

KEYENCE KV-L20V/700/1000/3000/5000/Nano Series (KV Studio Mode)

Supported series: KV-L20V, 700, 1000, 3000, 5000 series, KV Nano series

Website: <http://www.keyence.com/>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	KEYENCE KV-L20V/700/1000/3000/5000/Nano Series (KV Studio Mode)		
PLC I/F	RS232	RS232,RS485 2W,RS485 4W	
Baud rate	115200	9600 ~ 115200	
Data bits	8		
Parity	Even		
Stop bits	1		
PLC sta. no.	0		

Online simulator	YES	Extend address mode	NO
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PLC Setting:

Communication mode	KV STUDIO mode
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Device Address:

Bit/Word	Device type	Format	Range	Memo
B	MR	DDDdd	0 ~ 99915	
B	LR	DDDdd	0 ~ 99915	
B	CR	DDDdd	0 ~ 99915	
B	R	DDDdd	0 ~ 99915	
B	B	HHHh	0 ~ 3FFF	
B	T	DDDD	0 ~ 9999	
B	C	DDDD	0 ~ 9999	
B	DM_Bit	DDDDDdd	0 ~ 6553515	
B	TM_Bit	DDDDdd	0 ~ 999915	
B	CM_Bit	DDDDDdd	0 ~ 6553515	
B	CTC_Bit	Ddd	0 ~ 315	

Bit/Word	Device type	Format	Range	Memo
B	W_Bit	HHHHh	0 ~ 3FFFF	
B	VM_Bit	DDDDdd	0 ~ 6553515	
B	VB_Bit	HHHh	0 ~ 3FFF	
W	DM	DDDDD	0 ~ 65535	
W	TM	DDDD	0 ~ 9999	
W	CM	DDDDD	0 ~ 65535	
W	EM	DDDDD	0 ~ 65535	
W	FM	DDDDD	0 ~ 65535	
W	MR_Word	DDD	0 ~ 999	
W	LR_Word	DDD	0 ~ 999	
W	CR_Word	DDD	0 ~ 999	
W	W	HHHH	0 ~ 3FFF	
W	VM	DDDDD	0 ~ 65535	
W	VB	HHH	0 ~ 3FFF	
W	R_Word	DDD	0 ~ 999	
W	B_Word	HHH	0 ~ 3FF	
W	TC	DDDD	0 ~ 9999	
W	TS	DDDD	0 ~ 9999	
W	CC	DDDD	0 ~ 9999	
W	CS	DDDD	0 ~ 9999	
DW	CTH	D	0 ~ 1	
DW	CTC	D	0 ~ 3	
DW	Z_DWORD	DD	1 ~ 12	

Wiring Diagram:

OP-26486 9P RS232 (Diagram 1 ~ Diagram 3)

Diagram 1

cMT Series	<i>cMT3071 / cMT3072 / cMT3090 / cMT3103 / 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 / MT8102iP</i>

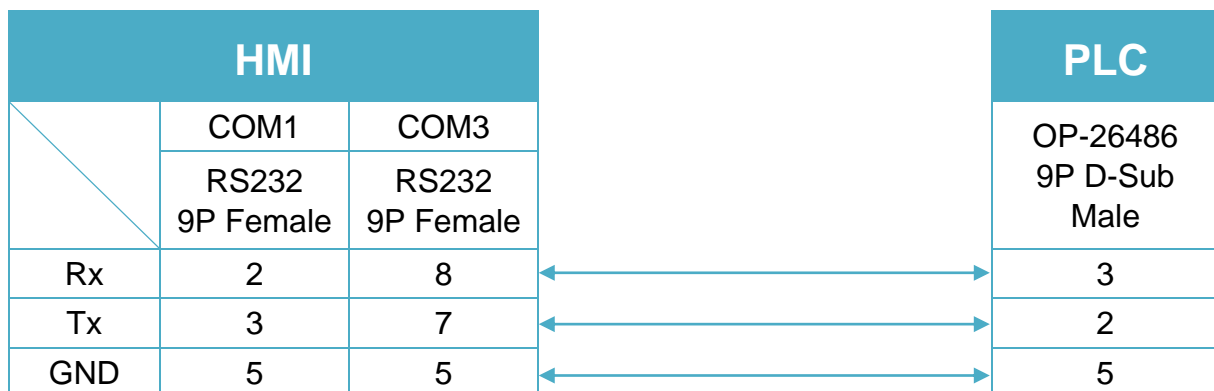


Diagram 2

cMT Series	<i>cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD</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>

