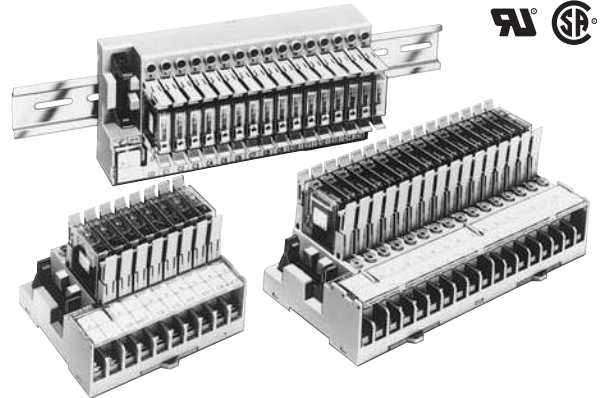


I/O Relay Terminal G7TC

CSM_G7TC_DS_E_1_2

Single Cable Connection to PLC Means Space is Saved and Less Control Panel Wiring is Required.

- Compact size: 182 (W) × 85 (D) × 68 (H) mm (8-point Output Block width is 102 mm).
- Connects to the PLC through the connecting cable (G79 Series) and connector, and requires only a snap-in operation.
- Surge suppressor circuit built-in.
- Immediate recognition of I/O signal status using LED operation indicators.
- G3TA I/O Solid-state relay can be mounted instead of G7T.
- Mounts easily on a DIN track.
- Approved by UL, CSA (except for G7TC-OC16-1).



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

I/O Relay Terminal

When your order, specify the rated voltage.

I/O classification	I/O points	Internal I/O circuit common	Rated voltage	Model
Input	16	NPN (– common)	12 VDC	G7TC-ID16
			24 VDC	
			100 (110) VDC	G7TC-IA16
			100 (110) VAC	
			200 (220) VAC	
Output	16	NPN (+ common)	12 VDC	G7TC-OC16
			24 VDC	
		PNP (– common)	12 VDC	G7TC-OC16-1 *
			24 VDC	
	8	NPN (+ common)	12 VDC	G7TC-OC08
			24 VDC	

Note: When ordering, add the rated coil voltage to the model number.

Example: G7TC-ID16 24 VDC

Rated coil voltage

* Not approved by UL, CSA.

Accessories (Order Separately)

Connecting Cables XW2Z-R

- Cable with Loose Wire and Crimp Terminals: XW2Z-RY□C
- Cable with Loose Wires: XW2Z-RA□C
- Cable with Fujitsu connectors (1:1): XW2Z-R□C
- (1:2): XW2Z-RI□C-□
- (1:3): XW2Z-RO□C-□
- (1:3): XW2Z-R□C-□-□
- Cable with MIL connectors (1:1): XW2Z-RI□C
- (1:2): XW2Z-RO□C
- (1:2): XW2Z-RI□-□-D□
- (1:2): XW2Z-RM□-□-D□
- (1:2): XW2Z-RO□-□-D1

Refer to *Applicable Cables* on page 12 for details.

Shorting Bar

Model
G78-04

Output Short-Circuit Module

Model
G77-S

Socket

Model
P7TF-05

Indicator Module (With Surge Suppressing Function)

	Model	Applicable relay coil voltage	Remarks
For AC relay	P70A	100 (110) V AC	Varistor surge suppression
		200 (220) V AC	
For DC relay	P70D	12/24 V DC	Diode surge suppression

Note: 1. Order the indicator module suitable for the relay coil voltage.

2. The indicator module for DC relays can be used with a 12-V or 24 V DC power supply.

Rail Mounting

For details, refer to PFP-□.

Model Number Legend

A G7TC I/O Relay Terminal is a combination of (8 or 16) G7T I/O Relays with SPST-NO specifications and a P7TF I/O Terminal.

G7TC-

1 2 3 4

1. Input/Output Classification

- I: For input
- O: For output

2. Type of I/O Signal

- A: AC coil type for input relays mounted (Input/Output Classification: I)
- D: DC coil type for input relays mounted (Input/Output Classification: I)
- C: Contact output for output relays mounted (Input/Output Classification: O)

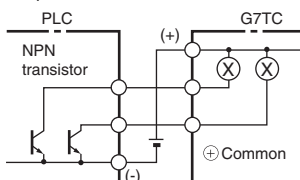
3. Number of I/O Points

- 16: 16 points
- 08: 8 points (for output only)

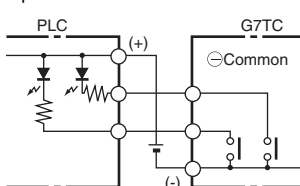
4. Internal I/O Circuit Common

Blank: NPN

Output

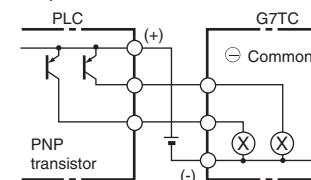


Input



1: PNP

Output



Specifications

Coil Ratings (Common to Input/Output per Relay)

Item		Rated current (mA)		Coil resistance (Ω)	Must operate	Must release	Maximum voltage	Power consumption	
		50 Hz	60 Hz		of rated voltage			per Relay	per 16 Relays
AC	100/(110) 200/(220)	8.2/– 4.1/–	7/7.7 3.5/3.85	8,700 33,300	80% max.	30% min.	105%	0.7 VA	11 VA
DC	12	42		290	80% max.	10% min.	105%	0.5 W	8 W
	24	21		1,150					
	100/110	5		20,000					

- Note:**
- The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of 15%/-20% for AC rated current and ±15% for coil resistance.
 - The operating characteristics are measured at a coil temperature of 23°C.
 - The value for maximum voltage is the maximum value within the allowable voltage fluctuation range for the relay coil's operating power supply. Continuous operation at this voltage is not within product specifications.
 - Approx. 4 mA flows into each LED indicator. To calculate the power supply capacity, add the current value of each LED indicator.
 - When the G7TC is used with an AC rated voltage, three rated currents can be used. If a coil voltage of 110 or 220 VAC is used, 50 Hz cannot be used.

Contact Ratings (G7T I/O Relay)

Classification	For input		For output	
	Resistive load (cosφ=1)	Inductive load (cosφ=0.4 L/R=7 ms)	Resistive load (cosφ=1)	Inductive load (cosφ=0.4 L/R=7 ms)
Item				
Rated load	1 A at 24 VDC	0.5 A at 24 VDC	5 A at 24 VDC 2 A at 220 VAC	2 A at 24 VDC 1 A at 220 VAC
Rated carry current	1 A		5 A	
Max. switching voltage	250 VAC, 125 VDC			
Max. switching current	1 A	0.5 A	5 A	2 A
Error rate (reference value) *	100 μA at 1 V		10 mA at 5 V	
Electrical life expectancy	10,000,000 operations (at 10 mA) 50,000 operations (at 1 A)	2,500,000 operations (at 10 mA) 20,000 operations (at 1 A)	1,000,000 operations (under rated load)	
Mechanical life expectancy	50,000,000 operations			

* The above values are for a switching frequency of 120 operations/min.

