

PRO-ISO-PHY-TETRA-S-ELW

Two TMO TETRA Mobile-Station and one DMO TETRA Mobile Station

- The PRO-ISO-PHY-TETRA-S-ELW combiner provides the possibility of connecting two TMO and one DMO TETRA radios into one common antenna.
- ETSI and DIN-SPEC 14507-2 compliant connection of two digital radios.



DESCRIPTION

- The PRO-ISO-PHY-TETRA-S-ELW supports Direct Mode Operation (DMO), giving one TETRA mobile radio the ability to communicate in direct mode.
- The PRO-ISO-PHY-TETRA-S-ELW is the successor to the PRO-ISO-PHY-TETRA-ELW.
- The PRO-ISO-PHY-TETRA-S-ELW has improved isolation between the ports - more than 60 dB - and lower 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.
- Built-in high-pass filter, for attenuating interference from 150 - 174 MHz and 74 - 87.5 MHz bands.
- The smallest and most compact design on the market.
- Suitable for both stationary and mobile use.
- Also available in tray for 19" rack mounting.
- Vibration and shock tested in accordance with EN-60068**.

**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.

ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
PRO-ISO-PHY-TETRA-S-ELW-N(f)	210002226
ACCESSORIES	
19" Front plate with connectors in front *	210002300
19" Front plate with connectors in back *	210002301

* The frontplates are delivered in a separate packaging with extra screws for mounting on the combiner.

Compatible DMO-modes

The PRO-ISO-PHY-TETRA-S-ELW is compatible with the following DMO modes in 406 - 410 MHz band:

- DM-MS
- DM-REP (1A)

SPECIFICATIONS

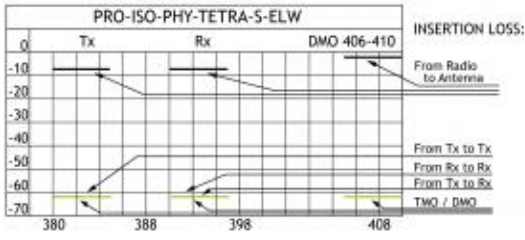
ELECTRICAL	
MODEL	PRO-ISO-PHY-TETRA-S-ELW
TYPE	TETRA combiner
TX/RX FREQUENCY	TX: 380 – 385 MHz RX: 390 – 395 MHz
DMO FREQUENCY *	406 - 410 MHz
INSERTION LOSS TX-ANT.	< 7 dB
INSERTION LOSS RX-ANT.	< 7 dB
INSERTION LOSS DMO-ANT	< 2 dB
ISOLATION TRX → TRX	TX - TX: > 62 dB (380 – 385 MHz) RX - RX: > 62 dB (390 – 395 MHz) TX - RX / RX - TX: > 62 dB
ISOLATION DMO-TMO	> 60 dB
MAX. POWER	25 W / station
SWR	< 1.5
GROUP DELAY VARIATION	TX-ANT.: < 120 nsec. RX-ANT.: < 150 nsec.
MECHANICAL	
CONNECTOR TYPE	N-female
COLOUR	Black
DIMENSIONS (L x W x H)	150 (excl. conn.) x 200 x 35 mm / 5.91 (excl. conn.) x 7.87 x 1.38 in.
WEIGHT	Approx. 1940 g / 4.28 lb.
ENVIRONMENTAL	
IP-GRADE	IP-62

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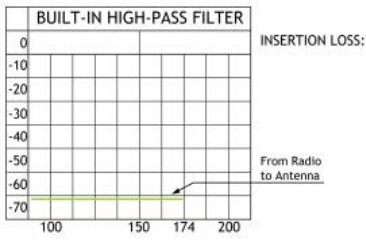
TYPICAL ATTENUATION VALUES



19" Front plate with connectors in front (210002300)



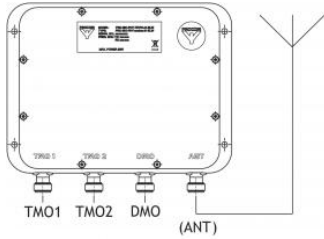
The built-in high-pass filter attenuates large signal interference and harmonic from radiosystems below 174 MHz.



19" Front plate with connectors in back (210002301)



CONNECTION DIAGRAM



MOUNTING DETAILS

