative common	FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
	QY70		FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**YM20
	QY71		FA1-TE2SV16XY	FA-CBL**FM2LV
			FA1-TE2SD32XY	FA-CBL**FM2V
			FA1-TE2SD40P	FA-CBL**FMV-M
	QY80		FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
	QY81P		FA1-TE2SV16XY	FA-CBL**DM2FY
			FA1-TE2SD32XY	FA-CBL**DMFY
	QY82P		FA1-TE2SV16XY	FA-CBL**FM2V
			FA1-TE2SD32XY	FA-CBL**FMV
			FA1-TE2SD40P	FA-CBL**FMV-M
	QX40 QX40-S1	Positive common	FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**TMV20 FA-CBL**YM20
	QX41 QX42 QX41-S1	Positive common	FA1-TE2SV16XY	FA-CBL**FM2LV
			FA1-TE2SD32XY	FA-CBL**FM2V
	QX41-S2 QX42-S1	Positive common/negative common shared	FA1-TE2SD40P	FA-CBL**FMV-M
			FA1-TE2SV16XY	FA-CBL**FM2LV
			FA1-TE2SD32XY	FA-CBL**FM2V
	QX71 QX72	Positive common	FA1-TE2SD32XY	FA-CBL**FMV
			FA1-TE2SV16XY	FA-CBL**FMVE
		Negative common	FA1-TE2SD32XY	FA-CBL**FMV-E
	QX81 QX81-S2	Positive common/negative common shared	FA1-TE2SD40P	FA-CBL**FMV-M
			FA1-TE2SD32XY	FA-CBL**DMFX
			FA1-TE2SV16XY	FA-CBL**FM2LV
	QX82 QX82-S1	Negative common	FA1-TE2SD32XY	FA-CBL**FM2V
			FA1-TE2SD40P	FA-CBL**FMVE
			FA1-TE2SV16XY	FA-CBL**FMV-M
	QY40P QY50		FA1-TE2SD32XY	FA-CBL**FM2LV
			FA1-TE2SD40P	FA-CBL**FM2V
			FA1-TE2SV16XY	FA-CBL**YM20
	QY41P QY41H QY42P		FA1-TE2SD32XY	FA-CBL**FM2V
			FA1-TE2SD40P	FA-CBL**FMV
			FA1-TE2SV16XY	FA-CBL**FMV-M
	QH42P QX41Y41P			For the input side, refer to the specifications of the QX41. For the output side, refer to the specifications of the QY41P.
MELSEC-L series	LH42C4NT1P LH42C4PT1P			For the input side, refer to the specifications of the LX41C4. For the output side, refer to the specifications of the LY41NT1P.
	LX40C6	Positive common	FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**YM20
		Negative common	FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**YM20
	LY40NT5P			FA-CBL**M20 FA-CBL**YM20
	LY40PT5P			FA-CBL**M20 FA-CBL**YM20
	LX41C4 LX42C4	Positive common	FA1-TE2SV16XY	FA-CBL**M20 FA-CBL**YM20
			FA1-TE2SD32XY	FA-CBL**FM2LV
			FA1-TE2SD40P	FA-CBL**FM2V
	Positive common/negative common shared	FA1-TE2SD40P	FA-CBL**FMV	FA-CBL**FMVE
			FA1-TE2SV16XY	FA-CBL**FMV-M