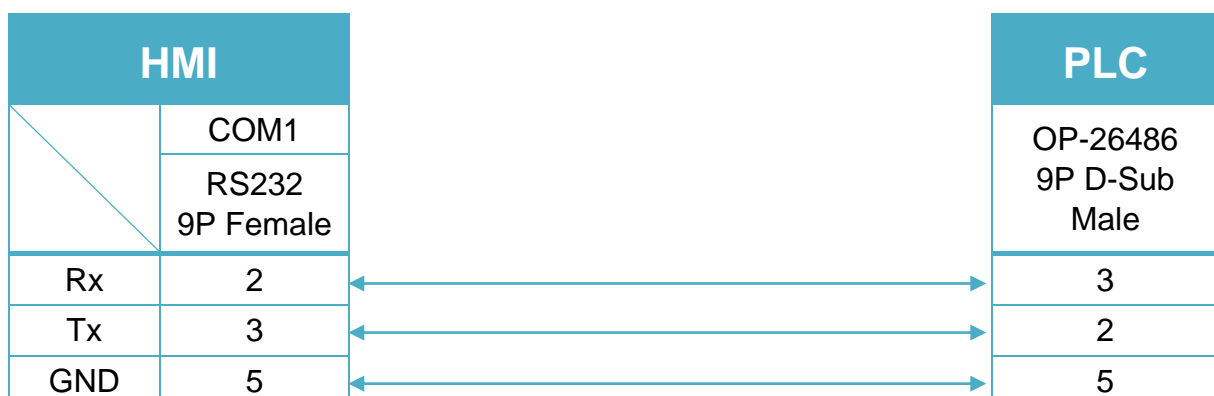
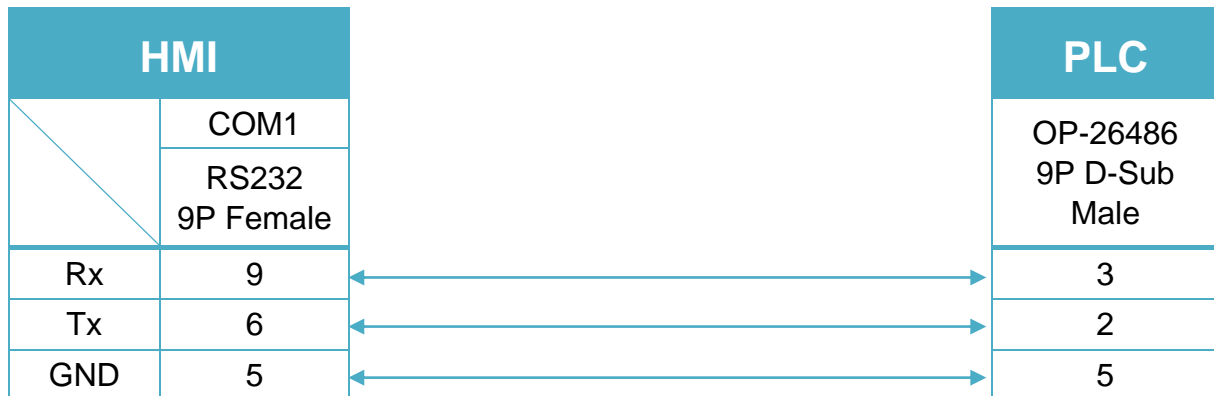


Diagram 3

MT-iE *MT8050iE / MT8053iE*

MT-iP *MT6051iP / MT8051iP / MT6071iP / MT8071iP*



KV-L20V Port2 RS232 terminal (Diagram 4 ~ Diagram 6)