Characteristics

Model		G7TC-IA16 (Input, AC coil)	G7TC-ID16 (Input, DC coil)	G7TC-OC16 (–1) (output, DC coil)	G7TC-OC08 (output, DC coil)
Item					
Contact form		SPST-NO × 16			SPST-NO × 8
Contact mechanism		Bifurcated crossbar contact		Single contact	
Contact material		Au cladding + Ag		AgInSn	
Contact resistance *1		50 mΩ max.			
Must Operate time *2		15 ms max.			
Release time *2		15 ms max.			
Max. switching frequency	Mechanical limit	18,000 operations/hour			
	At rated load	1,800 operations/hour			
Insulation resistance		100 MΩ (at 500 VDC)			
Dielectric strength	Between coil and contact	2,000 VAC, 50/60 Hz for 1 minute			
	Between same polarity contacts	1,000 VAC, 50/60 Hz for 1 minute			
	Between paired connectors *3	250 VAC, 50/60 Hz for 1 minute			
Vibration resistance		10 to 55 to 10 Hz with 0.5-mm single amplitude (1.0-mm double amplitude)			
Shock resistance		200 m/s ²			
Noise immunity		Noise level: 1.5 kV; pulse width: 100 ns to 1 μs			
Rated voltage between positive and negative terminal blocks		Rated voltage of controller's (PLC or other) input circuit		12 VDC +5% 24 VDC +5%	
Rated current between positive and negative terminal blocks		Input circuit current of controller (PLC or other) × number of ON points		12 VDC: 46 mA × number of ON points 24 VDC: 25 mA × number of ON points	
Cable length *4	To controller	5 m max. (reference value)			
	To I/O devices	50 m max. (reference value, for 2-mm ² CVV cable)		Dependent on load	
Ambient operating temperature		0 to 55°C			
Ambient operating humidity		35% to 85% (with no icing or condensation)			
Tightening torque for external connections		0.78 to 1.18 N·m			
Tensile strength		No damage when a tensile force of 49 N is applied in each direction. In the direction of the track, the tensile strength is 9.8 N min.			
I/O terminal tightening torque		Tightening strength: 0.98 N·m; Tensile strength 49 N per minute			
LED color		Red		Green	
Case color		Transparent red		Transparent green	
Coil surge absorber		Varistor		Diode (1 A, 1,000 V)	
Weight		Approx. 640 g		Approx. 670 g	
				Approx. 350 g	

Note: The above values are initial values.

*1. Measurement condition: 1 A at 5 VDC.

*2. Ambient temperature: 23°C.

*3. This is between connector pin No. 10 and 20, and between connector pin No. 9 and 19.

*4. Connecting cables up to 5 m are available as standard products. For longer cables, enquire separately.

UL and CSA Standards

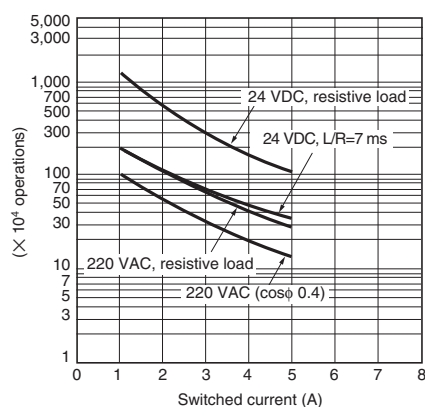
Standard G7TC I/O Relay Terminal, except for the G7TC-OC16-1 and the G7TC-OC08, have met UL and CSA standards (UL file no. E95399; CSA file no. LR35535).

Note that the following UL- and CSA-qualifying ratings differ from the performance characteristics of the individual models:

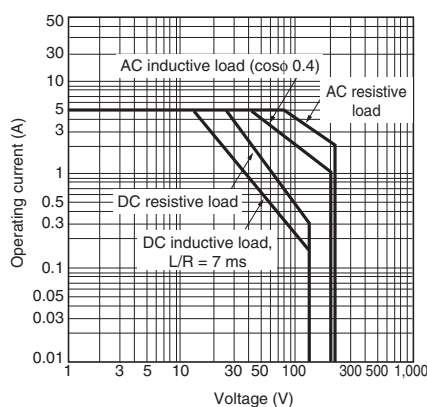
Model	Coil ratings	Contact ratings
G7TC-ID16, G7TC-IA16	10 mA/point, 24 VDC	250 VAC max.
G7TC-OC16	Coil drive current, 24 VDC	Inductive load: 10 A, 250 VAC Resistive load: 10 A, 30 VDC Rated horsepower: 1/2 HP, 240 VAC

Engineering Data (Reference Value)

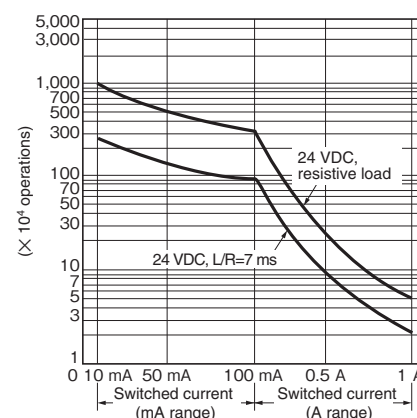
Life Expectancy of Output



Max. Switching capacity of Output (Life expectancy: 1,000,000 operations)



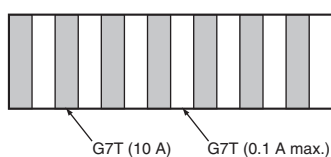
Life Expectancy of Input



Note: These data are actual measured values that were sampled from the production line and prepared in graph format, and are for reference purposes only. A relay is manufactured by mass production, and as a basic rule must be used with allowance made for a certain amount of deviation.

Example for Output Block (for Reference)

If a G7T I/O Relay is mounted in every other position on an Output Block (see drawing), a resistive load of 10 A (24 VDC) can be switched. Note that the service life is reduced to 150,000 operations in this case.