Programmable controller module model		Module model	Connection cable
MELSEC-L series	LY41NT1P	FA1-TE2SV16XY	FA-CBL**FM2LV
	LY42NT1P	FA1-TE2SD32XY	FA-CBL**FMV
		FA1-TE2SD40P	FA-CBL**FMV-M
	LY41PT1P	FA1-TE2SV16XY	FA-CBL**FM2LV
	LY42PT1P	FA1-TE2SD32XY	FA-CBL**FMV
		FA1-TE2SD40P	FA-CBL**FMV-M
	L02SCPU	FA1-TE2SV20P	FA-SCBL**FM2LV-LB
	L02SCPU-P		
	L02CPU		
	L02CPU-P		
	L06CPU		FA-SCBL**FMV-M
	L06CPU-P		
	L26CPU		
	L26CPU-P		
MELSEC-F series	L26CPU-BT	FA1-TE2SD40P	FA-SCBL**FMV-M
	L26CPU-PBT		
	FX2NC-16EX	Sink input	FA-FXCBL**MMH20
	FX2NC-16EYT	Sink output	FA-FXCBL**MMH20
	FX2NC-16EYT-DSS	Source output	FA-FXCBL**MMH20
	FX2NC-32EX	Sink input	FA-FXCBL**MMH20
	FX2NC-32EYT	Sink output	FA-FXCBL**MMH20
	FX2NC-32EYT-DSS	Source output	FA-FXCBL**MMH20
	FX3GC-32MT/D	Sink output	FA-FXCBL**MMH20
	FX3UC-16MT/D		
	FX3UC-32MT/D	Sink input	FA-FXCBL**MMH20
	FX3UC-32MT-LT		
	FX3UC-32MT-LT2	FA1-TE2SV16XY	FA-FXCBL**MMH20
	FX3UC-64MT/D		
	FX3UC-96MT/D	Sink input	FA-FXCBL**MMH20
	FX3GC-32MT/DSS		
CC-Link module	FX3UC-16MT/DSS	Sink input	FA-FXCBL**MMH20
	FX3UC-32MT/DSS	Source output	FA-FXCBL**MMH20
	FX3UC-32MT/DSS	Source input	FA-FXCBL**MMH20
	FX3UC-64MT/DSS	Sink input	FA-FXCBL**MMH20
	FX3UC-96MT/DSS	Source output	FA-FXCBL**MMH20
	FX3UC-96MT/DSS	Source input	FA-FXCBL**MMH20
	FX2NC-16EX-DS	Sink input	FA-FXCBL**MMH20
	FX2NC-32EX-DS	Source input	FA-FXCBL**MMH20

CC-Link module

Programmable controller module model		Module model	Connection cable
NZ2GN2S1-16D	Positive common	FA1-TE2SV16XY	FA3-CB1L**EM1F18X
NZ2GN2S1-16T		FA1-TE2SV16XY	FA3-CB1L**EM1F18Y
NZ2GN2S1-16TE		FA1-TE2SV16XY	FA3-CB1L**EM1F18Y
NZ2GN2S1-32D	Positive common	FA1-TE2SV16XY	FA3-CB1L**EM2F34X
NZ2GN2S1-32DT	Output side	FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
	Input side	FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
NZ2GN2S1-32DTE	Output side	FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
	Input side	FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
NZ2GN2S1-32T		FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
NZ2GN2S1-32TE		FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
NZ2GNCF1-32D	Positive common	FA1-TE2SV16XY	FA-CBL**FM2H
		FA1-TE2SD32XY	FA-CBL**FM2LH
	Common	FA1-TE2SD40P	FA-CBL**FMH-M
NZ2GNCF1-32T	Sink output	FA1-TE2SV16XY	FA-CBL**FM2H
		FA1-TE2SD32XY	FA-CBL**FMH
		FA1-TE2SD40P	FA-FCBL**FMH
			FA-CBL**FMH-M
CC-Link IE Field Basic	NZ2MF2S1-32D	Positive common	FA3-CB1L**EM2F34X
	Output side	FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
		FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
	Input side	FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
		FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
NZ2MF2S1-32DE1	Output side	FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
	Input side	FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
		FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
NZ2MF2S1-32T		FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
NZ2MF2S1-32TE1		FA1-TE2SV16XY	FA3-CB1L**EM2F34Y
CC-Link IE Field	NZ2GFCF1-32D	Positive common	FA-CBL**FM2H
			FA-CBL**FM2LH
		FA1-TE2SD32XY	FA-CBL**FMH
		FA1-TE2SD40P	FA-FCBL**FMH
	I/O combined	FA1-TE2SD40P	FA-CBL**FMH-M
	NZ2GFCF1-32T	Sink output	FA-CBL**FM2H
			FA-CBL**FM2LH
		FA1-TE2SD32XY	FA-CBL**FMH
		FA1-TE2SD40P	FA-FCBL**FMH
			FA-CBL**FMH-M

