




PTU-D100E 100BaseT PL17 Wiring Option Addendum

Version 2.00

DOCUMENT CONTROL

Date	Author	Rev. #	Changes
05/2012	A. Hernandez	1.01	Initial release
11/2012	A. Hernandez	2.00	Updated diagram and other edits

 *Note: This addendum covers the PTU-D100E with PL17 wiring and 100BaseT slip ring option only. If you have any other series of PTU, please refer to the appropriate documentation for that series.*

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CAUTION: DO NOT EXCEED MAXIMUM RATED PASS-THROUGH AMPERAGES. FUSE PAYLOADS AT RATED TRIP VALUES. THE PTU WARRANTY DOES NOT COVER DAMAGE CAUSED BY OVERCURRENT SITUATIONS.

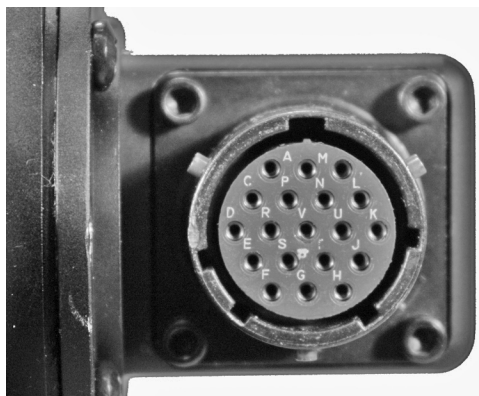
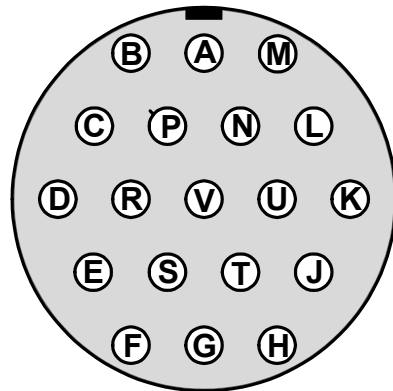


CAUTION: ALWAYS TERMINATE THE SHIELD LINE TO AN APPROPRIATE SYSTEM SHIELD OR GROUND CONNECTION.

In general, TX lines carry data from the PTU, and RX lines carry data to the PTU.

19-Pin Payload Connector

This table displays the PTU 19-pin base connector pin assignments for the PL17 wiring option. MIL-C-26402.

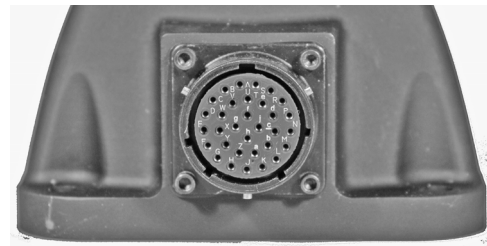
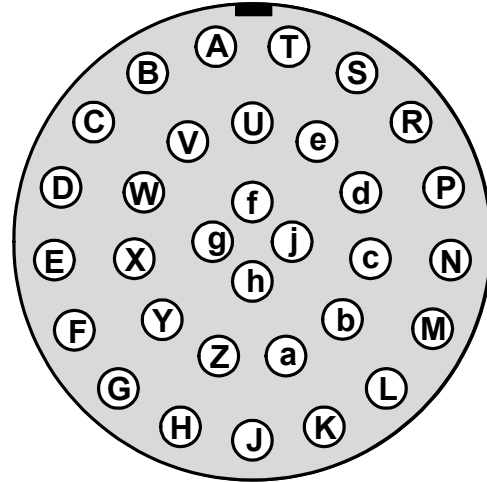


PIN	PL17
A	PT7 - Ethernet 10/100BT (twisted pair with PT8)
B	PT8 - Ethernet 10/100BT (twisted pair with PT7)
C	PT9 - Ethernet 10/100BT (twisted pair with PT10)
D	PT10 - Ethernet 10/100BT (twisted pair with PT9)
E	RESERVED
F	SHIELD
G	VIDEO1_GROUND
H	VIDEO1_SIGNAL
J	PT4
K	PT5
L	PT6
M	RESERVED
N	PT3
P	PT2
R	PAYLOAD -
S	PAYLOAD +
T	VIDEO2_SIGNAL
U	VIDEO2_GROUND
V	PT1

32-Pin Base Connector

This table displays the PTU 32-pin base connector pin assignments for the PL17 wiring option. MIL-C-26482.