Diagram 4

cMT Series *cMT3071 / cMT3072 / cMT3090 / cMT3103 / cMT3151*

eMT Series *eMT3070 / eMT3105 / eMT3120 / eMT3150*

MT-iE *MT8073iE / MT8102iE*

MT-XE *MT8092XE*

MT-iP *MT6103iP / MT8102iP*

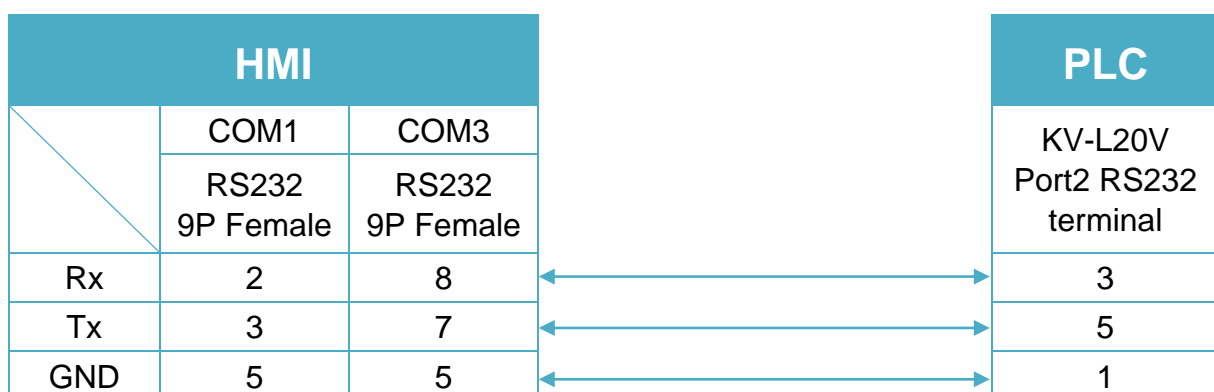


Diagram 5

cMT Series	<i>cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD</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 6

MT-iE	<i>MT8050iE / MT8053iE</i>
MT-iP	<i>MT6051iP / MT8051iP / MT6071iP / MT8071iP</i>



KV-L20V Port2 RS485 2W (Diagram 7 ~ Diagram 12)

Diagram 7

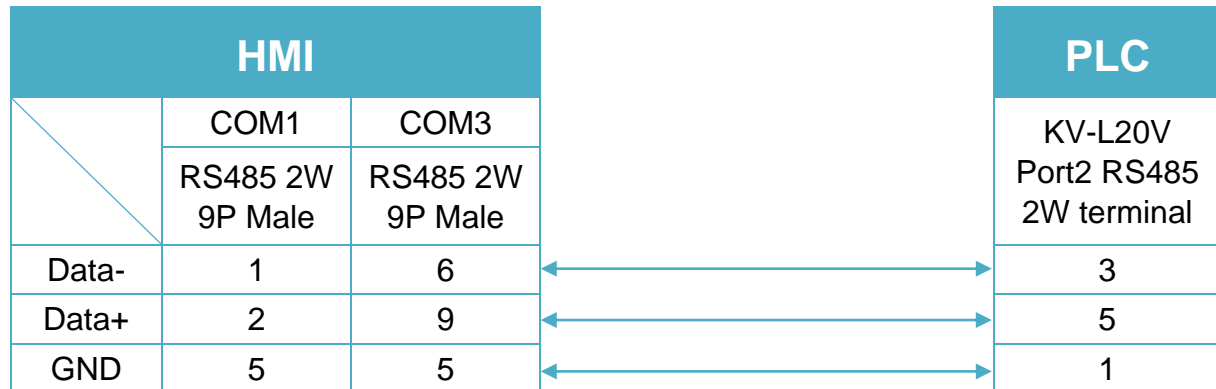
cMT Series
cMT3151
eMT Series
eMT3070 / eMT3105 / eMT3120 / eMT3150


