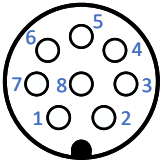


External 8P connector	External cable colours	RS232 full duplex (ROV side)	RS485 half duplex	RS485 full duplex (ROV side)	Ethernet	2x USB	Analogue	
Boxfish 8P penetrator insert A38  Viewed from soldered side	P1 – orange P2 – orange/white P3 – green P4 – green/white P5 – blue P6 – blue/white P7 – brown P8 – brown/white	P1 – PWR P2 – GND P3 – Rx P4 – Tx	P1 – PWR P2 – GND P4 – DATA + P6 – DATA -	P1 – PWR P2 – GND P3 – Rx+ P4 – Tx+ P5 – Rx- P6 – Tx-	P1 – PWR P2 – GND P3 – Tx- P4 – Tx+ P5 – Rx- P6 – Rx+	P1 – PWR P2 – GND P3 – USB1 D+ P4 – USB1 D- P5 – USB2 D+ P6 – USB2 D- P7 – Sea GND P8 - trigger	P1 – PWR P2 – GND P3 – AN GND P4 – AN IN Max 3.3V	
Internal 8P connector (Chassis)  Internal Penetrator DF13 8PF E97	P1 – grey P2 – black P3 – — — — P4 – Depend P5 – on signal P6 – — — — P7 – grey P8 – GND - black	P1 – PWR P2 – GND P3 – Rx P4 – Tx P7 – PWR P8 - GND	P1 – PWR P2 – GND P4 – DATA + P6 – DATA - P7 – PWR P8 - GND	P1 – PWR P2 – GND P3 – Rx+ P4 – Tx+ P5 – Rx- P6 – Tx- P7 – PWR P8 - GND	P1 – PWR P2 – GND P3 – Tx- P4 – Tx+ P5 – Rx- P6 – Rx+ P7 – PWR P8 - GND	P1 – PWR P2 – GND P3 – USB1 D+ P4 – USB1 D- P5 – USB2 D+ P6 – USB2 D- P7 – Sea GND P8 - trigger	P1 – PWR P2 – GND P3 – AN GND P4 – AN IN Max 3.3V	

Notes:

- Unless stated, connectors are shown either from the solder/crimp side or side on.
- Wire lengths are stated AS CUT, before stripping and crimping;
- Wire length for wires with pre-made connectors are shown from outer point of the connector. Splices should be made before final trimming and crimping.
- Spliced wires are cut to final length after joins are made as above.
- Ask for help with adding new wire types and connectors.

V5			
V4			
V3	220915	sp	Added Analogue
V2	220822	SP	Deleted excess information and updated pinouts for serial
V1	220609	SP	Initial release
Rev:	Date:	Initial:	Changes:
			Sheet: 1/1



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[22061444] Pinout standards for connectors

[Part number] Harness title

