# Cable with Spring Clamp Terminal Block

(Discrete Cable Type / Connector Type)

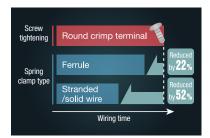
**Analog Shielded Cable with Ferrules** 



# Wiring efficiency enhanced for spring clamp terminals

## 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.

# TWO processes improved for innovative wiring solutions

Significant reduction in time required to connect a programmable controller and a general-purpose product

Before Wire ends terminated / wires connected one by one After Just remove and attach the cable with spring clamp terminal block

Wiring time

1) Terminate

2) Connect

2) Connect

1) Remove

1) Remove

\* Internal investigation data are used for the wiring time

# Wiring time further reduced by using our other products for wiring

Connector type

More

effective



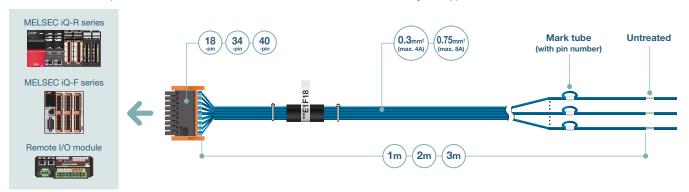
# **Products**

## **Cable with spring clamp terminal block**

### Discrete cable type

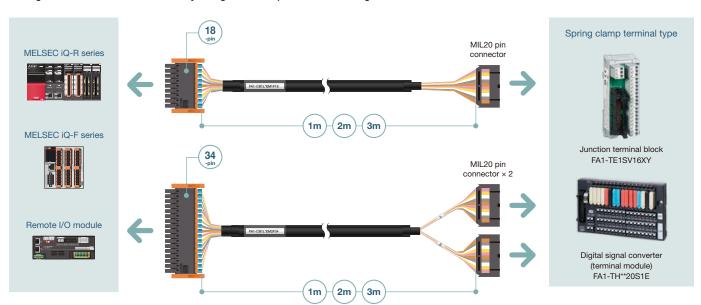
This cable is used for connection between a programmable controller and another device.

Models for different permissible currents and untreated wire ends broaden the range of application of this cable.



#### Connector type

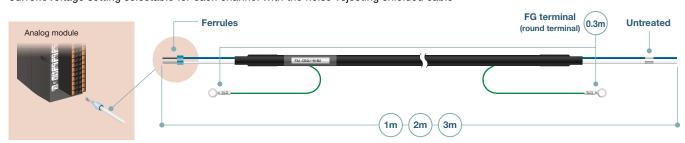
This cable is used for connection between a programmable controller and a junction terminal block / digital signal converter. Wiring time will be further reduced by using our other products for wiring.



## **Analog shielded cable with ferrules**

Analog signal cable with ferrules (for 1 channel)

Current/voltage setting selectable for each channel with the noise-rejecting shielded cable



