

Mitsubishi Q00/Q00UJ/Q01/QJ71

Supported Series: Mitsubishi Q series PLC with QJ71C24 communication module, Q00, Q00J, Q00UJ, Q01, Q02H, Q06H, Q12H, Q25H, Q12PH, Q25PH CPU port.

Website: <http://www.mitsubishi-automation.com>

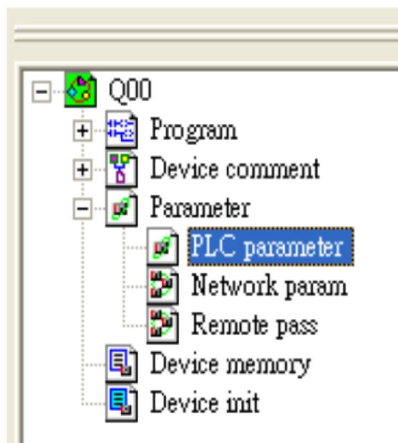
HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Mitsubishi Q00/Q00UJ/Q01/QJ71		
PLC I/F	RS232	RS485 2W/4W, RS232	
Baud rate	9600	9600~115200	
Data bits	8		
Parity	Odd		
Stop bits	1		
PLC sta. no.	0		

Online simulator	Yes	Extend address mode	NO
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PLC Setting:

Q00, Q01 CPU port setting:



1. In GX Developer "PLC data list" click [PLC parameter].
2. In "PLC parameter" go to [Serial] page.
3. Select [Use serial communication].
4. Set [Transmission speed] to 9600~115200.
5. Select [Sum check].
6. Set [Transmission wait time] to 10ms.
7. Permit [RUN write setting].
8. Click [End] to close the dialog.
9. Write the PLC Parameter to PLC.
10. Reset PLC, the parameter will be activated.

Qn(H) Parameter

PLC name | PLC system | PLC file | PLC RAS | Device | Program
 Boot file | SFC | I/O assignment | Serial

☒ Use serial communication

Transmission speed
 19.2Kbps

☒ Sum check

Transmission wait time
 10ms

RUN write setting
☒ Permit

Data format value is fixed as below.
 Start bit :1 Parity bit:Odd
 Data bit:8 Stop bit:1

Acknowledge XY assignment | Multiple CPU settings | Default | Check | End | Cancel

QJ71 setting:

Q parameter setting

PLC name | PLC system | PLC file | PLC RAS | Device | Program | Boot file | SFC | I/O assignment

I/O Assignment(*)

Slot	Type	Model name	Points	StartXY
0	PLC			
1	0(*:0)	Intelli.	32points	
2	1(*:1)			
3	2(*:2)			
4	3(*:3)			
5	4(*:4)			
6	5(*:5)			
7	6(*:6)			

Assigning the I/O address is not necessary as the CPU does it automatically.
 Leaving this setting blank will not cause an error to occur.

Base setting(*)

	Base model name	Power model name	Extension cable	Slots
Main				
Ext Base1				
Ext Base2				
Ext Base3				
Ext Base4				
Ext Base5				
Ext Base6				
Ext Base7				

Base mode
☒ Auto
☐ Detail

8 Slot Default
 12 Slot Default

(*)Settings should be set as same when using multiple CPU.

Import Multiple CPU Parameter | Read PLC data

Acknowledge XY assignment | Multiple CPU settings | Default | Check | End | Cancel

Module selection

Module selection

Module type: Serial Communications/Modem Interface Module

Module name: QJ71C24

QJ71C24N
 QJ71C24N-R2
 QJ71C24N-R4
 QJ71C24
 QJ71C24-R2

OK | Cancel

Switch Setting No set: QJ71C24

Item	CH1	CH2
Operation setting	Independence	Independence
Data Bit	8	7
Parity Bit	Exist	None
Odd/Even Parity	Odd	Odd
Stop Bit	1	1
Sum Check Code	Exist	None
Online Change	Enable	Disable
Change	Enable	Disable
Communication rate setting	9600bps	Automatic setting
Communication protocol setting	MC protocol (Type5)	Connecting GX Developer
Station number setting (0 to 31)	0	

OK | Cancel

Device Address:

