

## Navtex Antenna Splitter

*proFIL™ series of Professional DSC Antenna Splitters is an alternative to speed up AIS and Navtex installations and to increase total effectiveness of communication.*



proFIL 1322 splits an active Navtex antenna (0.1MHz-30MHz) with Navtex and WeatherFax receivers or MF/HF DSC receivers. It can be used to split any active Navtex antenna that tolerates +10VDC voltage from the receiver.

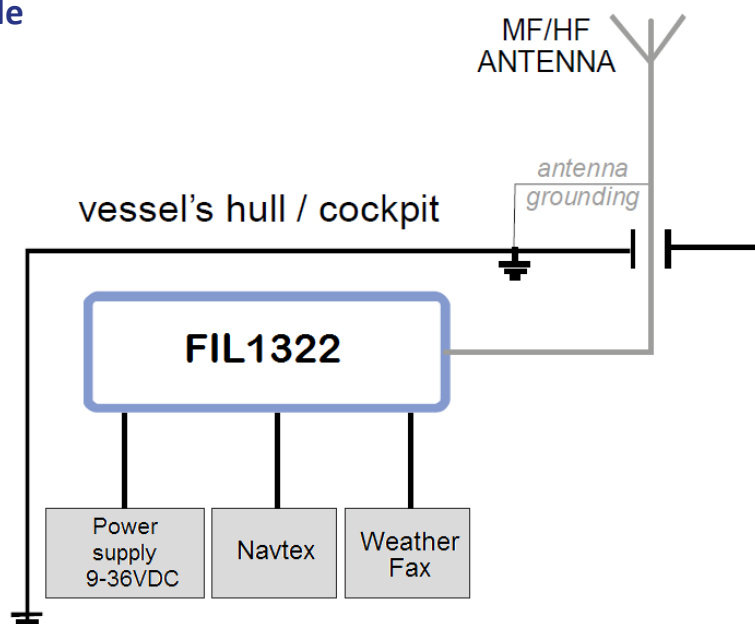
When Navtex is a GMDSS requirement for the vessel, authorization to use proFIL™ kind of splitter have to be obtained from the local maritime authority or classification society.

### Operation

proFIL™ 1322 antenna splitter has internal interference protected power supply that converts vessels 9-36VDC input to 10VDC antenna feed. It has no wearing or serviceable parts. Thus maximizing the reliability. They feature medium RF-isolation between radio ports. As they are wideband splitters they lack the behavior of steep band pass characteristics towards antenna.

It is power splitter-type combiner enabling simultaneous reception from the same antenna port and causes attenuation of 3-4dB of received signal. Anyhow this should be irrelevant when the active antenna has 20-30dB amplifier inside. If low losses, passive operation and high interference rejection are required, proFIL™ antenna combiners should be used instead.

### Connection example



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### Table 1 Electrical Specifications

Electrical Specifications (TA=25°C)	proFIL 1322
Antenna Port	0.1 MHz – 30 MHz
Radio Ports	<b>RX 1:</b> 0.1 MHz - 30 MHz (isolated from body) (splitting) loss: < 3.5dB  <b>RX 2:</b> 0.1 MHz – 30 MHz (isolated from body) (splitting) loss: < 3.5dB
Operation	Passive antenna splitter with galvanic isolated power supply and antenna feed
Power Handling (max simultaneous)	0.1W
Port Isolation (between outputs)	> 17 dB
Port impedance	50 Ω
Connectors	<b>RX 1- 2:</b> UHF-female <b>ANT:</b> UHF-female
Resistance to ground	All ports isolated from the ground and body
Power input	9 – 36 VDC
Power output via ANT port	10 V, 100mA isolated supply

### Table 2 Mechanical and Environmental properties

Mechanical and Environmental properties (TA=25°C)	proFIL 1322
Dimensions	height: 30mm width: 119mm depth: 110mm
Weight	about 340g
Material	Aluminium body
Ingress protection	none
Mounting	wall mounting flanges with M4 holes