Eight-TETRA-Station Combiner

DESCRIPTION

- The PRO-ISO-PHY-TETRA-S8 combiner provides the possibillity of connecting up to eight TETRA radios into one common antenna.
- All PRO-ISO-PHY units are designed for single carrier signal per port and thus it is not recommended to add a multiple carrier signal on the input ports, as this could potentially create unwanted intermodulation products transmitted on the antenna port and reflected on the input ports.
- ETSI compliant connection of eight digital radios.
- The PRO-ISO-PHY-TETRA-S8 has high isolation between the ports - more than 62 dB - and low insertion loss.
- The use of high-quality system components such as highly selective helical duplex filters and high-performance isolators provides high isolation and secure communication.
- The smallest and most compact design on the market.
- Suitable for both stationary and mobile use.
- Delivered with a 19" front plate for rack mounting (Unassembled).
- Vibration and shock tested in accordance with EN-60068**.
- Jumper cables included.

** Tested in accordance with:
Random test: EN 60068-2-64, test specification: EN 300 019-2-5 V3.0.0.
Shock test: EN 60068-2-27, test specification: EN 300 019-2-5 V3.0.0.
Bump test: EN 60068-2-29, test specification: EN 300 019-2-5 V3.0.0.

SPECIFICATIONS

Electrical	
Model	PRO-ISO-PHY-TETRA-S8
Frequency	Tx : 380 - 385 MHz Rx : 390 - 395 MHz or Tx : 410 - 415 MHz Rx : 420 - 425 MHz
Type	TETRA combiner
Max. Input Power	25 W / station
Insertion Loss Tx-Ant.	< 13 dB
Insertion Loss Rx-Ant.	< 13 dB
Isolation TRx - TRx	Tx - Tx : > 60 dB Rx - Rx : > 60 dB Tx - Rx / Rx - Tx : > 60 dB
VSWR	< 1.5:1
Group Delay Variation	Tx - ANT. < 120 nsec. Rx - ANT. < 150 nsec.
No. of channels	8

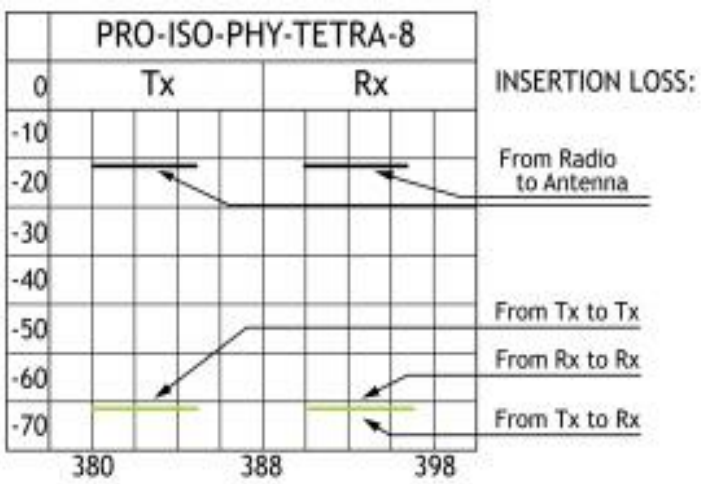
Mechanical	
Connection(s)	N(f)
Colour	Combiner : Black Frontplate : Aluminium
Dimensions	19" x 2 HU x 154 mm (excl. conn.) (482.6 x 88.1 x 154 mm) / 19 x 3.47 x 6.06 in.
Weight	Approx. 5.3 kg / 11.68 lb.

Environmental	
Ingress Protection	IP62

ORDERING

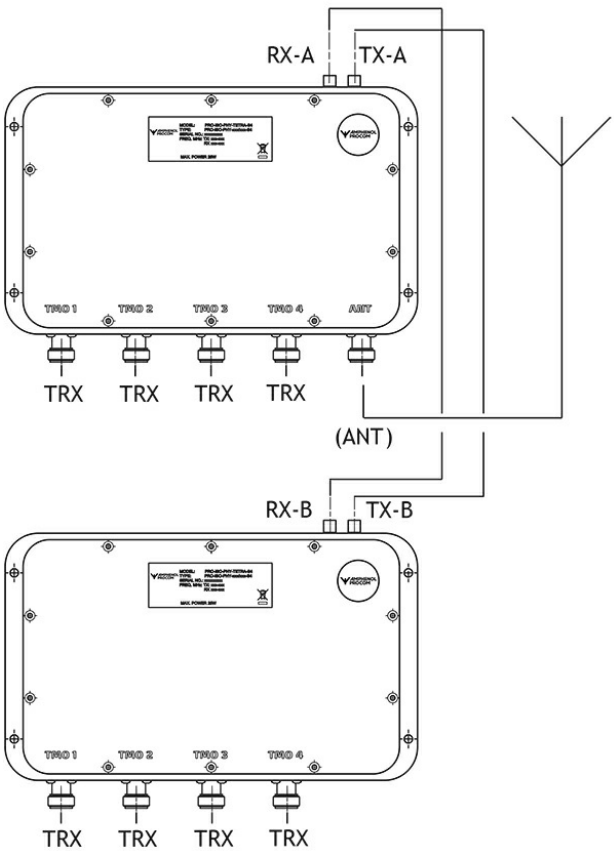
Model	Product No.	Frequency
PRO-ISO-PHY-385/390-S8-TR-B-N(f)	210002359	380 - 385 MHz / 390 - 395 MHz
PRO-ISO-PHY-385/390-S8-TR-F-N(f)	210002360	380 - 385 MHz / 390 - 395 MHz
PRO-ISO-PHY-415/420-S8-TR-B-N(f)	210002361	410 - 415 MHz / 420 - 425 MHz
PRO-ISO-PHY-415/420-S8-TR-F-N(f)	210002362	410 - 415 MHz / 420 - 425 MHz

TYPICAL ATTENUATION VALUES



OPTION TR-F

CONNECTION DIAGRAM



OPTION TR-B