Bit/Word	Device type	Format	Range	Memo
B	X	HHHH	0 ~ 1fff	Input Relay
B	Y	HHHH	0 ~ 1fff	Output Relay
B	M	DDDDD	0 ~ 61439	Internal Relay
B	L	DDDDD	0 ~ 32767	Latch Relay
B	F	DDDDD	0 ~ 32767	Annunciator
B	V	DDDDD	0 ~ 32767	Edge Relay
B	B	HHHH	0 ~ efff	Link Relay
B	TC	DDDD	0 ~ 2047	Timer Coil
B	SS	DDDDD	0 ~ 25471	Retentive Timer Contact
B	SC	DDDDD	0 ~ 25471	Retentive Timer Coil
B	CS	DDDDD	0 ~ 25471	Counter Contact
B	CC	DDDDD	0 ~ 25471	Counter Coil
B	SB	HHH	0 ~ 7ff	Special Link Relay
B	S	DDDD	0 ~ 8191	Step Relay
B	DX	HHHH	0 ~ 1fff	Direct Input
B	DY	HHHH	0 ~ 1fff	Direct Output
B	TS	DDDD	0 ~ 2047	Timer Contact
B	SM	DDDD	0 ~ 2047	
B	D_Bit	DDDDDDDDh	0 ~ 4212735f	
B	W_Bit	HHHHh	0 ~ 2ffff	
B	ZR_Bit	HHHHHh	0 ~ fe7fff	
B	ZR_Dec_Bit	DDDDDDDDh	0 ~ 1042431f	
W	W	HHHH	0 ~ 2fff	Link Register
W	TN	DDDD	0 ~ 2047	Timer Current Value
W	SN	DDDD	0 ~ 2047	Retentive Timer Current Value
W	CN	DDDD	0 ~ 1023	Counter Current Value
W	R	FFDDDDD	0 ~ 3132767	File Register (FF:File No. 0~31) (DDDDD:0~32767)
W	SW	HHH	0 ~ 7ff	Special Link Register
W	Z	DD	0 ~ 19	Index Register
W	ZR	HHHHH	0 ~ fe7a5	File Register
W	ZR_decimal_addr	DDDDDDD	0 ~ 1042341	
W	D	DDDDDDD	0 ~ 4212735	Data Register
W	SD	DDDD	0 ~ 2047	
W	Serial_No	D	0 ~ 7	
W	Product_No	D	0 ~ 7	

Wiring Diagram:

QJ71C24 CH.2 RS422 Terminal (Diagram 1 ~ Diagram 4)

Diagram 1

cMT Series	<i>cMT3151</i>
eMT Series	<i>eMT3070 / eMT3105 / eMT3120 / eMT3150</i>
MT-iE	<i>MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE</i>
MT-XE	<i>MT8121XE / MT8150XE</i>