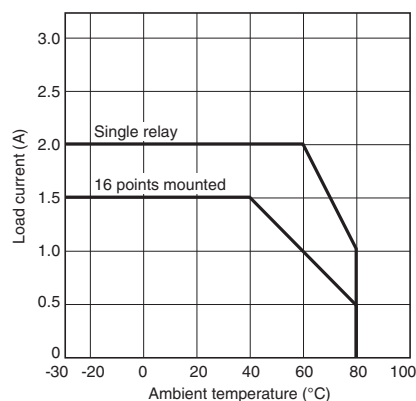


Load Current vs. Ambient Temperature

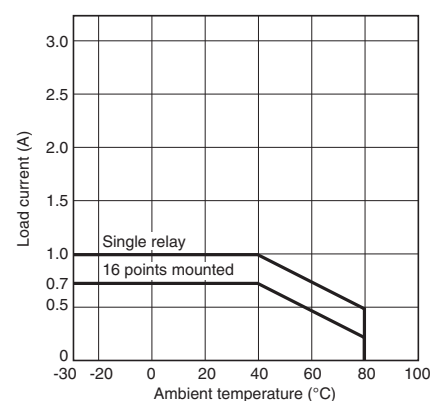
G3TA-OA202SZ

G3TA-OA202SL

G3TA-ODX02S



G3TA-OA201S

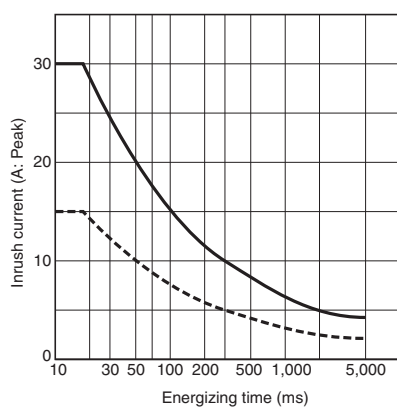


Inrush Current

The following graphs show the maximum inrush currents that can be withstood for non-repetitive operation. For repetitive operation, the figures should be reduced by half.

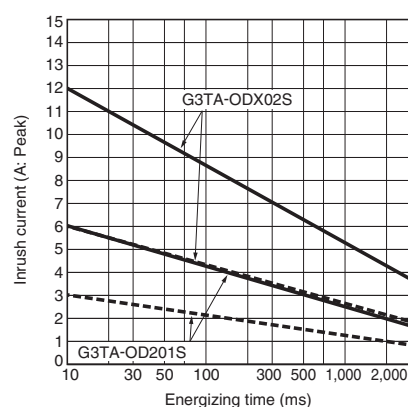
G3TA-OA202SZ

G3TA-OA202SL



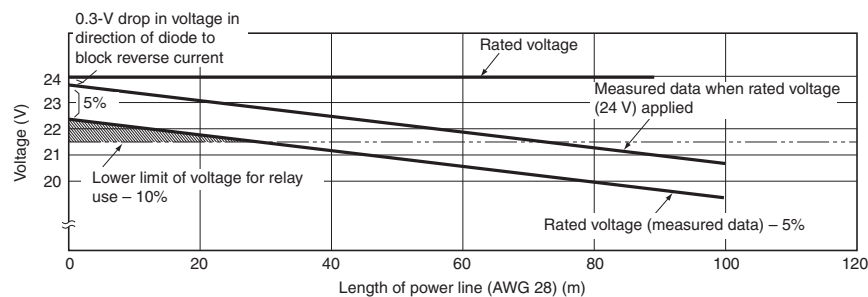
G3TA-ODX02S

G3TA-OD201S



Cable Length

The following graph gives reference values for the relationship between cable length and voltage in the case where the voltage fluctuation of the power supply is 5%.

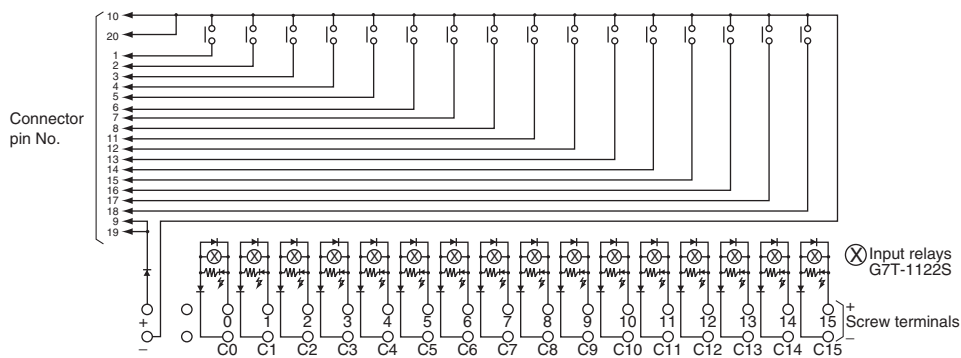
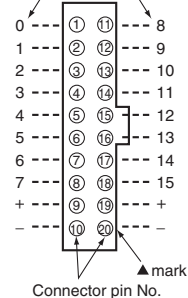


Terminal Arrangement/Internal Connection

G7TC-ID16 (NPN input/- common)

Connector Pin Configuration Top View

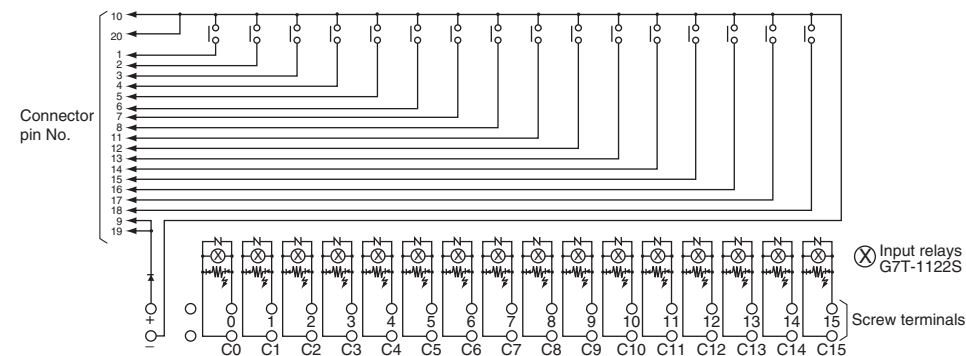
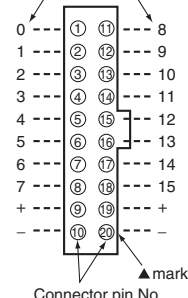
I/O indications on Screw Terminals



G7TC-IA16 (NPN input/- common)

Connector Pin Configuration Top View

I/O indications on Screw Terminals



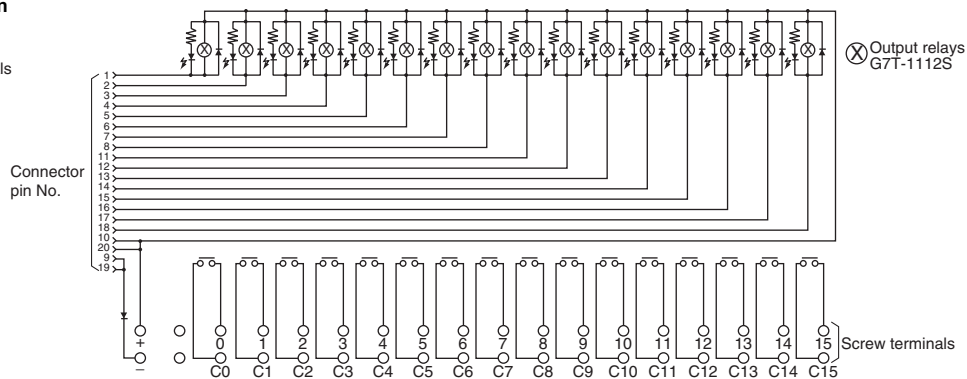
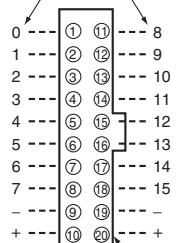
Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

G7TC-OC16 (NPN output/+ common)

Note: A controller with an NPN transistor, common output can be connected to the G7TC-OC16.

