Inmarsat 'B' - VERIPOS L-band Signal Interface

COUPLER EXAMPLES

Rojone coupler

Radiall coupler

Narda coupler

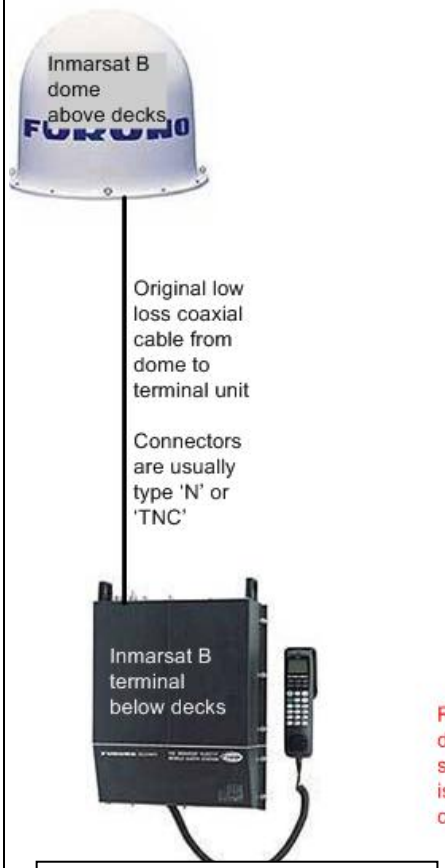
PURPOSE

- To receive the VERIPOS L-band corrections signal via the vessel Inmarsat dome.
- This will receive the Veripos transmissions which are available on the Inmarsat communications satellites AORW, AORE, POR and IOR
- Any of the above couplers can be used with Inmarsat B terminals

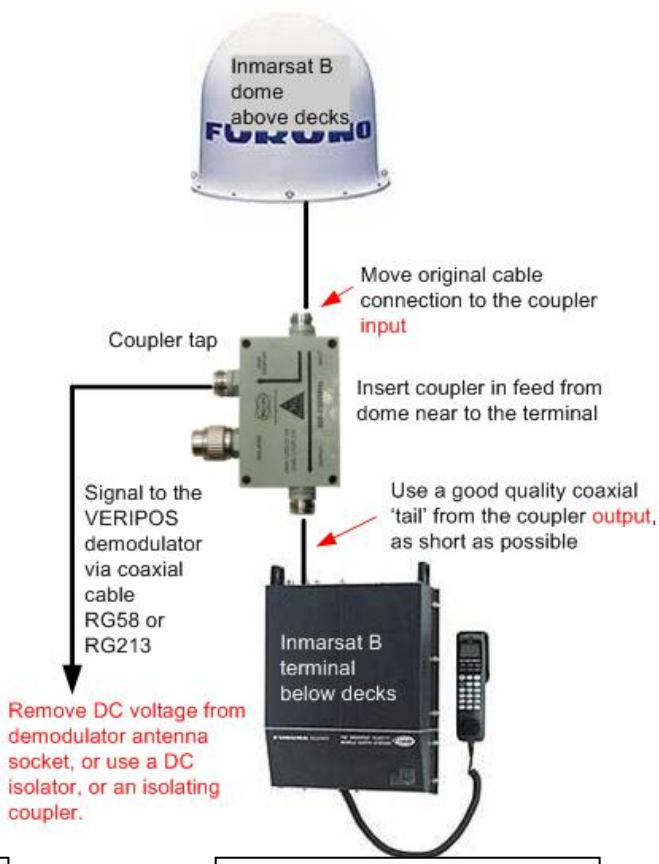
NOTE

Have vessel personnel power down the Inmarsat system before coupler installation. Then have them power up the system and go through any start up procedure required after coupler installation. Check that Inmarsat telephone signal levels are normal after installation

TYPICAL INSTALLATION DIAGRAM



Typical 'Inmarsat B' system before the coupler connection



Typical 'Inmarsat B' system after the coupler connection

Inmarsat B VERIPOS L-band Signal Interface

<table>
<tr><td>RADIALL COUPLER ADJUSTMENT</td><td>The tap on the Radiall coupler can slide in or our to increase or decrease the level of the signal. Signal is highest with the tap pushed in. The sliding tap should be locked in place with the nut by turning it finger tight.</td><td colspan="2"> 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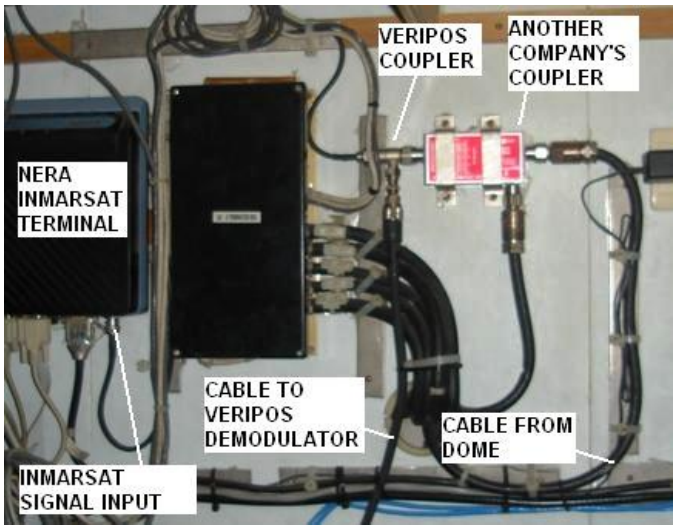
<tr><td>INSTALLATION NOTES</td><td colspan="3">Turn off, or disable, the 12v dc voltage on the demodulator antenna socket. This is usually present to power a spotbeam antenna amplifier, it is not required for the Inmarsat interface and we do not want to risk putting a dc voltage on the Inmarsat terminal antenna cable. Most couplers are dc isolated. In some cases an in-line dc isolator may be required if the dc voltage can not be removed from the demodulator antenna socket.
Take to the installation suitable 'N' to 'TNC' adapters to allow installation in a system which uses 'TNC' connectors.
Take to the installation a suitable short coaxial cable, about 2 feet, to link the coupler to the Inmarsat terminal, plus adapters to use either 'N' or 'TNC' connectors. RG213 would be preferred, or a lower loss cable, to reduce insertion loss.
A 'right angle' coaxial adapter can sometimes be useful for connecting to a unit which is close to a bulkhead.
The coaxial cable from the coupler tap to the demodulator may, usually, be RG58 as the signal levels are typically high. RG213 may be preferable for long cable runs.</td></tr>
<tr><td>'FLEET 77'</td><td colspan="3">Some Inmarsat terminals, for example the Fleet 77 units, have a 'DGPS' output socket. VERIPOS signals can be taken from this socket without the use of a coupler. Note that the output needs to be 'turned on' in the terminal software configuration.</td></tr>
<tr><td>TWO COUPLERS MAY USUALLY BE INSTALLED IN LINE IF THERE IS A COUPLER ALREADY INSTALLED BY ANOTHER COMPANY</td><td colspan="3"> 
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