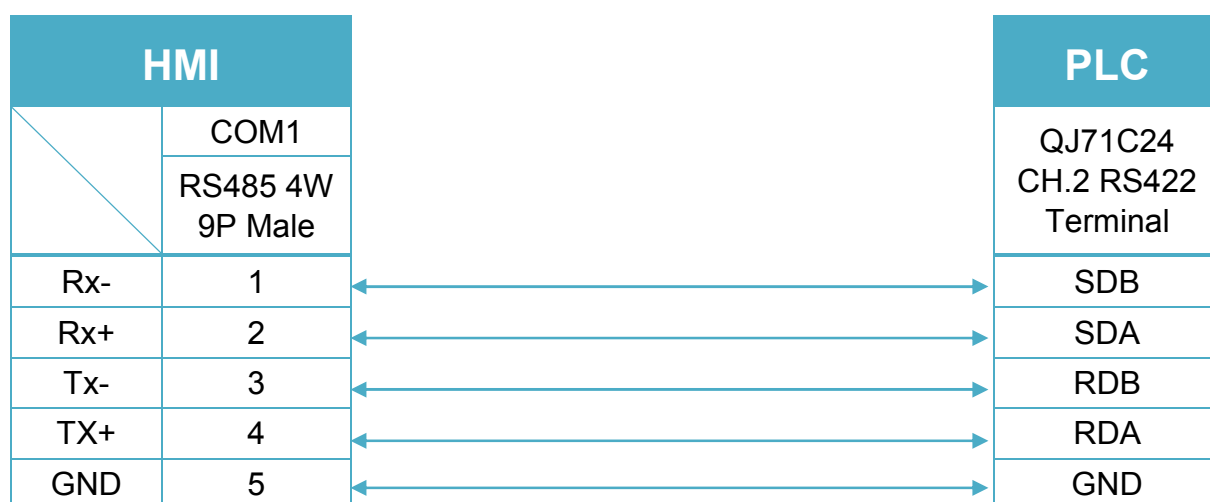


Diagram 2

cMT Series	<i>cMT-SVR</i>
mTV	<i>mTV</i>

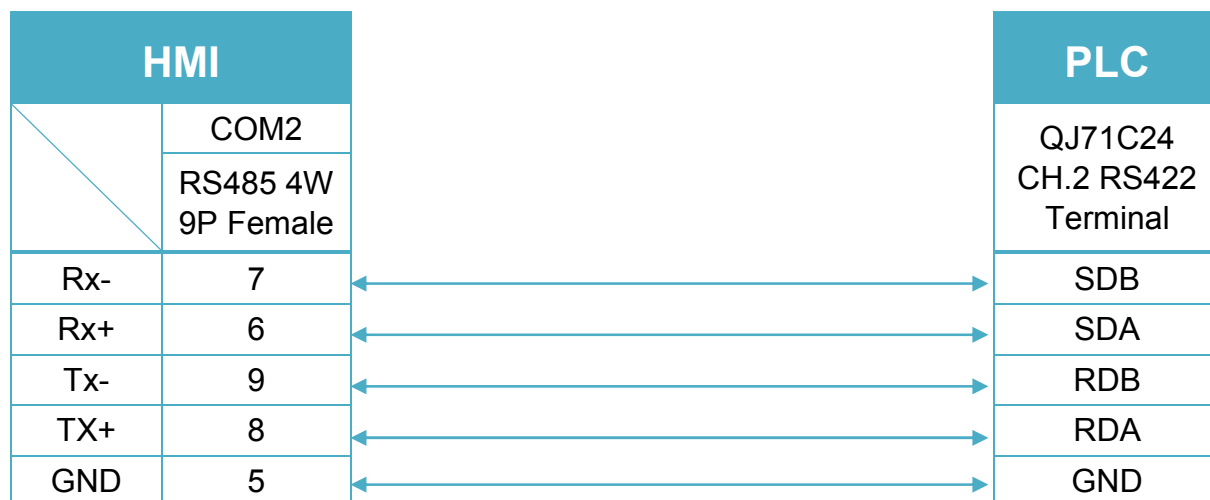
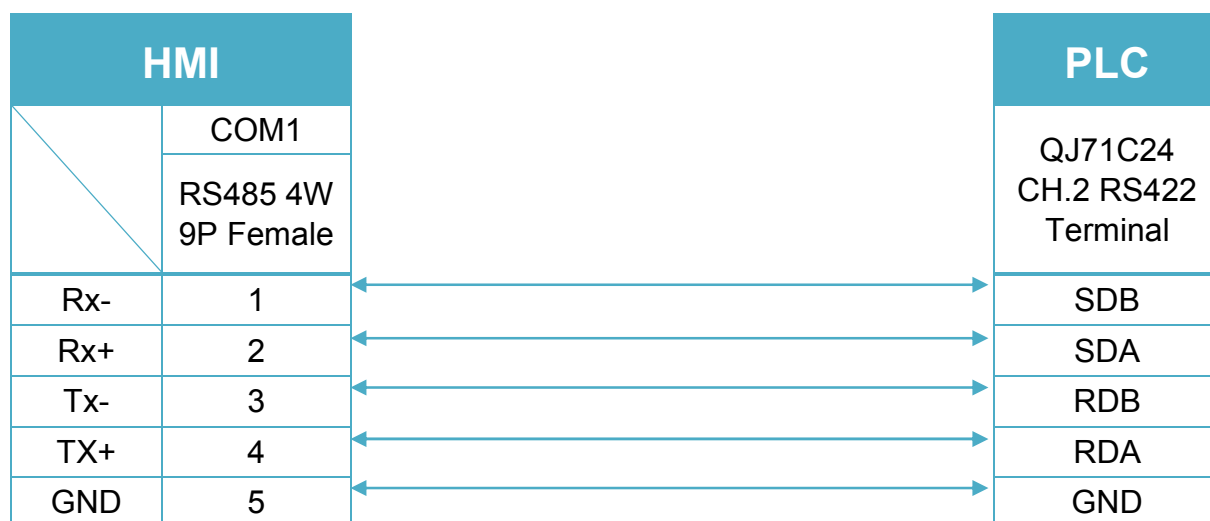