### ■ Selection chart

Series	nmable controller mod Model	Common			Module type	ime and wire savin	g device	Module	Connection cable
Selles	1	Common		0.75mm <sup>2</sup> type (max. 8				Module	FA1-CB3L07SQ**E1F18
	RX10-TS		Discrete cable	0.3mm² type (max. 4A					FA1-CB3L03SQ**E1F18
			Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA1-CB1L**EM1F18
					24VDC N/O contact relay			FA1-TH16X24RA1L20S1E	
		Docitivo comm	Digital gignal accord		(positive common) 24VDC N/O contact relay	Module mixing possible	Independent		FA1-CB1L**EM1F18
		LOSITIVE COLLUON	Digital signal converter (terminal module)	Spring clamp	(negative common)			FA1-TH16X24RA1H20S1E	
	RX40C7-TS		(torrima modulo)			Madula calcatable	Indonondont	FA1-TH4X2SC20S1E	FA1-CB1L**EM1F18
					Base unit	Module selectable	Independent	FA1-TH8X2SC20S1E	FA-CBL**MMH20 (for distributing)
		Negative	Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA1-CB1L**EM1F18
		common		0.75mm² type (max. 8	84)		. 71		FA1-CB3L07SQ**E1F18
			Discrete cable	0.3mm² type (max. 4A					FA1-CB3L03SQ**E1F18
			Junction terminal block		7		1-wire type	FA1-TE1SV16XY	FA1-CB1L**EM2F34
					24VDC N/O contact relay			FA1-TH16X24RA1L20S1E	
		Docitivo common	Disital sissal sassatas		(positive common) 24VDC N/O contact relay	Module mixing possible	Independent		FA1-CB1L**EM2F34
		r ositive common	Digital signal converter (terminal module)	Spring clamp	(negative common)			FA1-TH16X24RA1H20S1E	
	RX41C4-TS		,		Base unit	Module selectable	Independent	FA1-TH4X2SC20S1E	FA1-CB1L**EM2F34
					Dase unit	Wodule Selectable	inachenacii	FA1-TH8X2SC20S1E	FA-CBL**MMH20 (for distributing)
		Negative common	Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA1-CB1L**EM2F34
		COMMINION		0.75mm <sup>2</sup> type (max. 8	RA)	-			FA1-CB3L07SQ**E1F34
			Discrete cable	0.3mm² type (max. 4A					FA1-CB3L03SQ**E1F34
	RY10R2-TS		Discrete cable	0.75mm² type (max. 8					FA1-CB3L07SQ**E1F18
	11110112-13			0.3mm² type (max. 4A	A)				FA1-CB3L03SQ**E1F18
MELSEC iQ-R			Junction terminal block	Spring clamp	N/O contact relay	Modulo miving possible	1-wire type	FA1-TE1SV16XY	FA1-CB1L**EM1F18
series			Digital signal converter		Triac, 1.0A	Module mixing possible  Module mixing possible	Independent Independent	FA1-TH16Y2RA20S1E FA1-TH16Y1SR20S1E	
	RY40NT5P-TS		(terminal module)	Spring clamp	Transistor, 1.0A	Module mixing possible	Independent	FA1-TH16Y1TR20S1E	FA1-CB1L**EM1F18
					Base unit	Module selectable	Independent	FA1-TH16Y2SC20S1E	
			Discrete cable	0.75mm² type (max. 8					FA1-CB3L07SQ**E1F18
				0.3mm² type (max. 4A	A)		lae ·	EAT TELONOON	FA1-CB3L03SQ**E1F18
			Junction terminal block	Spring clamp	N/O contact relay	Module mixing possible	1-wire type Independent	FA1-TE1SV16XY FA1-TH16Y2RA20S1E	FA1-CB1L**EM2F34
			Digital signal converter		Triac, 1.0A	Module mixing possible	Independent	FA1-TH16Y2RA2USTE	
	RY41NT2P-TS		(terminal module)	Spring clamp	Transistor, 1.0A	Module mixing possible	Independent	FA1-TH16Y1TR20S1E	FA1-CB1L**EM2F34
					Base unit	Module selectable	Independent	FA1-TH16Y2SC20S1E	
			Discrete cable	0.75mm² type (max. 8					FA1-CB3L07SQ**E1F34
				0.3mm² type (max. 4A	A)		dton boom	EA4 TE401/4000/	FA1-CB3L03SQ**E1F34
			Junction terminal block	Spring clamp	N/O contact relay	Module mixing possible	1-wire type Independent	FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E	FA1-CB1L**EM1F18
			Digital signal converter		Triac, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1SR20S1E	
	RY40PT5P-TS	RY40PT5P-TS		Spring clamp	Transistor, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1TR20S1E	FA1-CB1L**EM1F18
					Base unit	Module selectable	Independent	FA1-TH1E16Y2SC20S1E	
			Discrete cable	0.75mm <sup>2</sup> type (max. 8					FA1-CB3L07SQ**E1F18
				0.3mm² type (max. 4A	A)		dton box	EA4 TE40//40/0/	FA1-CB3L03SQ**E1F18
			Junction terminal block	Spring clamp	N/O contact relay	Module mixing possible	1-wire type Independent	FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E	FA1-CB1L**EM2F34
			Digital signal converter		Triac, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1SR20S1E	
	RY41PT1P-TS		(terminal module)	Spring clamp	Transistor, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1TR20S1E	FA1-CB1L**EM2F34
					Base unit	Module selectable	Independent	FA1-TH1E16Y2SC20S1E	
			Discrete cable	0.75mm² type (max. 8					FA1-CB3L07SQ**E1F34
			Junction terminal block	0.3mm² type (max. 4A	4)		1-wire type	FA1-TE1SV16XY	FA1-CB3L03SQ**E1F34 FA2-CB1L**EM1F18
			Junction terminal block	Opining Glarinp	24VDC N/O contact relay		1 wile type		TAZ ODIE LIWITIO
		Sink input	Digital signal converter (terminal module)		(positive common)	Module mixing possible	Independent	FA1-TH16X24RA1L20S1E	FA2-CB1L**EM1F18E
				Spring clamp	(negative common)	писрепист	FA1-TH16X24RA1H20S1E	TAZ ODIE EMITTOE	
				J				FA1-TH4X2SC20S1E	FA2-CB1L**EM1F18E
					Base unit	Module selectable	Independent	FA1-TH8X2SC20S1E	FA-CBL**MMH20 (for distributing)
	FX5UC-32MT/DS-TS	Source input	Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA2-CB1L**EM1F18
			Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA2-CB1L**EM1F18
		0:-1			N/O contact relay	Module mixing possible	Independent	FA1-TH16Y2RA20S1E	
		Sink output	Digital signal converter (terminal module)	Spring clamp	Triac, 1.0A Transistor, 1.0A	Module mixing possible  Module mixing possible	Independent Independent	FA1-TH16Y1SR20S1E FA1-TH16Y1TR20S1E	FA2-CB1L**EM1F18
			(comma moude)		Base unit	Module mixing possible  Module selectable	Independent	FA1-TH16Y2SC20S1E	
			Diseasete	0.75mm² type (max. 8			pondont		FA1-CB3L07SQ**E1F18
			Discrete cable	0.3mm² type (max. 4A					FA1-CB3L03SQ**E1F18
			Junction terminal block	Spring clamp	la nuna nua		1-wire type	FA1-TE1SV16XY	FA2-CB1L**EM1F18
					24VDC N/O contact relay (positive common)			FA1-TH16X24RA1L20S1E	
		Cink innut	Digital signal converter		24VDC N/O contact relay	Module mixing possible	Independent	FAI THEOVOLDADING	FA2-CB1L**EM1F18E
		Sink input	Digital signal converter	Spring clamp	(negative common)			FA1-TH16X24RA1H20S1E	
MELSEC iQ-F		Sink input	(terminal module)				I	FA1-TH4X2SC20S1E	FA2-CB1L**EM1F18E
MELSEC iQ-F series		Sink input	(terminal module)		Base unit	Module selectable	Independent		
			Ì	Onder !	Base unit	Module selectable	Independent	FA1-TH8X2SC20S1E	FA-CBL**MMH20 (for distributing)
	FX5UC-32MT/DSS-TS	Sink input  Source input	Junction terminal block	Spring clamp	Base unit	Module selectable	1-wire type	FA1-TH8X2SC20S1E FA1-TE1SV16XY	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18
	FX5UC-32MT/DSS-TS		Ì	Spring clamp Spring clamp			1-wire type 1-wire type	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY	FA-CBL**MMH20 (for distributing)
	FX5UC-32MT/DSS-TS		Junction terminal block	Spring clamp	N/O contact relay Triac, 1.0A	Module selectable  Module mixing possible  Module mixing possible	1-wire type	FA1-TH8X2SC20S1E FA1-TE1SV16XY	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18
