

## COILED CABLE 7P LE7<>J3M with PREAMPLIFIER FOR EXTERNAL CUSTOMER US TRANSDUCERS: Datasheet

### Description:

The interface cable is an accessory used to ensure compatibility between external ultrasound transducers and SDT devices. Manufactured by SDT, the interface cable enables to connect, filter and amplify any transducers presenting an interesting response around 40 kHz. These cables are highly resistant to chemicals and oils. Their extensiveness is designed for easy manipulation in the field. The cable embeds an electronic interface housed in a stainless-steel tube used as handle.

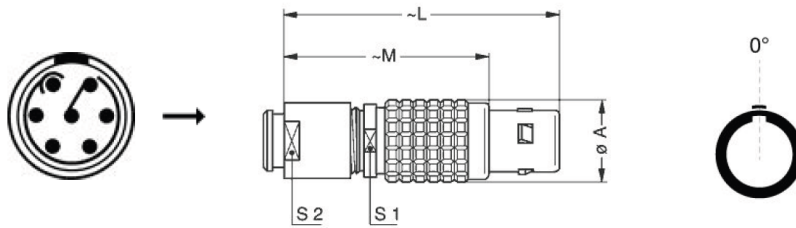


### Specifications:

General		
Function		Interface External Us transducer
Sensor ID		Recognized as ExtUsAmp
Compatibilities		SDT340 (+UAS3/UASLite) – SDT ULTRAChecker
		<i>To ensure cable detection, a firmware update using UAS3 or SDT Updater may be required</i>
Description		S/N 009 YY NNNN
Type		Low voltage cable with pre-amplifier for use with external ultrasound transducers only
SDT reference		FA.SENS.CABL.002
Connector 1 (device side)		LEMO 7 P Male
Connector 2 (transducer side)		3.5 mm jack mono
Standards		REACH, RoHS
Number of internal wires		7 (including 2 shielded)
Diameter of wires	mm <sup>2</sup>	0.14 (26 AWG)
Color		BLUE RAL 5015
Environmental		
Operating temperature range	°C (°F)	-20 to +80 (-4 to 176)
Storage temperature	°C (°F)	-30 to +90 (-22 to 194)
IP rating ( <i>in mated condition</i> )		50 (IEC 60529)
Chemical resistance		acc. to IEC 50363-10-2
Mechanical		
Handle covers		Polyolefin, excellent insulation performance
Handle		Anodized aluminum
Outer diameter (cable only)	mm (in)	∅ 4.20 (0.17)
Spiral diameter	mm (in)	∅ 15 (0.6)
Coiled length (at rest)	m (in)	~ 0.3 (12)
Recommended max. extended cable length	m (in)	~1.4 (55)

## Drawings:

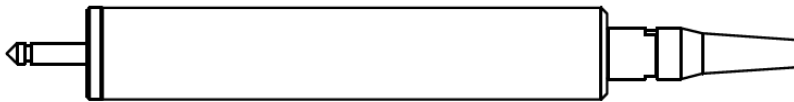
- LEMO 7P (straight IP 50)



### Dimensions

	A	L	M	S1	S2
mm.	9.5	35	25	8	7
in.	0,37	1,38	0,98	0,31	0,28

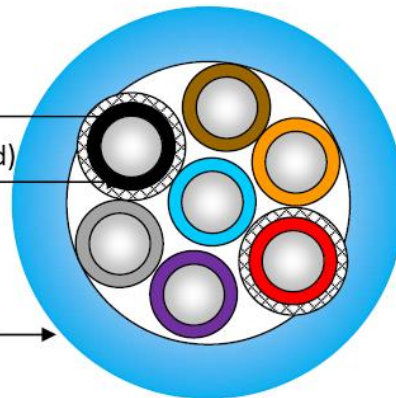
- HANDLE + 3.5mm MONO JACK:



Material: Aluminum  
 Length: 88,5 mm  
 Diameter: 15,5 mm

- CABLE:

Wire : 0.14 mm<sup>2</sup> (26 AWG)  
 Polyester insulation  $\varnothing = 0.85$  mm  
 Wire shielding (0.10 mm tinned copper braid)  
 Outer sheath made of Polyurethane



## Safety recommendations:



- Do not plug the jack into standard inputs/outputs, as this may damage your equipment.
- Do not connect the cable interface to non-ultrasonic transducers, as the measurement is filtered specifically for frequencies around 40 kHz.
- Risk of injury when working in electrical environment.
- Adhere to all safety rules and regulations in your facility.
- Always wear proper protective clothing and use insulated tools when around electrical hazards.
- Do not expose the equipment to rough handling or heavy impacts.
- Always read and follow the user manual (SDT340 or SDT ULTRAChecker).
- Opening the cable may lead to incorrect measurements and void the warranty.
- The equipment should not be used in areas where there is a risk of explosion.
- Do not expose the equipment to high humidity or direct contact with water.
- All repairs must be performed by either SDT or an authorized service provider.

02	CMA 11/05/2023	Production version	CGR
01	CMA 04/05/2023	Original version	CGR
<b>Revision</b>	<b>Writer</b>	<b>Nature of modification</b>	<b>Approved</b>

*The information herein is believed to be accurate to the best of our knowledge.  
Due to continuous research and development, specifications are subject to change without prior notice.*