**Connector Pin Configuration
Top View**

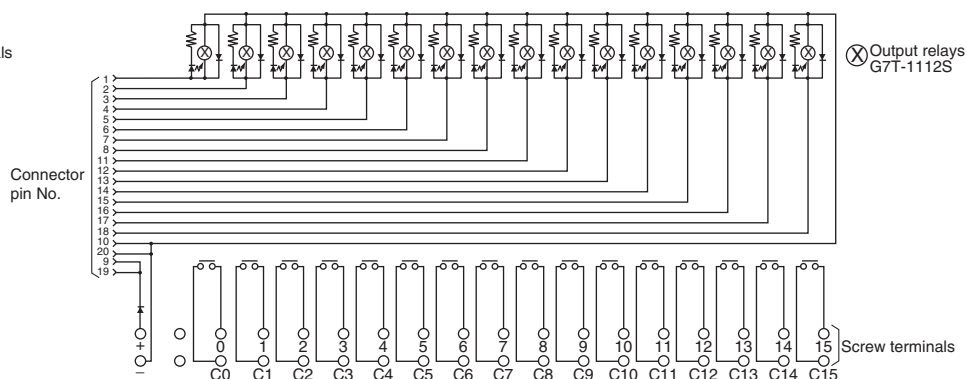
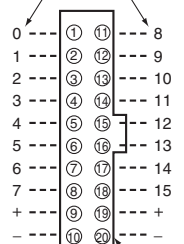
I/O indications on Screw Terminals

**G7TC-OC16-1 (PNP output/- common)**

Note: A controller with a PNP transistor, + common output can be connected to the G7TC-OC16-1. Do not connect the G71 Remote Interface to the G7TC-OC16-1. Due to the difference in polarity, the G71 will be damaged if the G7TC-OC16-1 and the G71 are connected to each other. Use the G7TC-OC16 (NPN output/+ common) instead, to connect to the G71.

**Connector Pin Configuration
Top View**

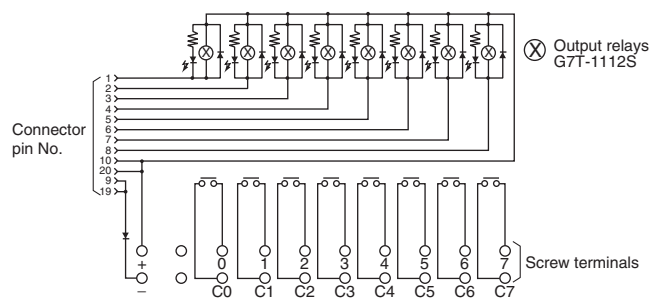
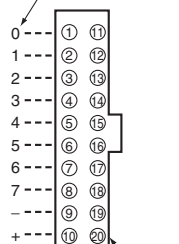
I/O indications on Screw Terminals

**G7TC-OC08 (NPN output/+ common)**

Note: A controller with an NPN transistor, -common output can be connected to the G7TC-OC08.

**Connector Pin Configuration
Top View**

I/O indications on Screw Terminals

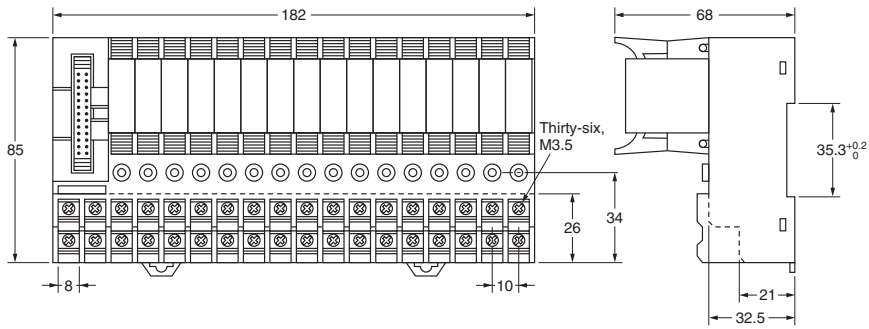
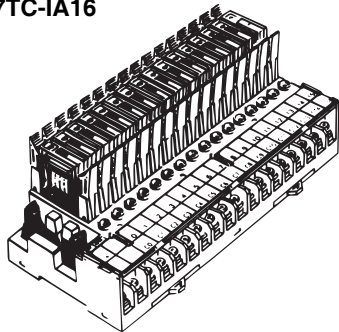


Note: Pin numbers are indicated for convenience. The ▲ mark can be used to determine orientation.

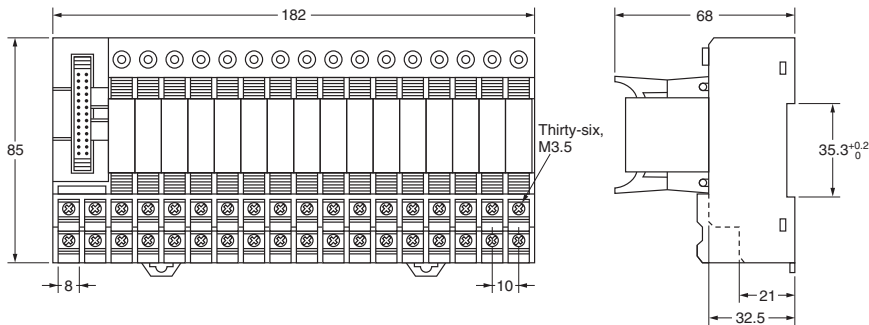
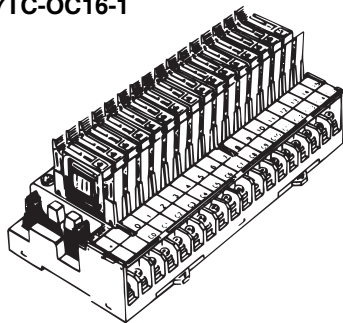
Dimensions

I/O Relay Terminal

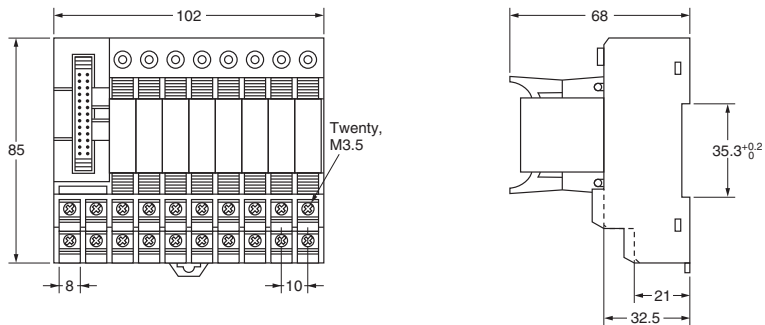
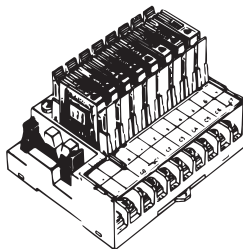
G7TC-ID16
G7TC-IA16