	FX5UC-32MT/DSS-TS	Source input	Junction terminal block Junction terminal block		N/O contact relay Triac, 1.0A Transistor, 1.0A	Module mixing possible Module mixing possible Module mixing possible	1-wire type 1-wire type Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1TR20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18
	FX5UC-32MT/DSS-TS	Source input	Junction terminal block Junction terminal block Digital signal converter	Spring clamp  Spring clamp	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit	Module mixing possible Module mixing possible	1-wire type 1-wire type Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1SR20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18E
	FX5UC-32MT/DSS-TS	Source input	Junction terminal block Junction terminal block Digital signal converter	Spring clamp  Spring clamp  0.75mm² type (max. 8	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit	Module mixing possible Module mixing possible Module mixing possible	1-wire type 1-wire type Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1TR20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18  FA1-CB3L07SQ**E1F18
	FX5UC-32MT/DSS-TS	Source input	Junction terminal block Junction terminal block Digital signal converter (terminal module)	Spring clamp  Spring clamp  0.75mm² type (max. 8  0.3mm² type (max. 44)	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit A)	Module mixing possible Module mixing possible Module mixing possible	1-wire type 1-wire type Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1TR20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18  FA1-CB3L07SQ**E1F18 FA1-CB3L03SQ**E1F18
	FX5UC-32MT/DSS-TS  FX5UC-32MR/DS-TS	Source input	Junction terminal block Junction terminal block Digital signal converter (terminal module)	Spring clamp  Spring clamp  0.75mm² type (max. & 0.3mm² type (max. 4/0.75mm² type (max. 4/0.75mm² type (max. 8/0.75mm² type (max. 8/0.7	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit A) A)	Module mixing possible Module mixing possible Module mixing possible	1-wire type 1-wire type Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1TR20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18E  FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18
		Source input	Junction terminal block Junction terminal block Digital signal converter (terminal module) Discrete cable Discrete cable	Spring clamp  Spring clamp  0.75mm² type (max. & 0.75mm² type (max. 44 0.75mm² type (max	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit A) A)	Module mixing possible Module mixing possible Module mixing possible	1-wire type 1-wire type Independent Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1TR20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18  FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18
		Source input	Junction terminal block Junction terminal block Digital signal converter (terminal module) Discrete cable	Spring clamp  Spring clamp  0.75mm² type (max. & 0.3mm² type (max. 4/0.75mm² type (max. 4/0.75mm² type (max. 8/0.75mm² type (max. 8/0.7	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit A) A)	Module mixing possible Module mixing possible Module mixing possible	1-wire type 1-wire type Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-THE1SV2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1SC20S1E FA1-TH1E16Y1SC20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18  FA1-CB3L07SQ**E1F18 FA1-CB3L07SQ**E1F18 FA1-CB3L07SQ**E1F18
		Source input Source output	Junction terminal block Junction terminal block Digital signal converter (terminal module) Discrete cable Discrete cable Junction terminal block	Spring clamp  Spring clamp  0.75mm² type (max. & 0.75mm² type (max. 44 0.75mm² type (max	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit A) A)  24VDC N/O contact relay (positive common)	Module mixing possible Module mixing possible Module mixing possible Module selectable	1-wire type 1-wire type Independent Independent Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1TR20S1E FA1-TH1E16Y1SC20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18  FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18
		Source input	Junction terminal block Junction terminal block Junction terminal block Digital signal converter (terminal module) Discrete cable Discrete cable Junction terminal block Digital signal converter	Spring clamp  Spring clamp  0.75mm² type (max. & 0.75mm² type (max. 44 0.75mm² type (max	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit A) BA) BA) A)  24VDC N/O contact relay (positive common) 24VDC N/O contact relay	Module mixing possible Module mixing possible Module mixing possible	1-wire type 1-wire type Independent Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-THE1SV2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1SC20S1E FA1-TH1E16Y1SC20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18  FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18
	FX5UC-32MR/DS-TS	Source input Source output	Junction terminal block Junction terminal block Digital signal converter (terminal module) Discrete cable Discrete cable Junction terminal block	Spring clamp  Spring clamp  0.75mm² type (max. & 0.3mm² type (max. & 0.75mm² type (max. & 0.7	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit 3A) 3A) 24VDC N/O contact relay (positive common) 24VDC N/O contact relay (negative common)	Module mixing possible Module mixing possible Module mixing possible Module selectable  Module selectable  Module mixing possible	1-wire type 1-wire type Independent Independent Independent Independent Independent Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y1SR20S1E FA1-TH1E16Y2SC20S1E  FA1-TH1E16Y2SC20S1E  FA1-TH1E16Y2SC20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18E  FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA2-CB1L**EM1F18
	FX5UC-32MR/DS-TS	Source input Source output	Junction terminal block Junction terminal block Junction terminal block Digital signal converter (terminal module) Discrete cable Discrete cable Junction terminal block Digital signal converter	Spring clamp  Spring clamp  0.75mm² type (max. & 0.3mm² type (max. & 0.75mm² type (max. & 0.7	N/O contact relay Triac, 1.0A Transistor, 1.0A Base unit A) BA) BA) A)  24VDC N/O contact relay (positive common) 24VDC N/O contact relay	Module mixing possible Module mixing possible Module mixing possible Module selectable	1-wire type 1-wire type Independent Independent Independent Independent Independent	FA1-TH8X2SC20S1E FA1-TE1SV16XY FA1-TE1SV16XY FA1-TH1E16Y2RA20S1E FA1-TH1E16Y1R20S1E FA1-TH1E16Y1R20S1E FA1-TH1E16Y1R20S1E FA1-TH1E16Y2SC20S1E  FA1-TH1E16Y2SC20S1E	FA-CBL**MMH20 (for distributing) FA2-CB1L**EM1F18 FA2-CB1L**EM1F18  FA2-CB1L**EM1F18  FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18 FA1-CB3L07S0**E1F18