Diagram 8

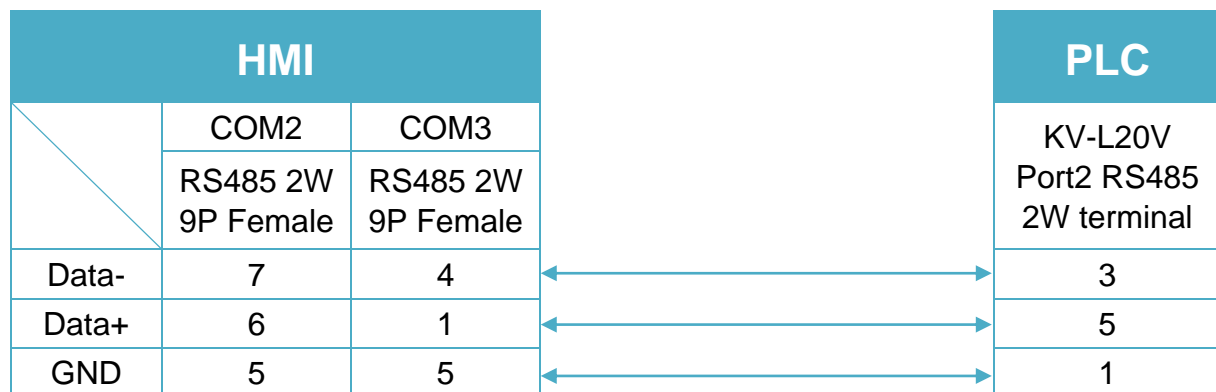
cMT Series
cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD
mTV
mTV


Diagram 9

MT-iE *MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE*

MT-XE *MT8121XE / MT8150XE*

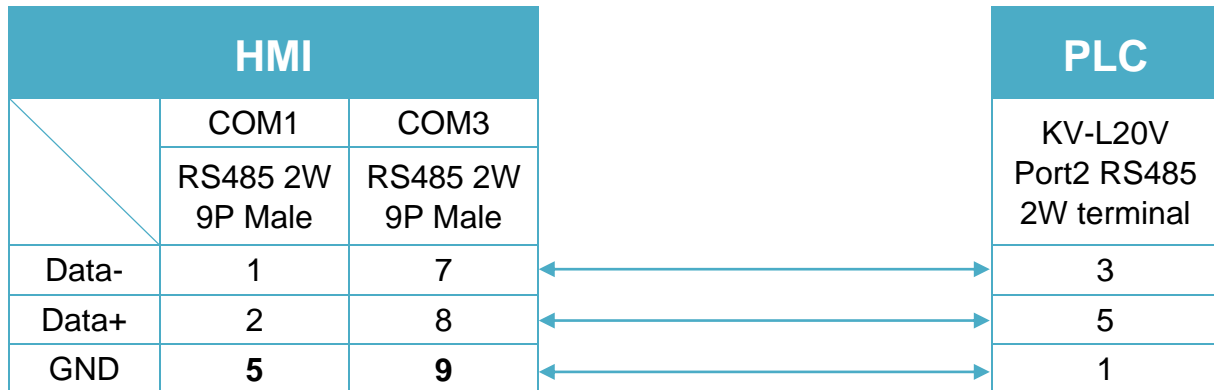


Diagram 10

cMT Series *cMT3071 / cMT3072 / cMT3090 / cMT3103*

MT-iE *MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE /
MT8101iE / MT8102iE / MT8103iE*