G7TC-OC16
G7TC-OC16-1



G7TC-OC08



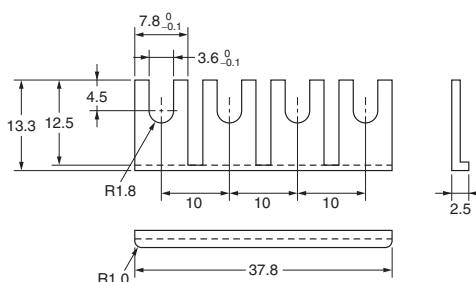
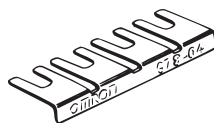
Accessories (Order Separately)

Shorting Bar

G78-04

Use this piece for short-circuiting across terminals.

Max. current flow: 20 A

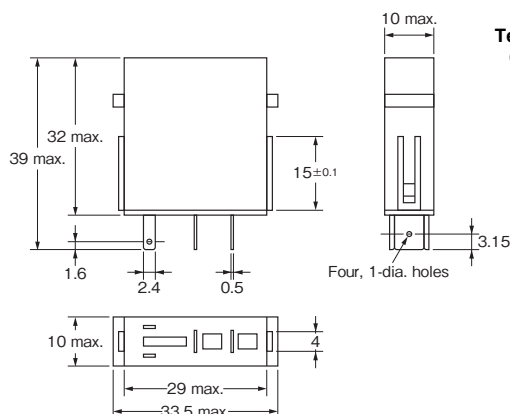
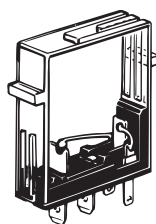


Output Short-Circuit Module

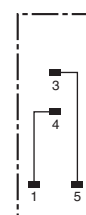
G77-S

The output of the I/O Relay Terminal can be obtained without relays through the G77-S Output Short-Circuit Module.

Note that the G77-S Output Short-Circuit Module is not available for inputs.



Terminal Arrangement/Internal Connections (Bottom View)



(There is no coil polarity.)

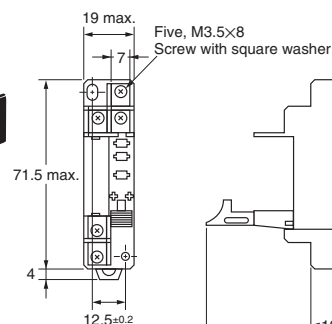
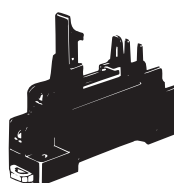
Socket

P7TF-05

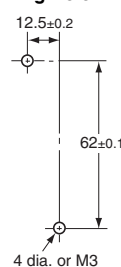
The G7T (SPST-NO, SPST-NC, and SPDT types) and the G3TA I/O Relays can be mounted on the P7TF-05 Socket. The P7TF-05 can be used for applications involving sequences that require slim relays, or to enable use of SPDT relays with the I/O Relay Terminal. To use part of the I/O Relay Terminal with SPDT specifications, insert an Output Short-Circuit Module into the I/O Relay Terminal, and use the P7TF-05 Socket in combination with an SPDT Relay for the Module's output.

Specifications

Contact resistance	10 mΩ max. (measured at 5 V DC, 1 A)
Dielectric strength	2,000 VAC for 1 minute
Insulation resistance	1,000 MΩ min. (at 500 V)
Vibration resistance	10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude)
Shock resistance	1,000 m/s ²
Ambient temperature	Operating: -40 to 70°C (with no icing or condensation)
Ambient humidity	5% to 85% RH
Weight	Approx. 28 g

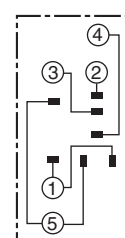


Mounting Hole Dimensions



Note: Terminal 1 is positive when the G3TA or Indicator Module is employed.

Internal Connections (Top View)

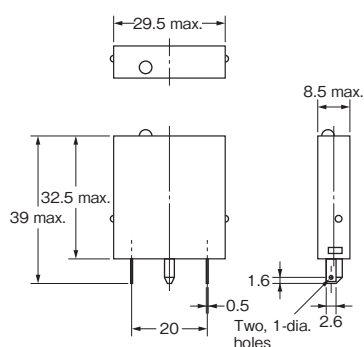
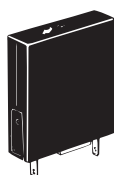


Note: Terminal 1 is positive when the I/O SSR is employed.

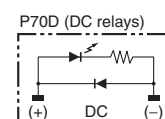
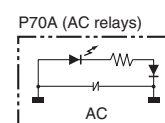
Indicator Module (With Surge Suppressing Function)

P70□

Remove the transparent style strip of the P7TF-05 socket and mount this module and it will function as an operation indicator with the surge suppression.



Internal Connection



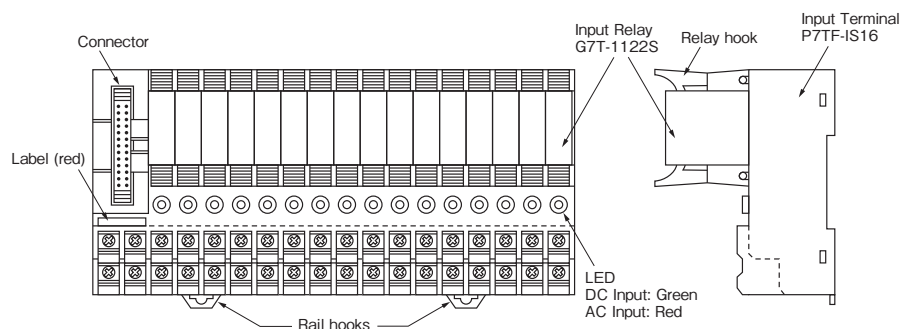
(There is no coil polarity for AC relays.)

