

Industry Application - Marine



The Barrett High Frequency (HF) turn-key systems are rugged and versatile, offering 1.6 MHz to 30 MHz, 125W (& 150W) PEP. Barrett Communications transceivers and systems are field proven in over 150 countries around the globe and can be easily configured to meet the customers' exact operational requirements.

The Barrett platforms provide for all common modes of HF transmission including all current Selective Call formats, optional MIL-STD 188-141B Automatic Link Establishment (ALE), and a new generation, simple to operate, frequency hopping option. The Barrett systems are configurable with GMDSS shore to ship systems.



Barrett HF systems are ideal for ship to shore and ship to ship voice and data radio communications for emergency, security and tactical applications. Barrett transceivers can be used in manpack

portable, land mobile, base station and maritime configurations. Barrett offers systems from 30W to 1kW PEP which are suited to shore stations, lightweight boats and large seafaring craft.

Beyond the range where typical line of sight VHF and UHF systems fail; where alternative satellite communications (SATCOM) or terrestrial solutions are unavailable, Barrett digital voice and high speed data solutions have a proven track record in delivering dependable, line of sight and beyond line of sight voice and data communications in maritime applications.

When teamed with other Barrett systems Barrett HF transceivers can provide email, fax and telephone interconnect. The unique design of the Barrett HF Systems afford integrators and end users the ability to customize their installation to meet unique and individual user requirements.

Whether it's noise resistant remote control over serial, IP, fibre optic or other mediums, Barrett systems are ideal to meet the most complex installation requirements.

Barrett HF systems have been installed in Naval, Police and Border Security, cargo and pleasure vessels globally. Barrett HF systems are platform agnostic with adaptable components to accommodate the most difficult scenarios.

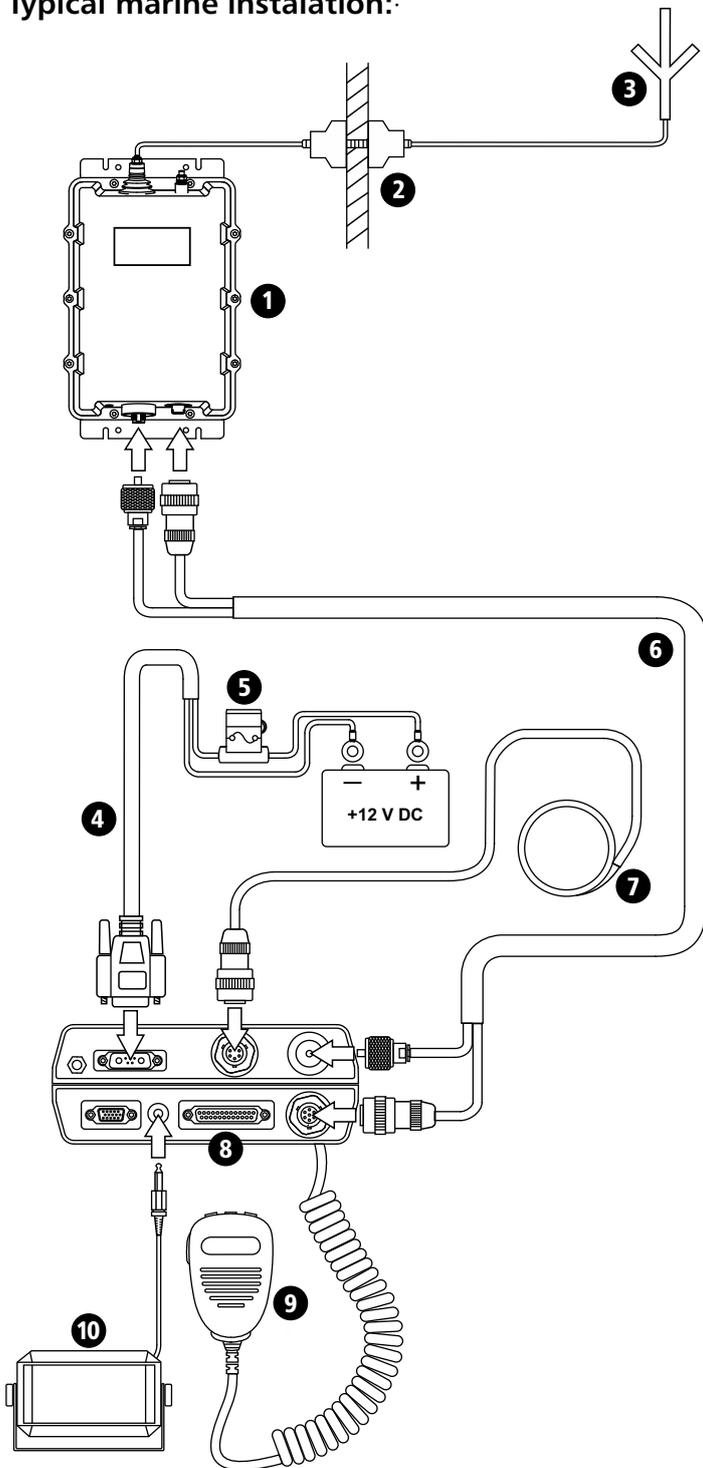


Barrett 4050 SDR Transceiver

Barrett HF systems, when paired with the Barrett 2020 series high speed data modems and digital transmission software are ideal for large and small payload data, with effective data rates up to 19.2kbps and highly efficient chat modes with native language support. Two-way high speed fax and data & email transmission via Barrett 2020 system



Typical marine installation:-



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|---|------------------------------|----|------------------------------|
| 1 | 4011 automatic antenna tuner | 6 | 10m Cable with connectors |
| 2 | Feed through insulator | 7 | External GPS receiver |
| 3 | Antenna | 8 | 4050 SDR HF Transceiver body |
| 4 | 6 metre power cable | 9 | Microphone |
| 5 | Manual circuit breaker | 10 | Extension speaker |

Additional Features Include:-

- STANAG 4539 Military Modems
- Secure Digital Voice & Frequency Hopping options
- Vehicle/Vessel tracking using on board GPS receiver
- SMS text paging facility
- B.I.T.E. (Built in test equipment)
- Network Diagnostics
- Telephone access via Barrett 2060 Telephone Interconnect Base Station allowing Radio Direct Dialed (RDD) to and from the Public Subscriber Telephone Network (PSTN)
- HF to V/UHF cross patching via Barrett 2062 Crosspatch
- High power transmission options using the Barrett 4075 Transmitter