PIN	PL17
A	RESERVED
B	HOST RS232_RX
C	HOST RS232_TX
D	PTU RETURN (-)
E	PTU POWER (+)
F	SHIELD
G	HOST RS485_RX+
H	HOST RS485_RX-
J	ETHERNET_TX-
K	ETHERNET_RX+
L	ETHERNET_RX-
M	PT1
N	VIDEO1_GROUND
P	VIDEO1_SIGNAL
R	VIDEO2_GROUND
S	VIDEO2_SIGNAL
T	PT4
U	RESERVED
V	HOST RS232_GND
W	PAYLOAD -
X	PAYLOAD +
Y	HOST RS485_TX+
Z	HOST RS485_TX-
a	ETHERNET_TX+
b	PT2
c	PT3
d	PT5
e	PT6
f	PT7 - Ethernet 10/100BT (twisted pair with PT8)
g	PT8 - Ethernet 10/100BT (twisted pair with PT7)
h	PT9 - Ethernet 10/100BT (twisted pair with PT10)
j	PT10 - Ethernet 10/100BT (twisted pair with PT9)



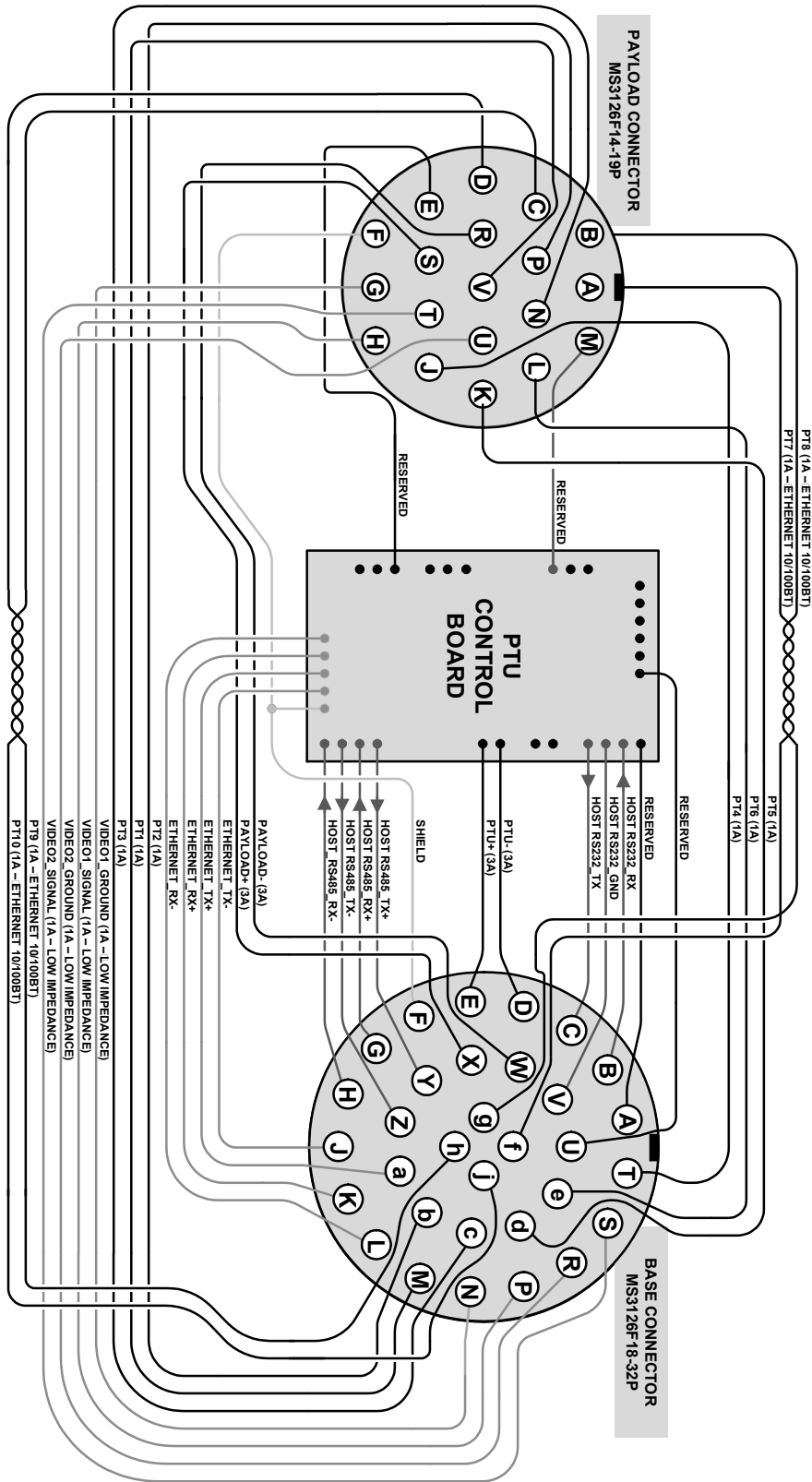
You may use the following wiring combinations:

- PT7 and PT8 as Tx+ and Tx-, with PT9 and PT10 as Rx+ and RX-
- PT9 and PT10 as Tx+ and Tx-, with PT7 and PT8 as Rx+ and Rx-

You cannot use the following wiring combinations:

- PT7 and PT8 mixed as Tx and Rx (where one is Tx+ or Tx- and the other is Rx+ or Rx-)
- PT9 and PT10 mixed as Tx and Rx (where one is Tx+ or Tx- and the other is Rx+ or Rx-)

1.3 PL17 Wiring Diagram



PL17 For the PTU-D100E with 100BaseT slip ring option