March   Marc	Program	nmable controller modu	ıle name			Т	ime and wire savin	a device		
Part							ine and wire savin	g device	Module	Connection cable
## CERSION IS  ## CER	- Concs	Model	Common	Junction terminal block	Spring clamp	modulo type		1-wire type		
No. CONTROL TO   Spin spring and section of the control to   Spi				Daniotion torrinna brook	opring diamp	N/O contact relay	Module mixing possible			THE OBTE EMITTO
Pack			Sink output	Digital signal converter				-		
March 1986   1		FX5-C32ET/DS-TS			Spring clamp	,	01			FA2-CB1L**EM1F18
Ministry						Base unit				
Part				Disaveta ashla	0.75mm² type (max. 8	BA)				FA1-CB3L07SQ**E1F18
Packed   P				Discrete cable	0.3mm2 type (max. 4A	A)				FA1-CB3L03SQ**E1F18
PR   1981   1981   1981   1982   19				Junction terminal block	Spring clamp	,		1-wire type	FA1-TE1SV16XY	FA2-CB1L**EM1F18
Sick Part   Deptite plane						24VDC N/O contact relay			EA1 THICKNADATIONSE	
March   Control   Contro						(positive common)	Modula miving possible	Indonandant	rai-inioazanailzooie	EA2_CR11 **EM1E19E
Part			Sink input		Spring clamp		module mixing possible	шаоронаон	FA1-TH16X24RA1H20S1E	THE OBTE EMITTOE
March   Marc				(terminal module)	opring diamp	(negative common)				
Pac CREATION   Pac cert sept						Base unit	Module selectable	Independent		
Marches buttoms broad   Spring group		EVE COOFT/DOO TO	Course input	lunction terminal block	Carina alama			1 wire two		, ,,
Section of the sect		FX5-U32E1/DSS-1S	Source input							
				Junction terminal block	Spring Gamp	N/O contact relay	Modula miving possible			TAZ-ODIE EWITTO
March   Marc			Source output	Digital signal converter						
Mail St. Cu					Spring clamp			-		FA2-CB1L**EM1F18E
March   Marc				,				-		
March   Marc					0.75mm <sup>2</sup> type (max. 8	BA)				FA1-CB3L07SQ**E1F18
Miles   Pack				Discrete cable						FA1-CB3L03SQ**E1F18
				Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA2-CB1L**EM1F18
PAC CLOS VIS 15   Service   Packed to remain an expension of the control and analysis   Service   Packed to remain an expension of the control and analysis   Packed to remain an expens	MELSEC iQ-F								FA1_TH16Y2/RA1L20S1F	
Pist-CIDELLOS-TS   Serve	series						Module mixing possible	Independent	TAT-TITTOAZ4NATEZOOTE	FΔ2-CR1I **FM1F18F
PAC CARRAGE TAY   Description of the formal mode)   Series (charge)   Series (char			Sink input		Spring clamp		Would mixing possible	шисреписти	FA1-TH16X24RA1H20S1E	TAZ ODTE EMITTOE
Sucre rigid		FX5-C32FX/DS-TS		(terminal module)	קוווטוט פיייק-	(negative common)				
Service   Part   Control   Part   P						Base unit	Module selectable	Independent		
PSC-C187910-TS			Course inset	lunation termin -1 51- 1	Caring classes		<u> </u>			
No.CHERNED-15			Source input	Julicuon terminal block		24/		ı-wıre type	LWI-IE19AIDXA	
Post CARCETYO TS				Discrete cable		··				
Access a service service   Access a service service   Access a service service   Access a service   Access					21 \					
PS-5/22/17/0-15    Serie output   Depart again convert   Express output   Depart again convert   Depart again con		FX5-C16EYR/D-TS		Discrete cable						
PS-5/2329770-136				lunction terminal block	,, ,	y		1-wire type	FA1_TE1SV16YV	
PKS-C32EYT0-TS   Pks-				Junction terminal block	Spring Gamp	N/O contact relay	Module mixing possible	,,		TAZ-ODIE LIWITIO
PLACE   Public common   Publ			Sink output							
Base unit   Module exiscable   Dispersion of Topin		FY5_C32FVT/D_TS			Spring clamp					FA2-CB1L**EM1F18
Discrete cable   Disc		17.0 00221175 10		,						
March   Marc					0.75mm <sup>2</sup> type (max. 8		,			FA1-CB3L07SQ**E1F18
PS-C32871/05S-15    Source output   Digital signal converter (Deminal module)   Digital signal converter (Deminal module)   Spring clamp   Timesaker, 16 M. Module minor, possible in po				Discrete cable						
PS-C32871/058-15   Source output   Digital signal converter (berminal module)   Digital signal converter (berminal module)   Spring clamp   Digital signal converter (berminal module)   Spring clamp   Digital signal converter (berminal module)   Spring clamp   Digital signal converter (berminal module)   Digital signal converter (ber				Junction terminal block		·	,	1-wire type	FA1-TE1SV16XY	FA1-CB1L**EM1F18
Post-Gazer/Folks-TS   Decrete cable   Decret						N/O contact relay	Module mixing possible		FA1-TH1E16Y2RA20S1E	
Post-S22T1/JSS-150   Bernate minuses   Similar			Source output	Digital signal converter	Caria a alama	Triac, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1SR20S1E	FAO OD41 **FA41F4.0F
Decrete cable   Decrete cabl		FX5-C32EYT/DSS-TS		(terminal module)	Spring Gamp	Transistor, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1TR20S1E	FAZ-GDIL EWIFIOE
CC-LINK   ET IN   AZSINS2-80   Series with select ability   Command   Comm							Module selectable	Independent	FA1-TH1E16Y2SC20S1E	
CC-Link   ETSN   NZ20NSS-40   Discrete cable   Discrete				Discrete cable						
MZ6NS2-16DE				S.ooroto babit						
M226N2S1-16DE					0.75mm² type (max. 8	BA)		FA1-CB3L07SQ**E1F40		
Autoclos terminal block   Positive common   Digital signal converter (terminal module)				Discrete cable	0.3mm2 type (max. 4A	<b>A)</b>			FA1-CB3L03SQ**E1F40	
Positive common   Digital signal converter (terminal module)   Spring clamp   24/0/C WC contact relay (megalive common)   Spring clamp (terminal module)   Spring c	TUTICUOTI	NZZUNGGZ-TODTE	1	lunction terminal block	Spring clamp	-		1_wire type	EA1_TE1CV1CVV	EA2_CB11 **EM1E10V
Positive common   Digital signal converter   D				Junction terminal block	Spring Gamp	2/IVDC N/O contact relay		1-wile type		TAS-OBTE EWITTON
Positive common   Digital signal converter   terminal module)   Spring clamp			Positive common		Spring clamp				FA1-TH16X24RA1L20S1E	
NZGNZS1-16D						,	Module mixing possible	Independent	FA4 TU4CVO4DA4U0004F	FA3-CB1L**EM1F18X
Discrete cable   Disc		NZ2GN2S1-16D				(negative common)			FAI-IHI0XZ4KAIHZUSIE	
Discrete cable   D-75mm² type (max. Aq)						Raca unit	Modula calactable	Indonandant		FA3-CB1L**EM1F18X
Auction terminal block   Spring clamp   Auction terminal block   Auct							modulo scicolabic	muchement	FA1-TH8X2SC20S1E	
Audition terminal block   Spring clamp   Spring clamp   No contact relay   Module mixing possible   Independent   FA1-TEISV16XY   FA3-CB1L**EMTF18Y   FA3-CB3L**EMTF18Y   FA3-CB3L**EMTF				Discrete cable						
NZ2GN2S1-16T						A)		1		
NZ26N2S1-16T				Junction terminal block	Spring clamp	Ture	I			FA3-CB1L**EM1F18Y
NZ2GN2S1-16T   (terminal module)   (terminal				D. 11						
Positive common   Digital signal converter (terminal module)   Positive common   Digital signal converter (terminal module)   Discrete cable		N700N004 40T			Spring clamp					FA3-CB1L**EM1F18Y