MT-XE *MT8090XE / MT8092XE*

MT-iP *MT6103iP / MT8102iP*

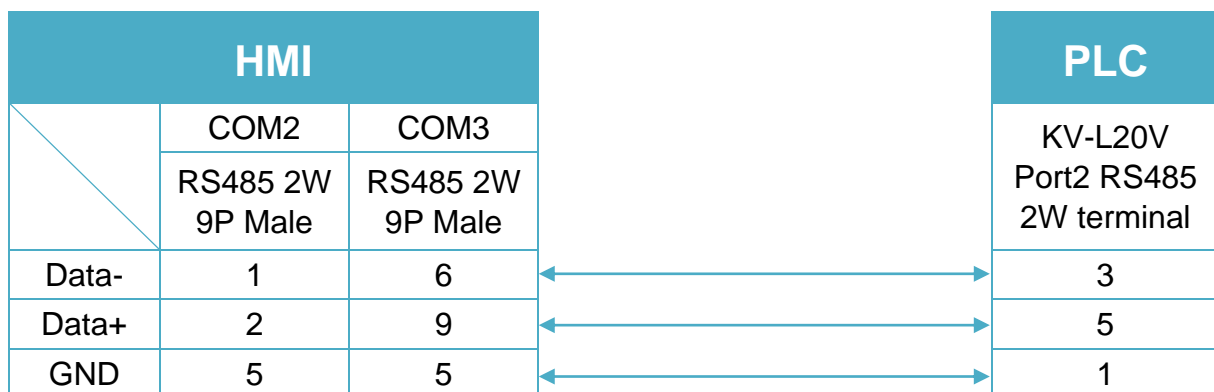


Diagram 11

MT-iE *MT8050iE / MT8053iE*

MT-iP *MT6051iP / MT8051iP*

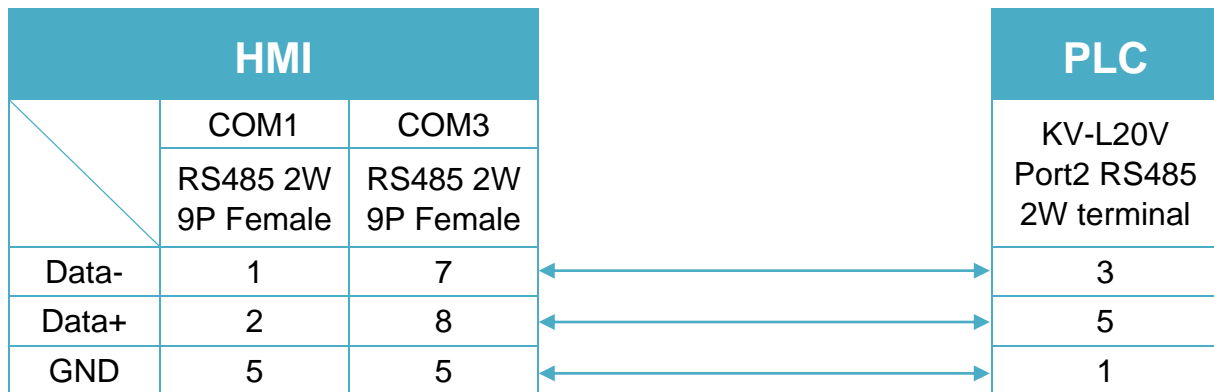


Diagram 12

MT-iP *MT6071iP / MT8071iP*



KV-L20V Port2 RS485 4W (Diagram 13 ~ Diagram 16)

Diagram 13

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>

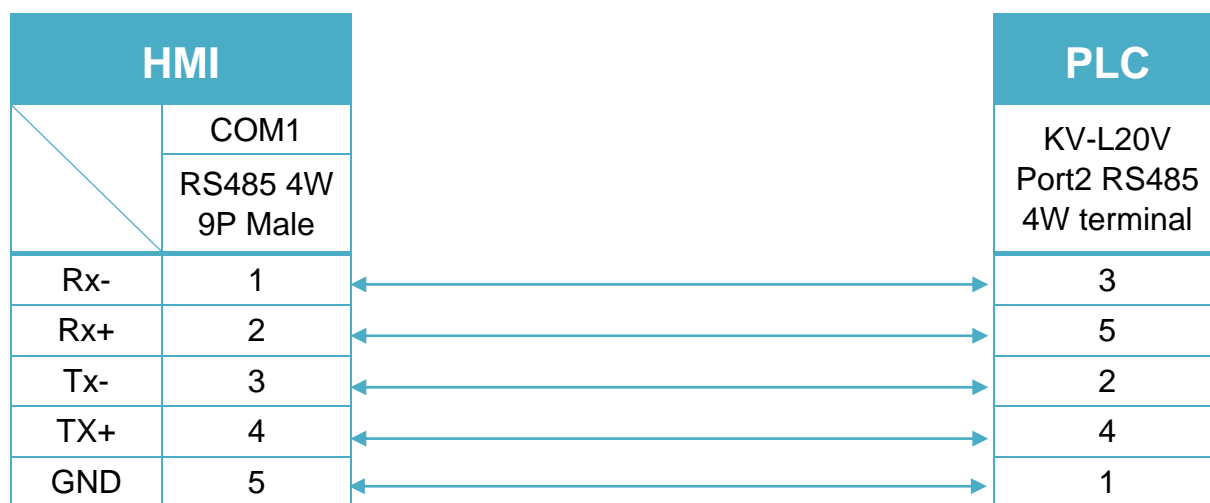


Diagram 14

cMT Series	<i>cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD</i>
mTV	<i>mTV</i>