Programmable controller module model			Module model	Connection cable
CC-Link	AJ65SBTCF1-32D	Positive common	FA1-TE2SV16XY	FA-CBL**FM2H FA-CBL**FM2LH
			FA1-TE2SD32XY	FA-CBL**FMH FA-FCBL**FMH
		Common	FA1-TE2SD40P	FA-CBL**FMH-M FA-CBL**FMH-M
	AJ65SBTCF1-32DT	I/O combined	FA1-TE2SD40P	FA-CBL**FMH-M FA-CBL**FMH-M
	AJ65SBTCF1-32T AJ65BTC1-32T	Sink output	FA1-TE2SV16XY	FA-CBL**FM2H FA-CBL**FM2LH
			FA1-TE2SD32XY	FA-CBL**FMH FA-FCBL**FMH
			FA1-TE2SD40P	FA-CBL**FMH-M FA-CBL**FMH-M
			FA1-TE2SD40P	FA-CBL**FMH-M

Analog module

Programmable controller module model	Module model	Connection cable
MELSEC iQ-R series	R60AD6-DG	FA1-TE2SD40P
	R60AD8-G	FA1-TE2SD40P
	R60AD16-G	FA1-TE2SD40P
	R60ADI8	FA1-TE2SV20P
	R60ADV8	FA1-TE2SV20P
	R60DA4	FA1-TE2SV20P
	R60DA8-G	FA1-TE2SD40P
	R60DA16-G	FA1-TE2SD40P
	R60DAH4	FA1-TE2SV20P
	R60DAI8	FA1-TE2SV20P
MELSEC-Q series	R60DAV8	FA1-TE2SV20P
	Q62AD-DGH	FA1-TE2SV20P
	Q64DAN	FA1-TE2SV20P
	Q64DAH	FA1-TE2SV20P
	Q62DAN	FA1-TE2SD40P
	Q66AD-DG	FA1-TE2SD40P
	Q66DA-G	FA1-TE2SD40P
	Q68AD-G	FA1-TE2SD40P
	Q68ADI	FA1-TE2SV20P
	Q68ADV	FA1-TE2SV20P
MELSEC-Q series	Q68DAIN	FA1-TE2SV20P
	Q68DAVN	FA1-TE2SV20P

Non-Mitsubishi PLC

Programmable controller module model	Module model	Connection cable
OMRON Corporation	CJ1W-ID231	FA1-TE2SD40P
	CJ1W-ID261	FA-CBL**FMH
	CJ1W-ID232	
	CJ1W-ID262	FA1-TE2SD40P
	CJ1W-ID233	FA-CBL**MMH-R
	CJ1W-MD261	FA1-TE2SD40P
	CJ1W-MD263	FA1-TE2SD40P
	CJ1W-MD563	FA-CBL**MMH-R
	CJ1W-OD231	FA1-TE2SD40P
	CJ1W-OD261	FA-CBL**FMH
Yokogawa Electric Corporation	CJ1W-OD232	
	CJ1W-OD233	
	CJ1W-OD262	FA1-TE2SD40P
	CJ1W-OD263	FA-CBL**MMH-R
	CJ1W-ID234	
	CS1W-ID231	FA1-TE2SD40P
	CS1W-ID261	FA-CBL**FMH
	CS1W-MD261	FA1-TE2SD40P
	CS1W-MD262	FA-CBL**FMH
	CS1W-MD561	
FUJI ELECTRIC CO., LTD.	CS1W-OD231	
	CS1W-OD232	
	CS1W-OD261	FA1-TE2SD40P
	CS1W-OD262	FA-CBL**FMH
	DRT2-ID32ML	FA1-TE2SD40P
	DRT2-ID32ML-1	FA-CBL**MMH-R
	DRT2-MD32ML	FA1-TE2SD40P
	DRT2-MD32ML-1	FA-CBL**MMH-R
	DRT2-OD32ML	FA1-TE2SD40P
	DRT2-OD32ML-1	FA-CBL**MMH-R
Yokogawa Electric Corporation	GT1-ID32ML	
	GT1-ID32ML-1	FA1-TE2SD40P
	GT1-OD32ML	FA-CBL**FMH
	GT1-OD32ML-1	FA1-TE2SD40P
	SRT2-ID32ML	FA1-TE2SD40P
	SRT2-ID32ML-1	FA-CBL**MMH-R
	SRT2-MD32ML	FA1-TE2SD40P
	SRT2-MD32ML-1	FA-CBL**MMH-R
	SRT2-OD32ML	FA1-TE2SD40P
	SRT2-OD32ML-1	FA-CBL**MMH-R