Discrete cable   Disc		NZZGNZ51-161		(terriirial module)						
Discrete cable   Discrete cable   Discrete cable   Discrete cable   Digital signal converter (terminal module)   Discrete cable   Discr					0.75mm² tuno /mov		INIOUUIE SEIECIADIE	muependent	141-1111012002001E	FA1_CR3  07C0**E1E10
CC-Link IETSN series   NZ2GNZS1-16TE   Digital signal converter (terminal module)   Spring clamp   N/O contact relay   Module mixing possible   Independent   FA1-THIE16Y2RA2OS1E   FA3-CB1L**EM1F18Y   FA3-				Discrete cable		··				
CC-Link IETSN series  NZGN2S1-16TE  NZGN2S1-				lunction terminal block		y		1-wire tune	FA1_TE1QV16VV	
Digital signal converter (terminal module)  Positive common Digital signal converter (terminal block Digital signal converter (terminal module)  Positive common Digital signal converter (terminal block Digital signal converter (terminal module)  Positive common Digital signal converter (terminal block Digital signal converter (terminal module)  Positive common Digital signal converter (terminal block Digital signal converter (terminal module)  Positive common Digital signal converter (terminal block Digital signal converter (terminal module)  Positive common Digital signal converter (terminal block Digital signal converter (terminal module)  Positive common Digital signal converter (terminal block Digital signa				JUNEAU LEI IIIII DIOCK	opiniy Gallip	N/O contact relay	Module mixing possible			ING ODIL LIVITI 101
NZ2GN2S1-16TE    NZ2GN2S1-16TE   (terminal module)   Spring clamp   Transistor, 1.0A   Module mixing possible   Independent   FA1-THIE16Y1TR2OS1E   FA3-CB1L*EM2F34X     FA1-CB3L07SQ**EIF18   FA3-CB1L*EM2F34X     FA1-CB3L07SQ**EIF18   FA3-CB1L*EM2F34X     FA1-CB3L07SQ**EIF18   FA3-CB1L*EM2F34X     FA1-CB3L07SQ**EIF18     FA1-CB3L07SQ**EIF18   FA3-CB1L*EM2F34X     FA1-CB3L07SQ**EIF18   FA3-CB1L*EM2F34X     FA1-CB3L07SQ**EIF18   FA3-CB1L*EM2F34X     FA1-CB3L07SQ**EIF18   FA3-CB1L**EM2F34X     FA1-CB3L07SQ**EIF18   FA3-CB1L**EM2F34X     FA1-TH16X24RA1L2OS1E   FA3-CB1L**EM2F34X     FA1-TH16X24RA1L2OS1E   FA3-CB1L**EM2F34X     FA1-TH16X24RA1L2OS1E   FA3-CB1L**EM2F34X     FA1-TH16X24RA1L2OS1E   FA3-CB1L**EM2F34X     FA1-TH16X24RA1L2OS1E   FA3-CB1L**EM2F34X     FA1-CB3L07SQ**EIF34     FA1-CB3L07SQ**EIF34     FA1-CB3L07SQ**EIF34     FA1-CB3L07SQ**EIF34     FA1-CB3L07SQ**EIF34     FA1-TH16Y1R2OS1E   FA3-CB1L**EM2F34Y     FA1-CB3L07SQ**EIF34     FA1-TH16Y1R2OS1E   FA3-CB1L**EM2F34Y     FA1-CB3L07SQ**EIF34     FA1-TH16Y1R2OS1E   FA3-CB1L**EM2F34Y     FA1-CB3L07SQ**EIF34     FA1-CB3				Digital signal convertor				_		
Base unit   Module selectable   Independent   FA1-TH1E16Y2SC2OSTE		NZ2GN2S1-16TF			Spring clamp					FA3-CB1L**EM1F18Y
Discrete cable   Disc	series			,						
NZ2GN2S1-32D   Positive common   Digital signal converter (terminal module)   Spring clamp   24VDC N/O contact relay (negative common)   24VDC N/O contact relay (negative common)   Positive common   Digital signal converter (terminal module)   Positive common   Digital signal converter (terminal module)   Discrete cable   Digital signal converter (terminal module)   Positive common   Digital signal converter (terminal module)   Digital s				Discusts 11	0.75mm <sup>2</sup> type (max. 8			, ,		FA1-CB3L07SQ**E1F18
Junction terminal block  Positive common  NZ2GN2S1-32D  Positive common  Digital signal converter (terminal module)  Discrete cable  Discrete cable  NZ2GN2S1-32T  Junction terminal block  Discrete cable  Discrete cable  O.75mm² type (max. 4A)  Junction terminal block  Discrete cable  Discrete cable  O.75mm² type (max. 4A)  Discrete cable  Discrete cable  O.75mm² type (max. 4A)  Junction terminal block  Discrete cable  Digital signal converter (terminal module)  NZ2GN2S1-32T  Digital signal converter (terminal module)  Discrete cable  O.75mm² type (max. 8A)  Digital signal converter (terminal module)  Digital signal converter (term				Discrete cable						
NZ2GN2S1-32D  Positive common Digital signal converter (terminal module)  Positive common Diduce common Diduce selectable Independent Inde				Junction terminal block				1-wire type	FA1-TE1SV16XY	
NZ2GN2S1-32D  Positive common Digital signal converter (terminal module)  Discrete cable									FA1-TH16Y2//RA11 2001E	
NZ2GN2S1-32D   Digital signal converter (terminal module)   Spring clamp   24/U.b. W/U contact relay (negative common)   Base unit   Module selectable   Independent   FA1-TH16X24RA1H2OS1E   FA3-CB1L**EM2F34X   FA1-TH8X2SC2OS1E   FA-CBL**MMH20 (for distributing)   FA1-TH4X2SC2OS1E   FA-CBL**MMH20 (for distributing)   FA1-TH8X2SC2OS1E   FA-CBL**MMH20 (for distributing)   FA1-TH8X2SC2OS1E   FA-CBL**MMH20 (for distributing)   FA1-TH8X2SC2OS1E   FA-CBL**MMH20 (for distributing)   FA1-TB3L07SO**E1F34   FA1-CB3L07SO**E1F34   FA1-CB3L07SO**E1F34   FA1-CB3L07SO**E1F34   FA1-CB3L07SO**E1F34   FA1-TH16Y17R2OS1E   FA1-TH16Y17R2O							Module mixing nossible	Independent	IIIIOALTIIAILLUUIL	FA3-CB1L**EM2F34X
NZ2GN2S1-32D   (lefrillinal module)   Exercise Collision   Base unit   Module selectable   Independent   FA1-TH4X2SC20S1E   FA3-CB1L**EM2F34X   FA1-CB3L07SO**E1F34		NZONIOO: CCP	Positive common		Spring clamp		poondie	pondont	FA1-TH16X24RA1H20S1E	
Discrete cable  Discrete cable		NZ2GN2S1-32D		(terminal module)		(negative common)				FAO OD41++F110F041V
Discrete cable						Base unit	Module selectable	Independent		
Discrete cable   Disc					0.7Emm²+				ra1-1H8X2SC20S1E	
Junction terminal block  Digital signal converter (terminal module)  NZ2GN2S1-32T  Digital signal converter (terminal module)  Digital signal converter (t				Discrete cable			-			
NZ2GN2S1-32T    Digital signal converter (terminal module)   Digit				lunction terminal bla-1:		у	-	1_wire tone	EA1_TE1QV1QVV	
Digital signal converter (terminal module)  NZ2GN2S1-32T  Digital signal converter (terminal module)  Spring clamp  Triac, 1.0A  Module mixing possible independent independen				Julicuon terminal block	opring clamp	N/O contact role:	Modula miving sassible			FA3-UDIL EMZF34Y
NZ2GN2S1-32T (terminal module) Spring clamp Transistor, 1.0A Module mixing possible Independent FA1-TH16Y1TR2OS1E Base unit Module selectable Independent FA1-TH16Y2SC2OS1E  Discrete cable 0.75mm² type (max. 8A) FA1-CB3L07SQ**E1F34				Digital signal assurat-						
Base unit Module selectable Independent FA1-TH16Y2SC2OS1E  Discrete cable 0.75mm² type (max. 8A) FA1-CB3L07SQ**EIF34		N72GN2S1_32T			Spring clamp					FA3-CB1L**EM2F34Y
0.75mm² type (max. 8A) FA1-CB3L07SQ**E1F34		1422014201-921		(commut moudic)						
					0.75mm² tvne (may s			muchement	TATE THI OTZOUZUOTE	FA1-CB3L07S0**F1F34
ролин уро риши и у				Discrete cable						
				ı	3F- (110011-11					