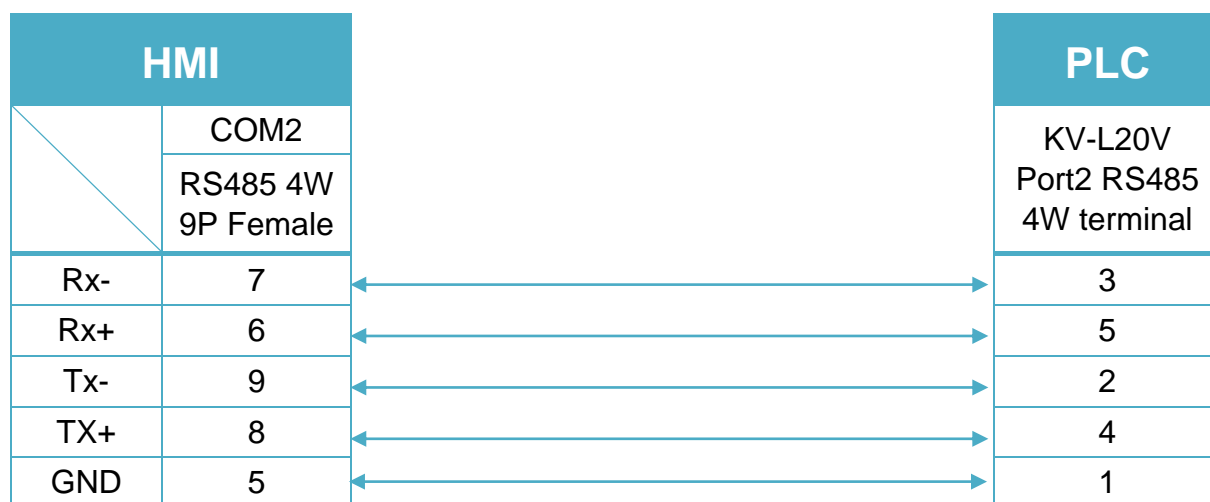


Diagram 15

cMT Series	<i>cMT3071 / cMT3072 / cMT3090 / cMT3103</i>
MT-iE	<i>MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i>
MT-XE	<i>MT8090XE / MT8092XE</i>
MT-iP	<i>MT6071iP / MT8071iP / MT6103iP / MT8102iP</i>

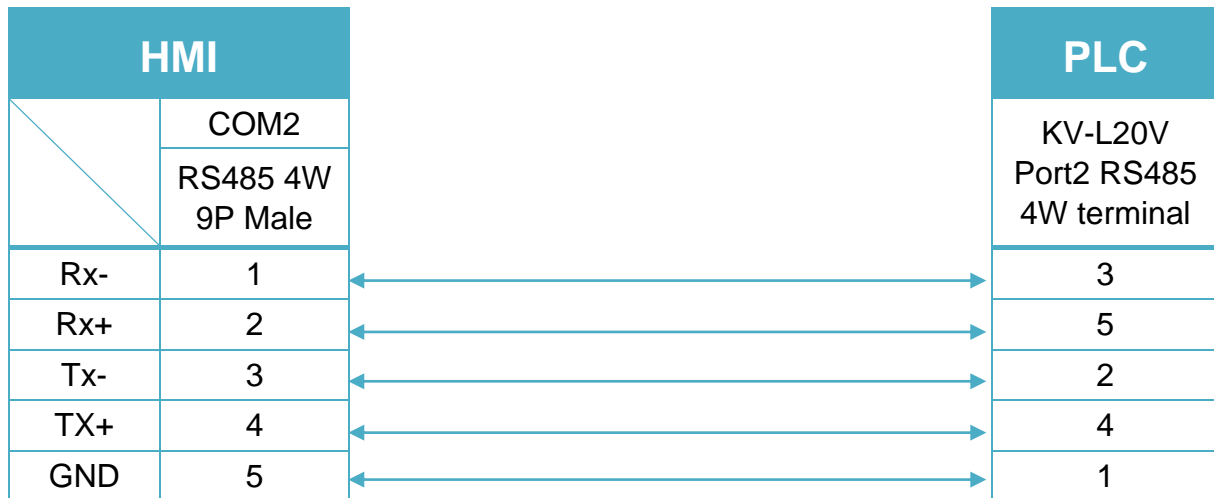


Diagram 16

MT-iE	<i>MT8050iE / MT8053iE</i>
MT-iP	<i>MT6051iP / MT8051iP</i>