Diagram 3

MT-iE	<i>MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i>
MT-XE	<i>MT8090XE / MT8092XE</i>
MT-iP	<i>MT6071iP / MT8071iP / MT6103iP</i>


Diagram 4

MT-iE	<i>MT8050iE</i>
MT-iP	<i>MT6051iP</i>



QJ71C24 CH.2 RS232 (Diagram 5 ~ Diagram 7)

Diagram 5

cMT Series	<i>cMT3151</i>
eMT Series	<i>eMT3070/ eMT3105 / eMT3120 / eMT3150</i>
MT-iE	<i>MT8073iE / MT8102iE</i>
MT-XE	<i>MT8092XE</i>
MT-iP	<i>MT6103iP</i>

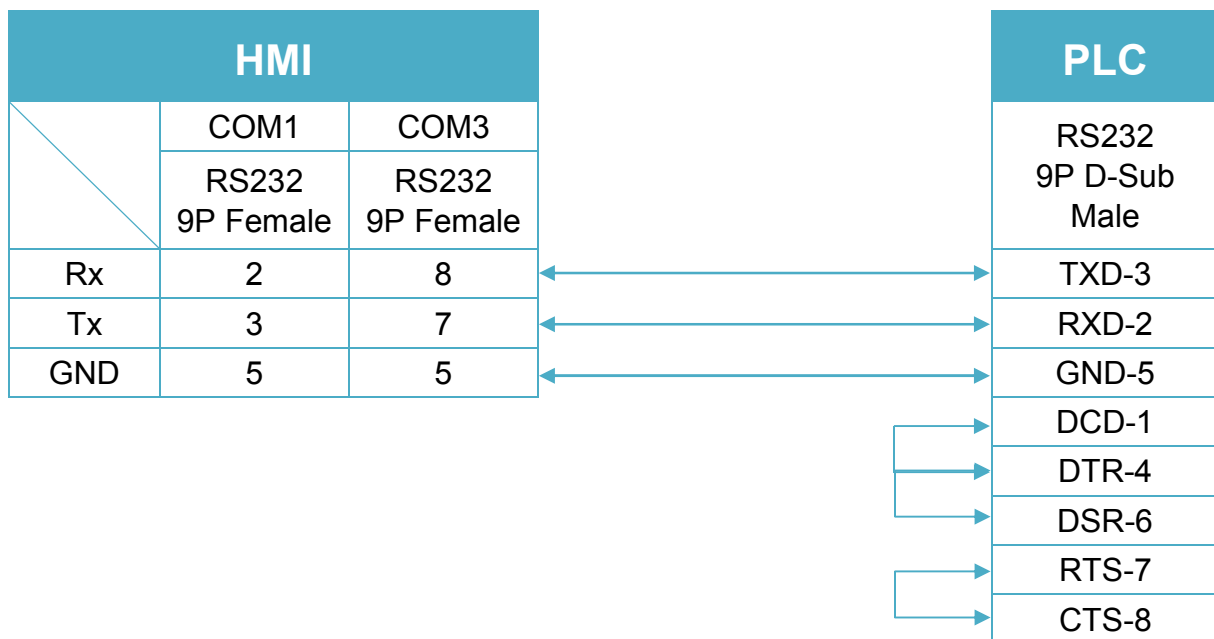
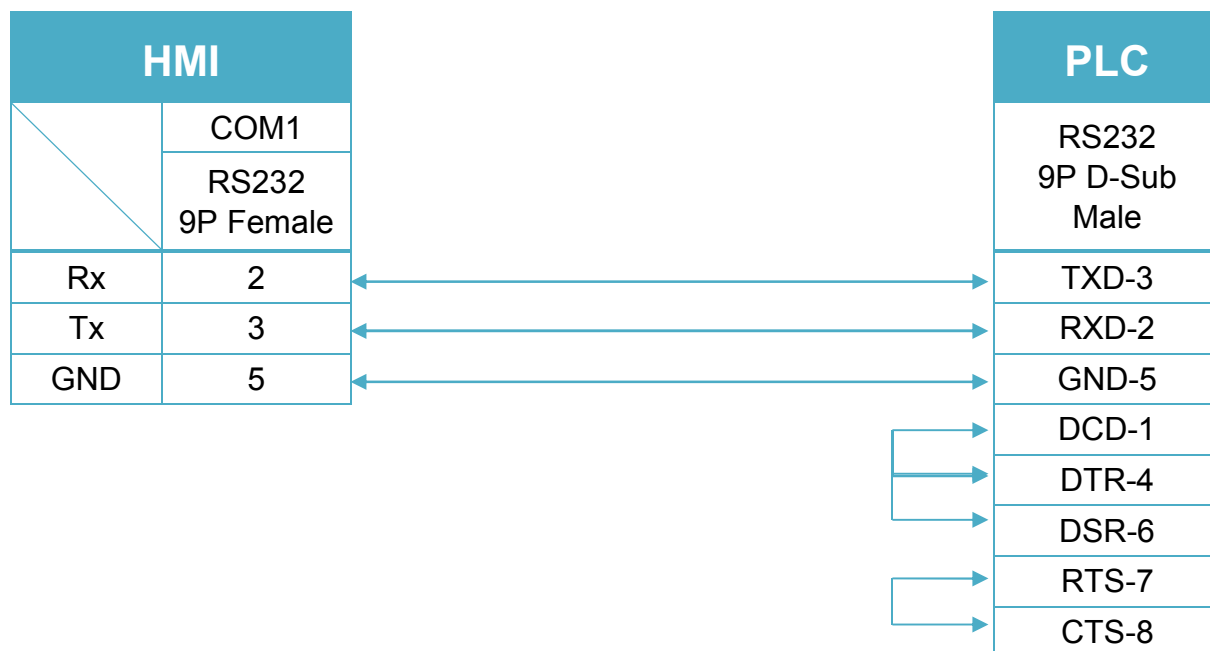
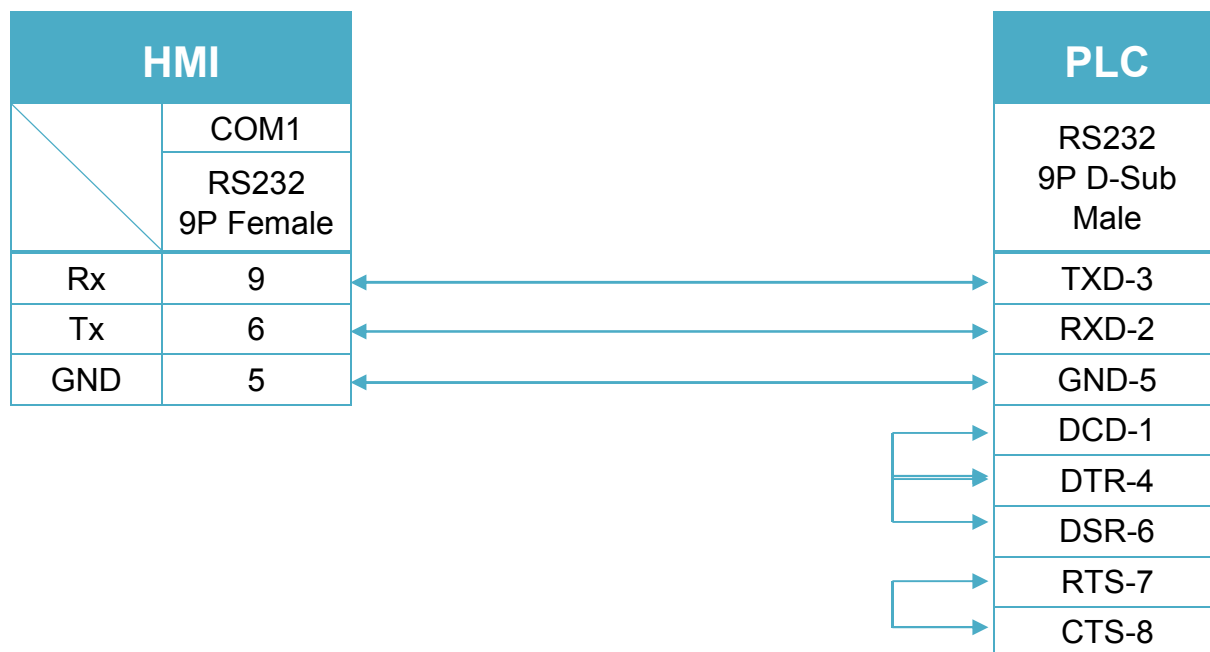