Program	mable controller modu	lle name			Т	ime and wire savin	g device		
Series	Model	Common			Module type		J	Module	Connection cable
		'	Junction terminal block	Spring clamp	7.		1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
	NZ2GN2S1-32TE				N/O contact relay	Module mixing possible	Independent	FA1-TH1E16Y2RA20S1E	
			Digital signal converter	Spring clamp	Triac, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1SR20S1E	FA3-CB1L**EM2F34Y
			(terminal module)	Spring damp	Transistor, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1TR20S1E	FA3-CBTL EWIZE341
					Base unit	Module selectable	Independent	FA1-TH1E16Y2SC20S1E	
			Discrete cable	0.75mm <sup>2</sup> type (max. 8					FA1-CB3L07SQ**E1F34
		1		0.3mm2 type (max. 4A	l)				FA1-CB3L03SQ**E1F34
			Junction terminal block	Spring clamp	0.000.00		1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
					24VDC N/O contact relay (positive common)			FA1-TH16X24RA1L20S1E	
		Input side	Digital signal converter		24VDC N/O contact relay	Module mixing possible	Independent		FA3-CB1L**EM2F34Y
		input side	(terminal module)	Spring clamp	(negative common)			FA1-TH16X24RA1H20S1E	
			(					FA1-TH4X2SC20S1E	FA3-CB1L**EM2F34Y
	NZOONOO4 OODT				Base unit	Module selectable	Independent	FA1-TH8X2SC20S1E	FA-CBL**MMH20 (for distributing)
CC-Link IE TSN series	NZ2GN2S1-32DT		Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
361163					N/O contact relay	Module mixing possible	Independent	FA1-TH16Y2RA20S1E	
		Output side	Digital signal converter	Spring clamp	Triac, 1.0A	Module mixing possible	_	FA1-TH16Y1SR20S1E	FA3-CB1L**EM2F34Y
			(terminal module)		Transistor, 1.0A	Module mixing possible	Independent	FA1-TH16Y1TR20S1E	
				0.75mm²tma (may 0	Base unit	Module selectable	Independent	FA1-TH16Y2SC20S1E	FA1 CD2L07C0**F1F24
			Discrete cable	0.75mm <sup>2</sup> type (max. 8 0.3mm <sup>2</sup> type (max. 4A					FA1-CB3L07SQ**E1F34 FA1-CB3L03SQ**E1F34
		Input side	Junction terminal block	Spring clamp	y		1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
		input side	Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
			Canodon torrimal brook	opining diamp	N/O contact relay	Module mixing possible	Independent	FA1-TH1E16Y2RA20S1E	MO OSTE EMERCIT
	NITOONIOO CODTE	Output side	Digital signal converter		Triac, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1SR20S1E	F40 0041 ##F440F0404
	NZ2GN2S1-32DTE		(terminal module)	Spring clamp	Transistor, 1.0A			FA1-TH1E16Y1TR20S1E	FA3-CB1L**EM2F34Y
					Base unit	Module selectable	Independent	FA1-TH1E16Y2SC20S1E	
			Discrete cable	0.75mm² type (max. 8	SA)				FA1-CB3L07SQ**E1F34
				0.3mm2 type (max. 4A	A)				FA1-CB3L03SQ**E1F34
			Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34X
					24VDC N/O contact relay			FA1-TH16X24RA1L20S1E	
		Docitive common	Digital signal converter (terminal module)	Spring clamp	(positive common) 24VDC N/O contact relay	Module mixing possible	Independent		FA3-CB1L**EM2F34X
	NZ2MF2S1-32D	Positive common			(negative common)			FA1-TH16X24RA1H20S1E	
								FA1-TH4X2SC20S1E	FA3-CB1L**EM2F34X
					Base unit	Module selectable	Independent	FA1-TH8X2SC20S1E	FA-CBL**MMH20 (for distributing)
			D:	0.75mm <sup>2</sup> type (max. 8	BA)				FA1-CB3L07SQ**E1F34
			Discrete cable	0.3mm <sup>-</sup> type (max. 4A)					FA1-CB3L03SQ**E1F34
			Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
					N/O contact relay	Module mixing possible	Independent	FA1-TH16Y2RA20S1E	
			Digital signal converter	Spring clamp	Triac, 1.0A	Module mixing possible	Independent		FA3-CB1L**EM2F34Y
	NZ2MF2S1-32T		(terminal module)	opining diamp	Transistor, 1.0A	Module mixing possible	_	FA1-TH16Y1TR20S1E	-
				0.75 21 / 0	Base unit	Module selectable	Independent	FA1-TH16Y2SC20S1E	544 0D01 0700HF1504
			Discrete cable	0.75mm² type (max. 8A)				FA1-CB3L07SQ**E1F34	
			Junction terminal block	0.3mm <sup>2</sup> type (max. 4A Spring clamp	1)		1-wire type	FA1-TE1SV16XY	FA1-CB3L03SQ**E1F34 FA3-CB1L**EM2F34Y
			Juliculon terminal block	Spring Gamp	N/O contact relay	Module mixing possible		FA1-TH1E16Y2RA20S1E	FAS-CDTL EWIZF341
			Digital signal converter		Triac, 1.0A	Module mixing possible	<u> </u>	FA1-TH1E16Y1SR20S1E	
	NZ2MF2S1-32TE1		(terminal module)	Spring clamp	Transistor, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1TR20S1E	FA3-CB1L**EM2F34Y
			(		Base unit	Module selectable	Independent	<del> </del>	
			Discrete cable	0.75mm² type (max. 8A)				FA1-CB3L07SQ**E1F34	
CC-Link IE Filed				0.3mm2 type (max. 4A	N)				FA1-CB3L03SQ**E1F34
Basic series			Junction terminal block	Spring clamp	- uma 1110		1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
					24VDC N/O contact relay			FA1-TH16X24RA1L20S1E	
		Input side	Digital signal		(positive common) 24VDC N/O contact relay	Module mixing possible	Independent		FA3-CB1L**EM2F34Y
		input side	Digital signal converter (terminal module)	Spring clamp	(negative common)			FA1-TH16X24RA1H20S1E	
			,		, ,	Madda	lada .	FA1-TH4X2SC20S1E	FA3-CB1L**EM2F34Y
	NIJONEOO:				Base unit	Module selectable	Independent	FA1-TH8X2SC20S1E	FA-CBL**MMH20 (for distributing)
	NZ2MF2S1-32DT		Junction terminal block	Spring clamp			1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
					N/O contact relay	Module mixing possible	_	FA1-TH16Y2RA20S1E	
		Output side	Digital signal converter	Spring clamp	Triac, 1.0A	Module mixing possible	Independent	FA1-TH16Y1SR20S1E	FA3-CB1L**EM2F34Y
			(terminal module)	opining diamp	Transistor, 1.0A	Module mixing possible	Independent		- INO GETE EMETOTT
				2	Base unit	Module selectable	Independent	FA1-TH16Y2SC20S1E	
			Discrete cable	0.75mm² type (max. 8			-		FA1-CB3L07SQ**E1F34
		Innut side	lunction torminal block	0.3mm² type (max. 4A	N)		1 wire time	FA1-TE1SV16XY	FA1-CB3L03SQ**E1F34 FA3-CB1L**EM2F34Y
		Input side	Junction terminal block Junction terminal block	Spring clamp Spring clamp			1-wire type 1-wire type	FA1-TE1SV16XY	FA3-CB1L**EM2F34Y
			OGNICION COMMINA DIOCK	opiniy uanip	N/O contact relay	Module mixing possible		FA1-TH1E16Y2RA20S1E	INO ODIE LINEI J41
		Output side	Digital signal converter		Triac, 1.0A	Module mixing possible	-	FA1-TH1E16Y1SR20S1E	
	NZ2MF2S1-32DTE1		(terminal module)	Spring clamp	Transistor, 1.0A	Module mixing possible	Independent	FA1-TH1E16Y1TR20S1E	FA3-CB1L**EM2F34Y
					Base unit	Module selectable	_	FA1-TH1E16Y2SC20S1E	
			Discrete cable	0.75mm² type (max. 8					FA1-CB3L07SQ**E1F34
			PISCIETE PUBLE	0.3mm <sup>2</sup> type (max. 4A					FA1-CB3L03SQ**E1F34
	NZ2MF2S2-16A		Discrete cable	0.75mm² type (max. 8					FA1-CB3L07SQ**E1F34
	NZ2MF2S2-16R		S.Soroto oudito	0.3mm² type (max. 4A					FA1-CB3L03SQ**E1F34
CC Link IF Field	NZ2GFSS2-8D			0.75mm² type (max. 8	SA)				FA1-CB3L07SQ**E1F40
CC-Link IE Field series with safety	NZ2GFSS2-32D NZ2GFSS2-8TE		Discrete cable	_					
function	NZ2GFSS2-16DTE		S.Soroto oublo	0.3mm <sup>2</sup> type (max. 4A	N)				FA1-CB3L03SQ**E1F40
	NZ2EXSS2-8TE								