High-speed counter module

Programmable controller module model	Module model	Connection cable
MELSEC iQ-R series	RD62P2	
	RD62D2	FA1-TE2SD40P
	RD62P2E	FA-SCBL**FMV-M
MELSEC-L series	LD62	FA1-TE2SD40P
MELSEC-Q series	LD62D	FA1-TE2SD40P
MELSEC-Q series	QD62	
	QD62E	FA1-TE2SD40P
	QD62D	FA-SCBL**FMV-M

CNC (computerized numerical controller)

Remote I/O module model	Module model	Connection cable
M800W	FCU8-DX220	
M80W	FCU8-DX230	FA1-TE2SD40P
	FCU8-DX231	FA-CBL**MMH
	FCU8-DX651	

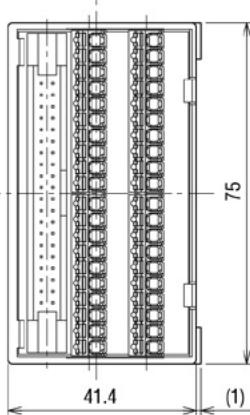
F3WD64-3P	FA1-TE2SD40P	FA-CBL**FMH-FY
F3WD64-4P		
F3XD32-3F		
F3XD32-4F		
F3XD32-5F	FA1-TE2SD40P	FA-CBL**FMH-FY
F3XD64-3F		
F3XD64-4F		
F3XD64-6M		
F3YD32-1H		
F3YD32-1P		
F3YD32-1R		
F3YD32-1T	FA1-TE2SD40P	FA-CBL**FMH-FY
F3YD64-1M		
F3YD64-1P		
F3YD64-1R		
NP1W3206T		
NP1W3206U	FA1-TE2SD40P	FA-CBL**FMH-FY
NP1W6406T		
NP1W6406U		
NP1X3206-W		
NP1X3202-W	FA1-TE2SD40P	FA-CBL**FMH-FY
NP1X6406-W		
NP1Y32T09P1		
NP1Y32U09P1		
NP1Y64T09P1	FA1-TE2SD40P	FA-CBL**FMH-FY
NP1Y64U09P1		

