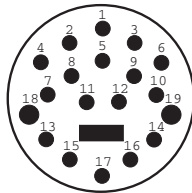


Message number	Message description	Transmit	Receive	Bridge
130310	Environmental parameters	•	•	•
130311	Environmental parameters message		•	
130576	Small craft status		•	
130577	Direction data	•	•	•
130578	Vessel speed components		•	

Appendix D Connectors and pinouts

Power, data and video connector



Item	Remarks
Identification	PWR/NMEA/ST/Video
Connector type	19 pin twist-lock

Item	Remarks
Current source to network	No current sourced for external devices.
Current sink from network	<ul style="list-style-type: none"> • PSU: Main Power input. • NMEA: No power required for interface. • ST1: <50mA (Interface drive only). • Video: No power required for interface.

Power, data and video cable cores and colors

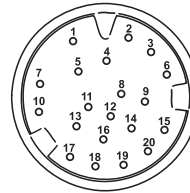
Signal	Pin	Cable	AWG	Grouping	Color
BATT+	18	32/0.2	18		Red
BATT-	19	32/0.2	18		Black
SCREEN	17	not used			

Signal	Pin	Cable	AWG	Grouping	Color
NMEA1 TX+	6	7/0.15	26	Twisted pair	Yellow
NMEA1 TX-	9	7/0.15	26		Brown
NMEA1 RX+	4	7/0.15	26	Twisted pair	White
NMEA1 RX-	8	7/0.15	26		Green
NMEA2 TX+	1	7/0.15	26	Twisted pair	Orange / Yellow
NMEA2 TX-	3	7/0.15	26		Orange / Brown
NMEA2 RX+	7	7/0.15	26	Twisted pair	Orange / White
NMEA2 RX-	11	7/0.15	26		Orange / Green
NMEA3 RX+	5	7/0.15	26	Twisted pair	Blue / White
NMEA3 RX-	2	7/0.15	26		Blue / Green
ST1 BATT+	10	7/0.15	26		White / Red
ST1 DATA	12	7/0.15	26		White / Yellow
HONK	16	7/0.15	26		Grey

Signal	Pin	Cable	AWG	Grouping	Color
ST1 BATT-	14	7/0.15	26		White / Black
VIDEO	15	RG179 75R coax (or equivalent)			
VIDEO RTN	13	Screen			

Video and alarm-audio connector

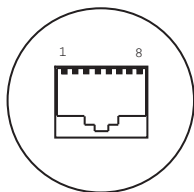
Details for the connector providing video and alarm audio connectivity.



Pin	Signal
1	VIDEO IN A
2	VIDEO IN B
3	VIDEO IN C
4	VIDEO IN B RETURN
5	VIDEO IN A RETURN

Pin	Signal
6	VIDEO IN C RETURN
7	AUDIO OUT +
8	VIDEO OUT H-SYNC
9	VIDEO OUT V-SYNC
10	AUDIO OUT -
11	VIDEO OUT RED
12	VIDEO OUT H-SYNC GROUND
13	VIDEO OUT RED GROUND
14	VIDEO OUT V-SYNC GROUND
15	SHIELD
16	VIDEO OUT GREEN
17	SHIELD
18	VIDEO OUT GREEN GROUND
19	VIDEO OUT BLUE
20	VIDEO OUT BLUE GROUND

SeaTalk^{hs} connector



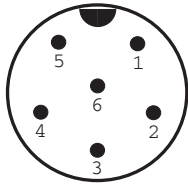
Connectors and pinouts

Item	Remarks
Identification	STHS
Connector type	RJ45 (with suitable waterproofing)
Current source to network	No current sourced for external devices
Current sink from network	No power required for interface

Pin	Signal
1	Tx+
2	Tx-
3	Rx+
4	Not connected
5	Not connected
6	Rx-
7	Not connected
8	Not connected

Note: Use only Raymarine cables when connecting to SeaTalk^{hs}

SeaTalk^{ng} connector



Item	Remarks
Identification	ST2/NMEA2000
Connector type	STNG
Current source to network	No current sourced for external devices
Current sink from network	<160mA (Interface drive only)

Pin	Signal
1	+12V
2	0V
3	Screen
4	CanH
5	CanL
6	SeaTalk (not connected on C / E-Series Widescreen)

Note: Use only Raymarine cables when connecting to SeaTalk^{ng}