	Time and w	Time and wire saving device		
Series		Model		Connection cable
MELSEC iQ-R series	R60ADI8-HA			
MELSEC iQ-F series	FX5-4AD FX5-8AD FX5-4DA	FX5-8AD		FA1-CB2L**S1B2-4
CC-Link IE TSN series	NZ2GN2S-60AD4 NZ2GN2S-60DA4			
CC-Link IE Filed series	NZ2GF2S-60MD4	For voltage/current input		

### ■ Product list

## Cable with spring clamp terminal block

### Discrete cable type

		Specification	ıs					
No. of pins	Shape	Pin layout	Cross section	Cross sectional area (permissible current)		Weight	Model	
				2	1m	Approx. 115g	FA1-CB3L03SQ10E1F18	
		Numbers viewed from the terminal side	/— Insulator	0.3mm <sup>2</sup> (4A)	2m	Approx. 220g	FA1-CB3L03SQ20E1F18	
18-pin		1 81 10 81 11	Conductor	()	3m	Approx. 325g	FA1-CB3L03SQ30E1F18	
το-μπ			<b>(</b>		1m	Approx. 230g	FA1-CB3L07SQ10E1F18	
		9 8 18 View		0.75mm <sup>2</sup> (8A)	2m	Approx. 450g	FA1-CB3L07SQ20E1F18	
	7///			(67.1)	3m	Approx. 670g	FA1-CB3L07SQ30E1F18	
		Numbers viewed from the terminal side	Insulator Conductor	0.3mm <sup>2</sup> (4A)	1m	Approx. 220g	FA1-CB3L03SQ10E1F34	
					2m	Approx. 415g	FA1-CB3L03SQ20E1F34	
34-pin					3m	Approx. 610g	FA1-CB3L03SQ30E1F34	
34-pm				0.75mm <sup>2</sup> (8A)	1m	Approx. 430g	FA1-CB3L07SQ10E1F34	
					2m	Approx. 840g	FA1-CB3L07SQ20E1F34	
					3m	Approx. 1250g	FA1-CB3L07SQ30E1F34	
		Numbers viewed from the terminal side	Insulator	0.3mm <sup>2</sup> (4A)	1m	Approx. 260g	FA1-CB3L03SQ10E1F40	
					2m	Approx. 495g	FA1-CB3L03SQ20E1F40	
40-pin		-E1-140		(,	3m	Approx. 730g	FA1-CB3L03SQ30E1F40	
		20 83 40 W		0.75mm <sup>2</sup> (8A)	1m	Approx. 510g	FA1-CB3L07SQ10E1F40	
	-37				2m	Approx. 995g	FA1-CB3L07SQ20E1F40	
	7.	20 40 40			3m	Approx. 1480g	FA1-CB3L07SQ30E1F40	