I/O Relay Terminal Details

Input

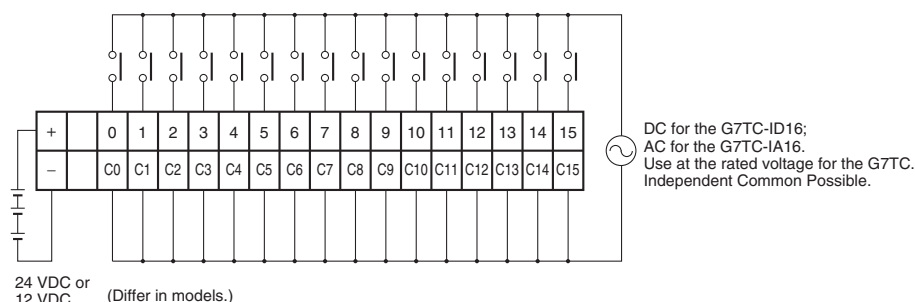
G7TC-ID16

G7TC-IA16



- Supply power to terminals 0 through 15 and C0 through C15 according to the voltage specifications of the I/O Relays and I/O Relay Terminal. Do not reverse positive and negative terminals on the DC Input Block (0 through 15 are positive; C0 through C15, negative). Shorting bars are available.
- Supply to the power terminal (positive and negative) the rated voltage of the controller's input circuits (24 VDC or 12 VDC). Use a low-noise power source.
- When using a Connecting Cable with two connectors, be sure to use the Cable for Input Blocks. Using the Cable for Output Blocks may result in malfunction or damage to the product.
Connecting Cable: G79-□C-□
Tape Color: Red

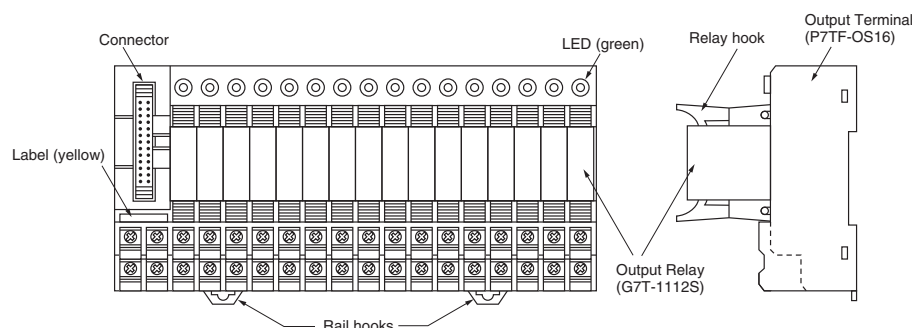
External connections



Output

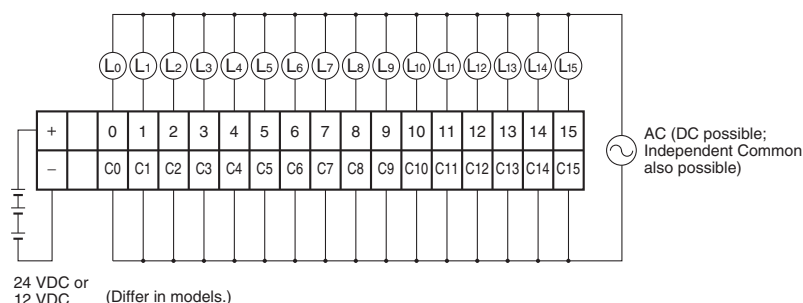
G7TC-OC16(-1)

G7TC-OC08



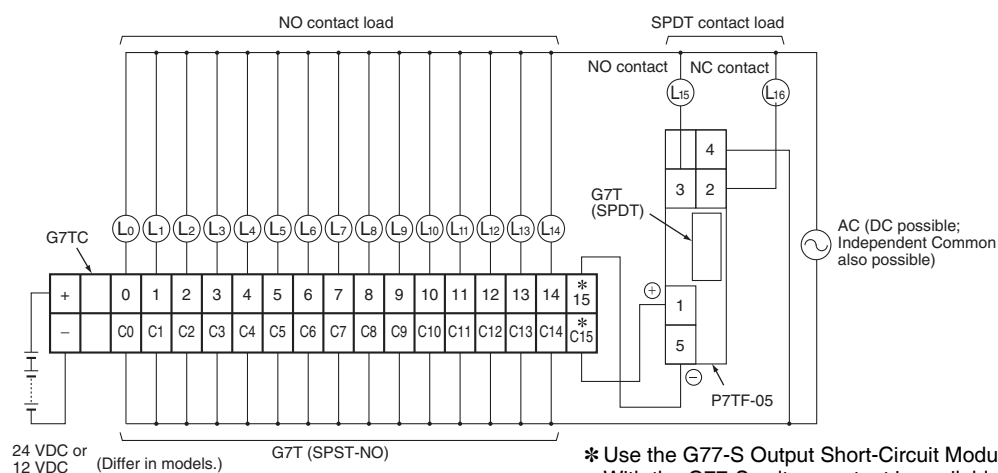
- There are voltage specifications for the Relays and Terminals. Depending on the controller connected, select either 12 or 24 VDC.
- Supply power to contact output terminals 0 through 15 and C0 through C15 according to the requirements of the loads. A 4 terminal Shorting Bar is available.
- Supply to the power terminals (positive and negative) power both for driving the relays and for controller output transistors. Match the controller and I/O Relay Terminal voltage specifications. Use a low- noise power source.
- When using a Connecting Cable with two connectors, be sure to use the Cable for Output Blocks. Using the Cable for Input Blocks may result in malfunction or damage to the product.
Connecting Cable: G79-O□C-□
Tape Color: Yellow
- Output Block Unit G7TC-OC08 does not have terminals 8 through 15 and C8 through C15. Although a 20-pin connector is used, pins 11 through 18 are not connected.
- When an I/O SSR (G3TA-OD□□) is mounted, terminals 0 to 15 will be positive.

External connections



Connection Example for SPDT Relays

The following is an application example for the P7TF-05 using an SPDT Relay on a terminal of the G7TC-□□16(-1).



* Use the G77-S Output Short-Circuit Module in place of the G7T I/O Relay.
With the G77-S voltage output is available between terminals 15 and C15.
The maximum current is determined according to the controller.

Note: If more than one G77-S Output Short-Circuit Module is employed, the voltage output of the terminals on the G7TC is as follows:

G7TC-OC16: The positive side (the lower row) connects to the common line internally.

G7TC-OC16-1: The negative side (the upper row) connects to the common line internally.

Safety Precautions

Refer to Common Precautions for I/O Relay Terminal.

General

I/O Relays and I/O Relay Terminal can be combined as follows to form I/O Relay Terminal:

	I/O Relay Terminal	I/O Relay		I/O SSR #2	Terminal (Socket) #3
DC output	G7TC-OC16 G7TC-OC16-1 G7TC-OC08	G7T-1112S (SPST-NO type) *1 G7T-1012S (SPST-NC type)	AC	G3TA-OA202SZ G3TA-OA202SL	P7TF-OS16 P7TF-OS16-1 P7TF-OS08
			DC	G3TA-ODX02S G3TA-OD201S	
DC input	G7TC-ID16	G7T-1122S *1	DC	G3TA-IDZ002 (M)	P7TF-IS16 (DC type)
AC input	G7TC-IA16		AC	G3TA-IAZR02S	P7TF-IS16 (AC type)

*1. These are the I/O Relays mounted on the G7TC I/O Relay Terminal.

