

3.4 ROV Power and Communication Interface

The WiSSL system's primary connection to the ROV is through a Teledyne Impulse 12-pin MHDL connector (SubConn D-P-P4TP24#/4C18# cable). This cable provides power, PPS and 10/100 Ethernet communications to the Electronics. Table 1 shows the pin-out for this connector and cable (TP = twisted pair).

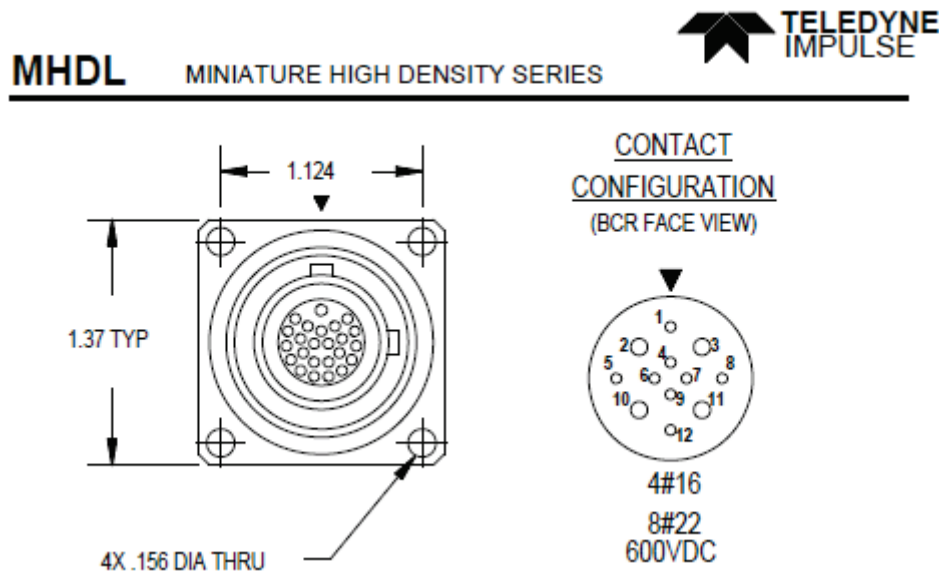


Figure 7 Teledyne 12-pin MHDL Connector

Table 1 Teledyne 12-pin connector and cable pin-out

<u>MHDL-CCP-M-4#16/8#22-SS</u>	<u>D-P-P4TP24#/4C18#</u>	<u>MHDL-CCP-F-4#16/8#22-SS</u>	<u>Signal</u>
1: 22 AWG	TP1a: 24 AWG	1: 22 AWG	PPS Signal
2: 16 AWG	Gnd: 18 AWG	2: 16 AWG	Power Gnd
3: 16 AWG	Gnd: 18 AWG	3: 16 AWG	Power Gnd
4: 22 AWG	TP1b: 24 AWG	4: 22 AWG	PPS Signal Gnd
5: 22 AWG	TP2a: 24 AWG	5: 22 AWG	Ethernet TX-
6: 22 AWG	TP2b: 24 AWG	6: 22 AWG	Ethernet TX+
7: 22 AWG	TP3a: 24 AWG	7: 22 AWG	Ethernet RX-
8: 22 AWG	TP3b: 24 AWG	8: 22 AWG	Ethernet RX+
9: 22 AWG	TP4a: 24 AWG	9: 22 AWG	Spare
10: 16 AWG	+48V: 18 AWG	10: 16 AWG	+48V
11: 16 AWG	+48V: 18 AWG	11: 16 AWG	+48V
12: 22 AWG	Shield	12: 22 AWG	Connected to Housing in sensor
	TP4b: 24 AWG		N/C