#### Connector type

	Specifications						
lo. of pins	Shape	Cross section	Programmable controller to be connected	Length	Weight	Model	
				1m	Approx. 110g	FA1-CB1L10EM1F18	
			MELSEC iQ-R I/O module	2m	Approx. 210g	FA1-CB1L20EM1F18	
				3m	Approx. 310g	FA1-CB1L30EM1F18	
				1m	Approx. 110g	FA2-CB1L10EM1F18	
			MELSEC iQ-F sink I/O module	2m	Approx. 210g	FA2-CB1L20EM1F18	
		Cable jacket Twisted pair cable		3m	Approx. 310g	FA2-CB1L30EM1F18	
		Insulator		1m	Approx. 110g	FA2-CB1L10EM1F18E	
-pin		Conductor Insulator Conductor	MELSEC iQ-F source I/O module	2m	Approx. 210g	FA2-CB1L20EM1F18E	
				3m	Approx. 310g	FA2-CB1L30EM1F18E	
			CC-Link IE TSN input module  CC-Link IE TSN output module	1m	Approx. 110g	FA3-CB1L10EM1F18X	
				2m	Approx. 210g	FA3-CB1L20EM1F18X	
				3m	Approx. 310g	FA3-CB1L30EM1F18X	
				1m	Approx. 110g	FA3-CB1L10EM1F18Y	
				2m	Approx. 210g	FA3-CB1L20EM1F18Y	
				3m	Approx. 310g	FA3-CB1L30EM1F18Y	
				1m	Approx. 180g	FA1-CB1L10EM2F34	
			MELSEC iQ-R I/O module	2m	Approx. 290g	FA1-CB1L20EM2F34	
		Cable jacket Twisted pair cable		3m	Approx. 400g	FA1-CB1L30EM2F34	
	/ / / /	Insulator		1m	Approx. 180g	FA3-CB1L10EM2F34X	
-pin		Conductor	CC-Link IE TSN / CC-Link IE Field Basic input module	2m	Approx. 290g	FA3-CB1L20EM2F34X	
		I AMOS AX	input module	3m	Approx. 400g	FA3-CB1L30EM2F34X	
	W W /	Insulator		1m	Approx. 180g	FA3-CB1L10EM2F34Y	
	-		CC-Link IE TSN / CC-Link IE Field Basic output module	2m	Approx. 290g	FA3-CB1L20EM2F34Y	
			output module	3m	Approx. 400g	FA3-CB1L30EM2F34Y	

## Analog shielded cable with ferrules

	Specifications						
No. of pins	Shape	Cross section	Length	Weight <sup>11</sup>	Model <sup>*2</sup>		
2-pin		Sheath Wrapping tape	1m	Approx. 100g	FA1-CB2L10S1B2-4		
		Braided shield  Twisted pair cable Insulator Conductor	2m	Approx. 200g	FA1-CB2L20S1B2-4		
			3m	Approx. 300g	FA1-CB2L30S1B2-4		

<sup>\*1:</sup> Weight per cable

7

<sup>\*2:</sup> Model for four FA1-CBL\*\*S1B2 cables

#### **■** Cable specifications

#### Cable with spring clamp terminal block

#### Discrete cable type

Item	Specifications				
item	0.3mm <sup>2</sup> (4A)	0.75mm² (8A)			
Mark tube	Provided (printing: 1 to 18, 1	Provided (printing: 1 to 18, 1 to 34, or 1 to 40)			
Cable	Stranded wire (heat resistant vinyl chloride, blue): 18, 34, or 40 wires				
Conductor nominal cross sectional area	0.3mm² (22 AWG)	0.75mm² (18 AWG)			
Conductor	17 wires/0.16mm	34 wires/0.18mm			
Insulator outer diameter	1.6mm	2.1mm			
Cable outer diameter	_	_			
Maximum current	4A	8A			
Conductor resistance (20°C)	0.0586Ω/m or less	0.0235Ω/m or less			
Dielectric strength voltage	1500VAC for 1 minute				
Insulation resistance	5MΩ·km or more				
UL standard (cable area)	UL STYLE No.1007 80°C 300V				

#### Connector type

Item	Specifications				
nem	18-pin connector	34-pin connector			
Connector on the programmable	Spring clamp terminal type	Spring clamp terminal type			
controller side	18-pin connector	34-pin connector			
Connector on the junction terminal block side	MIL20P connector	MIL20P connector × 2			
Cable type	20 core cable (black)	40 core cable (black)			
Conductor nominal cross	0.08mm² (28 AWG)				
sectional area	10.00Hilli (26 AWG)				
Conductor	7 wires/0.127mm				
Insulator outer diameter	0.88mm				
Cable outer diameter	8.1mm	9.5mm			
Rated current	1A				
Conductor resistance (20°C)	0.232Ω/m or less				
Dielectric strength voltage	500VAC for 1 minute				
Insulation resistance	100MΩ·km or more				
UL standard (cable area)	UL STYLE No.2464 80°C 300V				

#### Analog shielded cable with ferrules

	Item	Specifications			
Solderless	Analog signal cable	Ferrule terminal (Al 0,34-10 TQ)			
terminal	SLD cable	M4 round solderless terminal			
Cable type		One pair (2 core) shielded twisted pair cable (black)			
Conductor is sectional an	nominal cross ea	0.3mm² (22 AWG)			
Conductor		60 wires/0.08mm			
Insulator ou	ter diameter	0.75mm			
Cable outer	diameter	4.9mm			
Conductor i	esistance (20°C)	0.072Ω/m or less			
Dielectric strength voltage		2000VAC for 1 minute			
Insulation re	sistance	100MΩ·km or more			
UL standard (cable area)		UL STYLE No.2464 80°C 300V			

### ■ Related catalogs

#### Digest edition



#### Time and wire saving devices



The company names and product names mentioned in this document are either registered trademarks or trademarks of their respective companies.

## MITSUBISHI ELECTRIC ENGINEERING COMPANY LIMITED

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

#### Precautions for Choosing the Products

Mitsubishi Electric Engineering will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric Engineering; opportunity losses or lost profits caused by faults in the Mitsubishi Electric Engineering products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi Electric Engineering; damages to products other than Mitsubishi Electric Engineering products; and to other duties.

#### For safe use

- •To use the products given in this publication properly, always read the relevant manuals before beginning
- The products have been manufactured as general-purpose parts for general industries, and are not designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the products for special purposes such as nuclear power, electric power, aerospace, medicine or passenger-carrying vehicles, consult with Mitsubishi Electric Engineering.
- The products have been manufactured under strict quality control. However, when installing the products where major accidents or losses could occur if the products fail, install appropriate backup or fail-safe functions in the system.