■ Product specifications

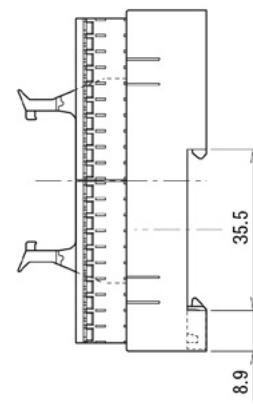
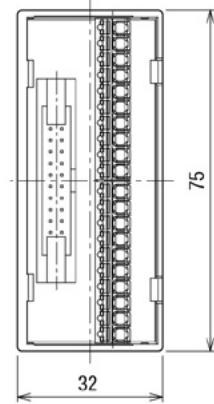
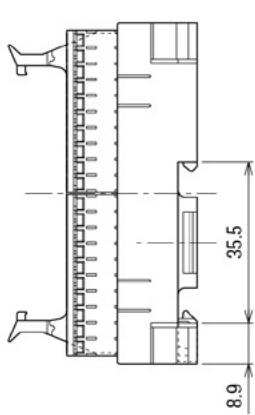
Item	FA1-TE2SD40P	FA1-TE2SV20P	FA1-TE2SD32XY	FA1-TE2SV16XY	FA1-TE2SV40EX
No. of points	40 points	20 points	32 points / 4 (24V) common points + 4 (0V) common points	16 points / 2 (24V) common points + 2 (0V) common points	20 common points + 20 common points
Rated voltage	24VDC (SELV and LIM or Class 2)			24VDC/100 to 240VAC (+10%, -15%)	
Maximum operating voltage	30VDC (SELV and LIM or Class 2)			30VDC, 264VAC	
Maximum operating current	Signal: 1A		Signal: 1A Common: 2A		Common: 6A
Terminal block (Spring clamp terminal block)	Number of terminals	40P	20P	40P	20P
Applicable wire	Without ferrule (stranded/solid wire)	0.2 to 1.5mm ² (24 to 16AWG), copper wire with a temperature rating of 75°C or more			
	With ferrule (stranded/solid wire)	0.08 to 0.75mm ² (28 to 18AWG), copper wire with a temperature rating of 75°C or more			
Wire strip length		8mm			
Module installation	DIN rail	Applicable DIN rail: TH35-7.5Fe, TH35-7.5Al (IEC 60715 compliant)			
Withstand voltage	1250VAC for 1 minute (between all terminals and case)				3000VAC for 1 minute (between commons, between all terminals and case)
Insulation resistance	10MΩ or more (measured with 500VDC insulation resistance tester)				
Weight	Approx. 60g	Approx. 40g	Approx. 60g	Approx. 40g	Approx. 45g

■ External dimensions (unit: mm)

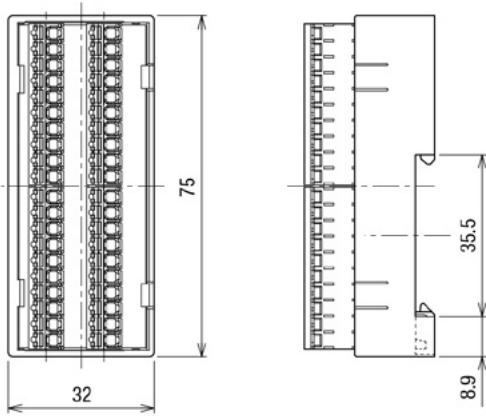
• FA1-TE2SD32XY/FA1-TE2SD40P



• FA1-TE2SV16XY/FA1-TE2SV20P



• FA1-TE2SV40EX



■ Product list

Junction terminal blocks Spring clamp terminal type

Connected device	Shape	Specifications	Model
MELSEC iQ-R/MELSEC iQ-F/MELSEC-Q/MELSEC-L/ MELSEC-F series, CC-Link family	 <small>* The image is FA1-TE2SD32XY.</small>	Input/output 32 points, 24VDC	FA1-TE2SD32XY
		Input/output 16 points, 24VDC	FA1-TE2SV16XY
MELSEC iQ-R/MELSEC iQ-F/MELSEC-Q/MELSEC-L/ MELSEC-F series, CC-Link family, CNCs (computerized numerical controllers), non-Mitsubishi PLCs (OMRON, Yokogawa Electric, FUJI ELECTRIC)		Input/output 40 points, 24VDC	FA1-TE2SD40P
-		Input/output 20 points, 24VDC	FA1-TE2SV20P
		Common terminal block 40 points, 24VDC/100 to 240VAC	FA1-TE2SV40EX