Diagram 6

cMT Series	<i>cMT-SVR</i>
mTV	<i>mTV</i>
MT-iE	<i>MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE / MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i>
MT-XE	<i>MT8121XE / MT8150XE / MT8090XE /</i>


Diagram 7
MT-iE **MT8050iE**
MT-iP **MT6051iP / MT6071iP / MT8071iP**


6P Mini-DIN: Q00, Q01 CPU port RS232 (Diagram 8 ~ Diagram 10)

The following is the view from the soldering point of a connector.

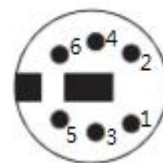


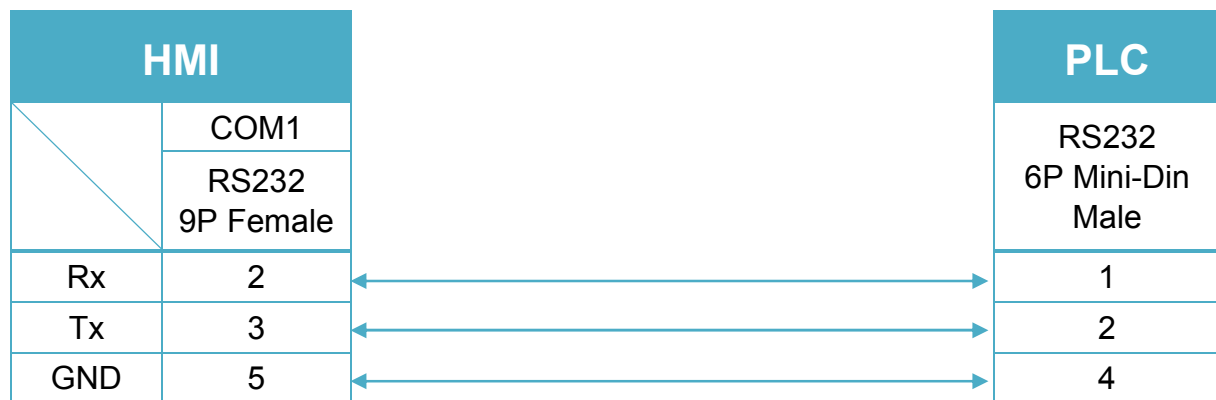
Diagram 8

cMT Series	cMT3151
eMT Series	eMT3070/ eMT3105 / eMT3120 / eMT3150
MT-iE	MT8073iE / MT8102iE
MT-XE	MT8092XE
MT-iP	MT6103iP

HMI				PLC	
	COM1	COM3		RS232 6P Mini-Din Male	
	RS232 9P Female	RS232 9P Female			
Rx	2	8	←→	1	
Tx	3	7	←→	2	
GND	5	5	←→	4	

Diagram 9

cMT Series	cMT-SVR
mTV	mTV
MT-iE	MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE / MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE
MT-XE	MT8121XE / MT8150XE / MT8090XE /


Diagram 10

MT-iE	MT8050iE
MT-iP	MT6051iP / MT6071iP / MT8071iP



6P Mini-DIN: Q00UJ CPU port RS232 (Diagram 11 ~ Diagram 13)

The following is the view from the soldering point of a connector.