*2. To use I/O SSRs, remove the I/O Relays and mount the I/O SSRs to the slots where the I/O Relays were mounted. Or, order and combine a P7TF I/O Terminal and I/O SSRs.

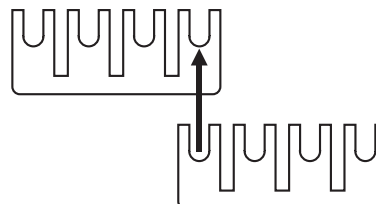
*3. The P7TF I/O Terminal provides only sockets. It does not have Relays mounted to it. Mount I/O Relays or I/O SSRs to the sockets. Specify the rated voltage in the same way as when ordering the G7TC I/O Relay Terminal.

- Combinations of AC Input Relays/SSRs and DC Input Relays/SSRs cannot be used with the same Terminal. This is because specifications for coil surge suppression elements are different. Relays/SSRs with different voltage specifications cannot be used with the same Terminal. (For example, a 100-VAC Input Relay and a 200-VAC Input Relay, or a 12-VDC Output Relay and a 24-VDC Output Relay cannot be used with the same Terminal.) This is because specifications of operation indicator circuits are different.
- Only use I/O Terminals, I/O Relays, and I/O SSRs with the same specifications for rated voltage.
- I/O Relay Terminal are color coded, as shown below, according to input/output and AC/DC specifications.

		I/O Terminal label	I/O Terminal indicators	I/O Relay case
Output Block	DC	Yellow	Green	Transparent
	AC	Red	Red	Red

- Both Input and Output Blocks do not have internal power supplies. For an Output Block, supply the relay drive power to the positive and negative terminals (either 12 or 24 VDC). Loads (terminal contacts 0 through 15) must also be supplied with appropriate power. For an Input Block, supply, to the positive and negative terminals, power for input signals to the controller.
- The same Connecting Cable, G79-Y, is used for the G7TC-OC08 eight-point Output Block as for other I/O Relay Terminal; leave 8 points unconnected.
- Indicators indicate the presence or absence of signals. Use the display lever inside each relay for fault diagnosis. (Some relays do not have this lever depending on the specifications.)
- Each relay must be pressed down until its hold-down hooks engage completely. Heating or malfunction can result if relays are not mounted properly.
- Unlabeled terminals are not electrically connected. Use these for repeater terminals.
- Indicator positions and relay orientation differ between Input and Output Blocks. This is to aid in differentiating Input Blocks from Output Blocks and in following signal flow.
- DC Input Blocks and Output Blocks with G3TA-OD□□□□ have positive and negative terminals, with the positive terminals normally being on the top of the I/O Relay Terminal. Reversing positive and negative terminals will prevent operation.

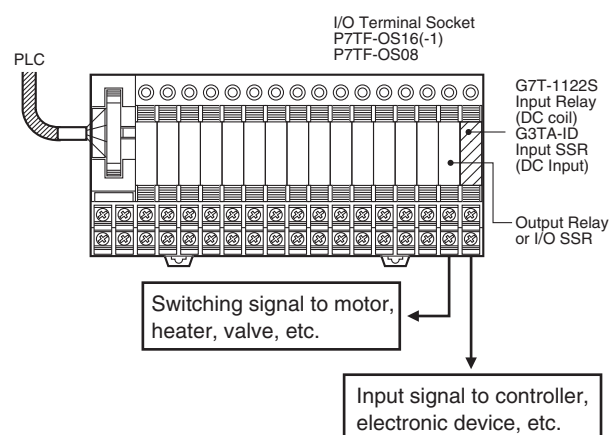
- DIN tracks are generally used to mount I/O Relay Terminal. For screw mounting, a 210-mm DIN track is available that can be used as an adapter in combination with End Plates (PFP-M, two required).
- A Shorting Bar is provided to connect four terminals. The current capacity of the shorting bar is 20 A. As long as this current capacity is not exceeded, the shorting bar can be used in combination as shown at the right to connect more than four terminals.



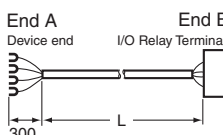
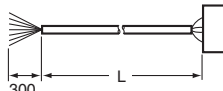
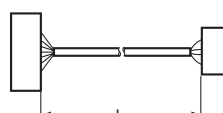
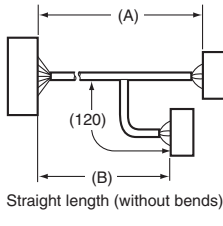
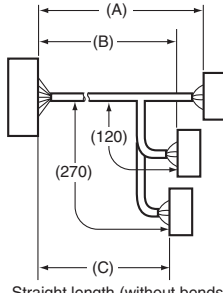

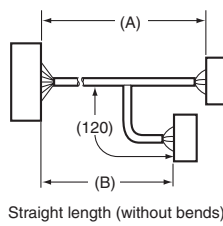
- Special Connecting Cables are provided for connections to OMRON PLC I/O Units with Connectors. Connecting Cables with two connectors, however, come in two types: Cables for Input Blocks (G79-I) and Cables for Output Blocks (G79-O). Be sure to purchase the correct Cable for the application.

Microload Switching

Input Relays (DC coil type) and I/O SSRs (DC input type) can be mounted onto an Output Block. Doing so enables using controller programming to simultaneously switch on or off two outputs (DPST-NO operation) to switch a SPST-NO load that in turn switches another SPST-NO load. One configuration for this is shown below.