Connection cables

Connected device	Connection type		Cable length	Model
	Programmable controller side	Junction terminal block side		
MELSEC iQ-R series (I/O module)	Spring clamp terminal block	MIL20P	1/2/3m	FA1-CB1L**EM1F18
		MIL20P × 2	1/2/3m	FA1-CB1L**EM2F34
MELSEC iQ-F/MELSEC-F series (I/O module)	Spring clamp terminal block	MIL20P	1/2/3m	FA2-CB1L**EM1F18
		MIL20P	1/2/3m	FA2-CB1LT**MM1H20
MELSEC iQ-R/MELSEC-Q/MELSEC-L series (I/O module)	FCN40P	MIL40P	0.5/1/2/3/5/8/10/15/20m	FA-CBL**FMV
			0.5/1/2/3m	FA-CBL**FMVE
	D-Sub37P	MIL40P	0.5/1/2/3/5/10m	FA-CBL**DMFX
				FA-CBL**DMFY
	FCN40P	MIL20P × 2	0.6/1/1.5/2/3/5/10m	FA-CBL**FM2V
			0.6/1/2/3/5/10m	FA-CBL**FM2LV
	D-Sub37P	MIL20P × 2	2m	FA-CBL**DM2FY
	FCN40P	MIL40P	0.5/1/2/3/5m	FA-CBL**FMV-M
	Discrete cable	MIL20P	0.6/1/2m	FA-CBL**M20
	Y terminal	MIL20P	1/2/3/5m	FA-CBL**YM20
MELSEC iQ-R/MELSEC-Q/MELSEC-L series (High-speed counter module)	FCN40P	MIL40P	0.5/1/1.5/2m	FA-SCBL**FMV-M
	Screw terminal block	MIL20P	0.6/1/2/3m	FA-CBL**TMV20
				FA1-CBL**R60DA8G
MELSEC iQ-R/MELSEC-Q series (Analog module)	FCN40P	MIL20P	0.5/1/2/3m	FA-CBL**Q68ADGN
				FA-CBL**Q66ADDG
	Screw terminal block	MIL20P	2/3m	FA-CBL**Q64ADT
			0.5/2/3m	FA-CBL**Q64DAT
	20P connector	MIL20P	2m	FA-CBL**Q68ADA
			0.5/2m	FA-CBL**Q68DAA
MELSEC-L series (Built-in I/O of CPU module)	FCN40P	MIL20P × 2	1m	FA-SCBL**FM2LV-LB
CNC (computerized numerical controller) (Remote I/O module)	MIL40P	MIL40P	0.5/1/2/3/5/8/10m	FA-CBL**MMH
CC-Link IE TSN	Spring clamp terminal block	MIL20P	1/2/3m	FA3-CB1L**EM1F18X
				FA3-CB1L**EM1F18Y
CC-Link IE TSN CC-Link IE Field Basic	Spring clamp terminal block	MIL20P × 2	1/2/3m	FA3-CB1L**EM2F34X
				FA3-CB1L**EM2F34Y
CC-Link IE TSN CC-Link Modules manufactured by OMRON	FCN40P	MIL40P	0.5/1/2/3/5m	FA-CBL**FMH
CC-Link IE TSN CC-Link IE Field CC-Link	FCN40P	MIL40P	0.5/1/2/3m	FA-FCBL**FMH
	FCN40P	MIL20P × 2	0.3/1/2/3m 1/2/3/5m	FA-CBL**FM2H
Modules manufactured by OMRON	FCN40P	MIL40P	0.5m	FA-CBL**FM2LH
				FA-CBL**FMH-M
Modules manufactured by Fuji Electric FA Components & Systems and Yokogawa Electric	MIL40P	MIL40P	0.5/2m	FA-CBL**MMH-R
	FCN40P	MIL40P	0.5/1/2/3/5m	FA-CBL**FMH-FY

Conversion adapter

Connected device	Specifications	Model
MELSEC iQ-R/MELSEC-Q series analog module	18 points, conversion of screw terminal block to connector	FA-Q6TCA

■ Related catalogs

Digest edition



Time and Wire Saving Devices



■ Related leaflets

Digital Signal Converters (Terminal Modules) (MEIC224E-226)



Analog Signal Converters (MEIC220E-211)



Cable with Spring Clamp Terminal Block (MEIC218E-218)



Spring Clamp Terminal Block Conversion Adapter (MEIC196E-209)



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MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED

NAGOYA ENGINEERING OFFICE | 1-9, Daiko-Minami, 1-Chome, Higashi-ku, Nagoya, Aichi 461-0047 Japan

Website



www.mitsubishelectricengineering.com/sales/fa/meefan/

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