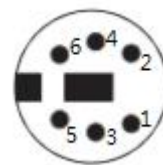


Diagram 11

cMT Series	cMT3151
eMT Series	eMT3070 / eMT3105 / eMT3120 / eMT3150
MT-iE	MT8073iE / MT8102iE
MT-XE	MT8092XE
MT-iP	MT6103iP

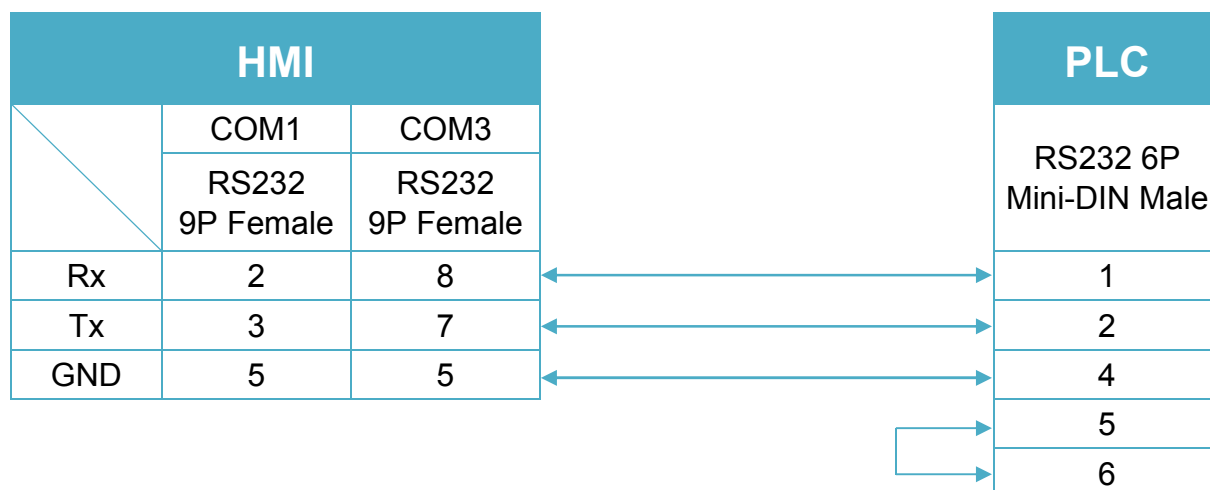
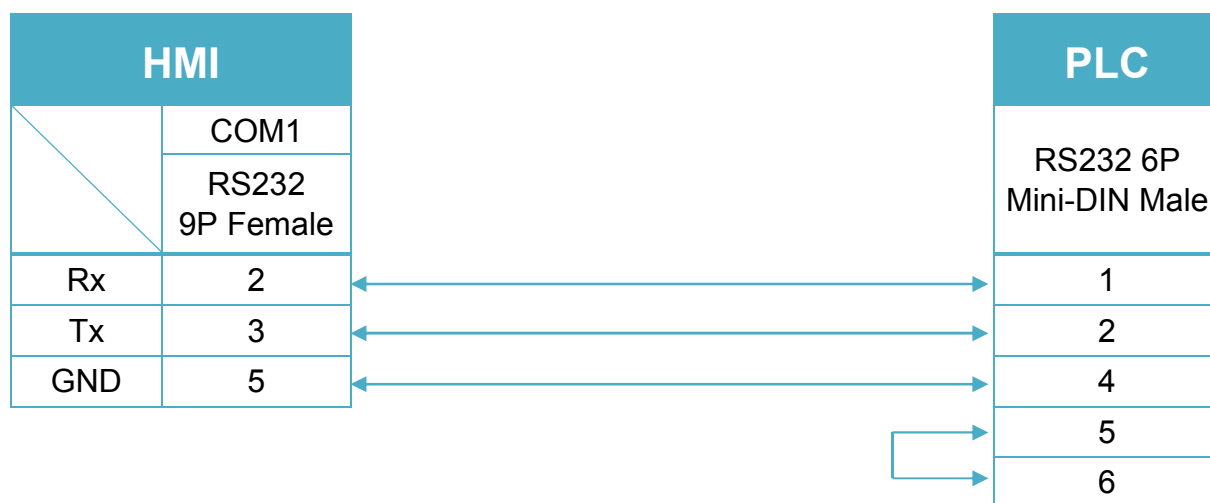


Diagram 12

cMT Series	cMT-SVR
mTV	mTV
MT-iE	MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE / MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE
MT-XE	MT8121XE / MT8150XE / MT8090XE /


Diagram 13

MT-iE	MT8050iE
MT-iP	MT6051iP / MT6071iP / MT8071iP