Applicable Cables

Name		Appearance	Cable length L (mm)		Connecting Cables	Applicable Connectors	
Cables with Loose Wires and Crimp Terminals XW2Z-RY□C	16 I/O points		1,000		XW2Z-RY100C	Various devices	
			1,500		XW2Z-RY150C		
			2,000		XW2Z-RY200C		
			3,000		XW2Z-RY300C		
			5,000		XW2Z-RY500C		
Cables with Loose Wires XW2Z-RA□C	16 I/O points		2,000		XW2Z-RA200C	Various devices	
			5,000		XW2Z-RA500C		
Cables with Connectors (1:1) XW2Z-R□C	16 I/O points		1,000		XW2Z-R100C	PLC I/O Units with Fujitsu connectors (1:1)	
			1,500		XW2Z-R150C		
			2,000		XW2Z-R200C		
			3,000		XW2Z-R300C		
			5,000		XW2Z-R500C		
Cables with Connectors (1:2) XW2Z-RI□C-□, XW2Z-RO□C-□	32 input points		(A) 1,000	(B) 750	XW2Z-RI100C-75	PLC I/O Units with Fujitsu connectors (1:2)	
			(A) 1,500	(B) 1,250	XW2Z-RI150C-125		
			(A) 2,000	(B) 1,750	XW2Z-RI200C-175		
			(A) 3,000	(B) 2,750	XW2Z-RI300C-275		
			(A) 5,000	(B) 4,750	XW2Z-RI500C-475		
	32 output points		(A) 1,000	(B) 750	XW2Z-RO100C-75		
			(A) 1,500	(B) 1,250	XW2Z-RO150C-125		
			(A) 2,000	(B) 1,750	XW2Z-RO200C-175		
			(A) 3,000	(B) 2,750	XW2Z-RO300C-275		
			(A) 5,000	(B) 4,750	XW2Z-RO500C-475		
			Straight length (without bends)				
Cables with Connectors (1:3) XW2Z-R□C-□-□	48 I/O points		(A) 1,500	(B) 1,250	(C) 1,000	XW2Z-R150C-125-100	PLC I/O Units with Fujitsu connectors (1:3)
			(A) 2,000	(B) 1,750	(C) 1,500	XW2Z-R200C-175-150	
			(A) 3,000	(B) 2,750	(C) 2,500	XW2Z-R300C-275-250	
			Straight length (without bends)				
Cables with Connectors (1:1) XW2Z-RI□C, XW2Z-RO□C	16 input points		250		XW2Z-RI25C	PLC I/O Units with MIL connectors (1:1)	
	500		XW2Z-RI50C				
	16 output points		250		XW2Z-RO25C		
			500		XW2Z-RO50C		
Cables with Connectors (1:2) XW2Z-RI□-□-D1, XW2Z-RO□-□-D1, XW2Z-RM□-□-D1, XW2Z-RI□-□-D2, XW2Z-RM□-□-D2	32 input points		(A) 500	(B) 250	XW2Z-RI50-25-D1	PLC I/O Units with MIL connectors (1:2)	
	32 output points		(A) 750	(B) 500	XW2Z-RI75-50-D1		
			(A) 500	(B) 250	XW2Z-RO50-25-D1		
			(A) 750	(B) 500	XW2Z-RO75-50-D1		
			16 input points/ 16 output points	(A) 500	(B) 250		XW2Z-RM50-25-D1
	(A) 750			(B) 500	XW2Z-RM75-50-D1		
	32 input points		(A) 500	(B) 250	XW2Z-RI50-25-D2	PLC I/O Units with MIL connectors (1:2)	
			(A) 750	(B) 500	XW2Z-RI75-50-D2		
			16 input points/ 16 output points	(A) 500	(B) 250		XW2Z-RM50-25-D2
				(A) 750	(B) 500		XW2Z-RM75-50-D2
				Straight length (without bends)			

Name		Appearance	Cable length L (mm)		Connecting Cables	Applicable Connectors	
Mitsubishi Electric PLC Connecting Cables XW2Z-RI□C-□-MN, XW2Z-RO□C-□-MN	32 input points	 Straight length (without bends)	(A) 1,000	(B) 750	XW2Z-RI100C-75-MN	Mitsubishi Electric PLCs with 32-point connectors (1:2) For inputs: AX42, A1SX41, A1SX42 For outputs: AY42, A1SY41, A1SY42	
			(A) 1,500	(B) 1,250	XW2Z-RI150C-125-MN		
			(A) 2,000	(B) 1,750	XW2Z-RI200C-175-MN		
			(A) 3,000	(B) 2,750	XW2Z-RI300C-275-MN		
	32 output points		(A) 1,000	(B) 750	XW2Z-RO100C-75-MN		
			(A) 1,500	(B) 1,250	XW2Z-RO150C-125-MN		
			(A) 2,000	(B) 1,750	XW2Z-RO200C-175-MN		
			(A) 3,000	(B) 2,750	XW2Z-RO300C-275-MN		
Schneider Electric PLC Connecting Cables XW2Z-R□C-SCH-□	32 input points	 Straight length (without bends)	500		XW2Z-R050C-SCH-A	Schneider Electric PLCs with 32-point connectors (1:2) For inputs: 140 DDI 353 00 For outputs: 140 DDO 353 00	
			1,000		XW2Z-R100C-SCH-A		
			2,000		XW2Z-R200C-SCH-A		
			3,000		XW2Z-R300C-SCH-A		
			5,000		XW2Z-R500C-SCH-A		
	32 output points		500	XW2Z-R050C-SCH-B			
			1,000	XW2Z-R100C-SCH-B			
			2,000	XW2Z-R200C-SCH-B			
			3,000	XW2Z-R300C-SCH-B			
		5,000	XW2Z-R500C-SCH-B				
	16 input points	 L	500		XW2Z-R050C-SCH-C	Schneider Electric PLCs with 16-point connectors (1:1) For inputs: BMX DDI 1602 For outputs: BMX DDO 1602	
			1,000		XW2Z-R100C-SCH-C		
			2,000		XW2Z-R200C-SCH-C		
			3,000		XW2Z-R300C-SCH-C		
			5,000		XW2Z-R500C-SCH-C		
	16 output points		500	XW2Z-R050C-SCH-D			
			1,000	XW2Z-R100C-SCH-D			
			2,000	XW2Z-R200C-SCH-D			
3,000			XW2Z-R300C-SCH-D				
5,000		XW2Z-R500C-SCH-D					
Siemens PLC Connecting Cables XW2Z-R□C-SIM-□	32 input points	 Straight length (without bends)	500		XW2Z-R050C-SIM-A	Siemens PLCs with 32-point connectors (1:2) For inputs: 6ES7 321-1BL00-0AA0 For outputs: 6ES7 322-1BL00-0AA0	
			1,000		XW2Z-R100C-SIM-A		
			2,000		XW2Z-R200C-SIM-A		
			3,000		XW2Z-R300C-SIM-A		
			5,000		XW2Z-R500C-SIM-A		
	32 output points		500	XW2Z-R050C-SIM-B			
			1,000	XW2Z-R100C-SIM-B			
			2,000	XW2Z-R200C-SIM-B			
			3,000	XW2Z-R300C-SIM-B			
		5,000	XW2Z-R500C-SIM-B				
	16 input points	 L	500		XW2Z-R050C-SIM-C	Siemens PLCs with 16-point connectors (1:1) For inputs: 6ES7 321-1BH02-0AA0	
			1,000		XW2Z-R100C-SIM-C		
			2,000		XW2Z-R200C-SIM-C		
			3,000		XW2Z-R300C-SIM-C		
			5,000		XW2Z-R500C-SIM-C		
	32 input points		 Straight length (without bends)	500		XW2Z-R050C-SIM-D	Siemens PLCs with 32-point connectors (1:2) For inputs: 6ES7 421-1BL-0AA0 For outputs: 6ES7 422-1BL-0AA0
				1,000		XW2Z-R100C-SIM-D	
				2,000		XW2Z-R200C-SIM-D	
				3,000		XW2Z-R300C-SIM-D	
		5,000		XW2Z-R500C-SIM-D			
	32 output points	500		XW2Z-R050C-SIM-E			
		1,000		XW2Z-R100C-SIM-E			
		2,000		XW2Z-R200C-SIM-E			
3,000		XW2Z-R300C-SIM-E					
5,000		XW2Z-R500C-SIM-E					

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