

RADIO ISOLATOR ISO1-SERIES

ELECTRICAL SPECIFICATIONS

Turns ratio	3,53:1
Impedance XLR6 Female	150 ohm
Impedance XLR6 Male	12 ohm
Frequency response	300Hz – 50.000Hz ±2dB
Line input/output power	150mW
DC resistance XLR6 Female	22 ohm
DC resistance XLR6 Male	1,85 ohm
DC unbalance	12mA (max)
Dielectric strenght	100Vrms



CONNECTORS

XLR 6-pole Female	Radio interface	* intent use, may adapt
XLR 6-pole Male	Intercom interface	* intent use, may adapt

MECHANICAL & COMPLIANCE

Material	Anodized Aluminum, Black
IP-rating	IP-54
Dimensions (L x W x H)	130 x 80 x 45 mm
Operating temperature	-40°C to +105°C
Flammability	UL-94 V-0
RoHS	Compliant, RoHS3 directive
REACH	Compliant
ECCN	EAR99

PIN NUMBER	INTERCOM	XLR6 MALE	XLR6 FEMALE	RADIO
1	MIC ← IN +	12 ohm	150 ohm	SPK ← OUT +
2	MIC ← IN -	12 ohm	150 ohm	SPK ← OUT -
3	SPK → OUT +	12 ohm	150 ohm	MIC → IN +
4	SPK → OUT -	12 ohm	150 ohm	MIC → IN -
5	PTT +	0 ohm (short)	0 ohm (short)	PTT +
6	PTT -	0 ohm (short)	0 ohm (short)	PTT -

DOCUMENT REVISION	ERRATA	DATE		
Revision A	Released	28.08.2023		
ORDERING INFORMATION	INTERCOM	RADIO	AUX LEFT	AUX RIGHT
CONNECTOR:	XLR6 MALE	XLR6 FEMALE	XLR3 FEMALE	XLR3 MALE
P/N:	ISO1-150	12 ohm	150 ohm	
P/N:	ISO1-150R	150 ohm	12 ohm	
P/N:	ISO1-300	12/150 ohm	150/12 ohm	
P/N:	ISO1-300R	150/12 ohm	12/150 ohm	
P/N:	ISO1-600	600 ohm	600 ohm	
P/N:	ISO2-150	12 ohm	150 ohm	150 ohm
P/N:	ISO2-150R	150 ohm	12 ohm	12 ohm
P/N:	ISO2-300	12/150 ohm	150 ohm	12 ohm
P/N:	ISO2-300R	150/12 ohm	12 ohm	150 ohm
P/N:	ISO2-600	600 ohm	600 ohm	600 ohm


ACCESSORIES

P/N:	ISO1-xxxF	Flanged end panel, aluminum	* ISO1-series only
P/N:	ISOx-xxxP	Plastic end panel	

CLAUSE

ISO1-series are designed for DCCI U9100 digital intercom radio interface unit with line level audio signals and Push-to-Talk support. Please note that PTT lines are without galvanic isolation or voltage protection. In case full galvanic isolation is required (for example to avoid RF-disturb from radio to intercom) please consult MIDLAND Communications to find proper interface solution. ISO2-series are designed for galvanic AUX audio line isolation.

MIDLAND Communications is not responsible on any possible damages caused by miss use of the device, or power supplied from any third-party device onto signal or PTT lines. Please be sure on XLR-cable wiring before connect.

 Designed and manufactured in Finland.