

## proISO™ series of Galvanical Coaxial Cable Isolators

*proISO™ series of Galvanic Coaxial Cable Isolators for DC-grounded antennas solves immediately ground leak and interference problems in communication system. proISO™ technology is designed especially for demanding marine and military environments.*



proISO™ series of Galvanic Coaxial Cable Isolators allows the use of ground plane-, lightning protected- and grounded antennas in vessels that would otherwise suffer from stray currents and ground leaks. proISO™ series protects against conducted noise and interference. In addition to universal isolator, proISO™ series includes optimized models for FM radio and TV antennas, high power MF/HF systems and marine VHF.

Due to high-performance design of proISO™ it can easily be used between antennas, filters, radios and amplifiers without losing sensitivity of the communication system.

proISO™ technology enables trouble free EMP and EMC protection of coaxial cable inlets in the vessel's hull. If the cable's screen is grounded for potential equalization, EMC shielding or EMP protection, an unwanted DC current path might occur between the vessel's metallic body and radio communication equipment. By installing a proISO™ device just after the cable inlet a complete ground loop protection is achieved. No artificial floatings are required anymore.

### Prevent ground loops and increase performance

- fast deployment in retrofits
- suitable for all radios and antennas
- static discharge protection
- breaks ground loops
- minimizes interference
- makes EMP and EMI protection easy
- fully passive construction
- no wearing components
- customized versions available
- compact size with flexible cable connectors eases installation



### proISO 1021 vs. proISO 1020

proISO 1021 75ohm Galvanic Coaxial Cable Isolator for TV and Radio antennas is specially designed to isolate terrestrial broadcast TV antennas (DVB-T, DVB-T2, ATSC, ISDB-T, DMB-T/H, NTSC, PAL, SECAM) from the ship's electrical ground system. In addition to model 1020 it has inbuilt filtering against VHF/AIS transmission and 450MHz LTE transmission.

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Table 1 Electrical Specifications

Electrical Specifications (TA=25°C)	proISO 1021 (GLI1021)
Frequency range (typical)	80 MHz – 800 MHz
Frequency range (extended)*	-
Impedance	75 Ω
Return Loss (extended)	> 20dB
Insertion Loss (extended)	< 1.0 dB
Power Handling (continuous total)	10 W
Power Handling (peak)**	-
Connectors	BNC-type female
Interference rejection	High against X-band radar, AIS and 450 MHz.
Static Discharge protection	No

(\* works beyond typical operating range with slightly reduced performance)

(\*\* Maximum tolerable peak value for antenna with better SWR < 2.5)

Table 2 Mechanical and Environmental properties

Mechanical and Environmental properties (TA=25°C)	proISO 1021 (GLI1021)
Dimensions	32mm (h) x 57mm (w) x 130mm (l) (with cables 320mm)
Weight	about 200g
Material	Painted aluminium
Ingress protection	IP65 shock proof
Operational environment	-20° - +60° C non condensing
Standards	All proISO™ products are to the standard of IEC60945 to insure safe operation in the environment on relevant parts. Some of the criteria are operating temperature, storage temperature, humidity, vibration, electromagnetical compatibility.

Connection example

