

CABLES FOR ULTRASOUND SENSORS ON O4US: Datasheet

Description:

Cables for O4US are accessories used to connect permanent sensors RS2T and LUBESense1 to the acquisition system O4US. Assembled by SDT, these cables present good resistance against chemicals and oil. Available in various lengths, the cable interface on the sensor side is a LEMO 7-pole male offering two IP ratings (IP 50 and IP 65). The connection to the O4US, through the cable gland of the enclosure, is achieved by a pluggable terminal block. The cable is designed for fixed installation or for conditional flexible use.



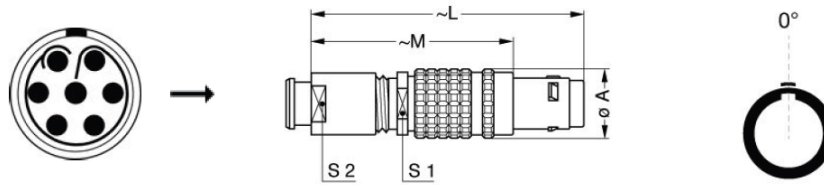
Specifications:

General		
Function		Interface Sensors-O4US
Type		Low voltage energy cable
General requirements		Based on VDE 0481-395
SDT reference		FU.O4US.CABL.00X FU.O4US.CABL.0XX (IP 65)
Connector 1		LEMO 7 P Male
Connector 2		Terminal block 5 P
Approvals		REACH, RoHS (see DoC)
Number of internal wires		7 (among 2 shielded)
Diameter of wires	mm ²	0.14 (26 AWG)
Conductor resistance (at 20 °C)	Ω/Km	< 140
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 (in mated condition)		50 or 65 (EN 60529)
Chemical resistance		Oil resistance acc. to IEC 50363-10-2
Mechanical		
Outer sheath		Polyurethane
Outer diameter (cable only)	mm (in)	∅ 4.20 (~ 0.17)

NB: The resistance to aggressive media should be individually tested for your application. Further details on request.

Drawings:

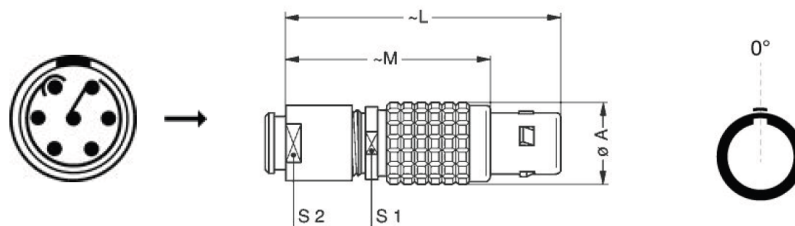
- LEMO 7P (IP 65):



Dimensions

	A	L	M	S1	S2
mm.	9.5	38	28	7.5	7
in.	0,37	1,50	1,10	0,30	0,28

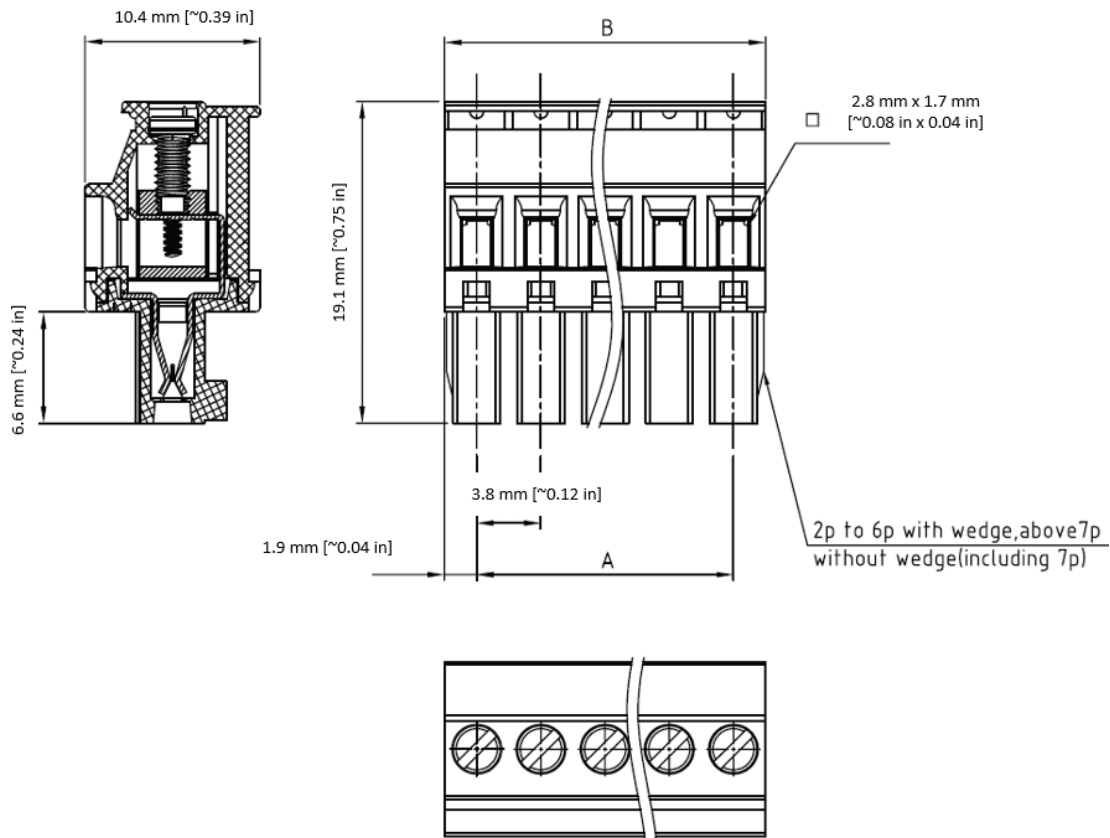
- LEMO 7P (IP 50):



Dimensions

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

- TERMINAL BLOCK:



PITCH = 3.81 mm

$A = (NB \text{ PINS} - 1) \times \text{PITCH}$

$B = NB. \text{ PINS} \times \text{PITCH}$

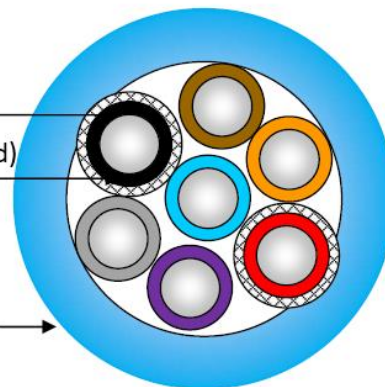
- CABLE:

Wire : 0.14 mm² (26 AWG)

Polyester insulation $\varnothing = 0.85$ mm

Wire shielding (0.10 mm tinned copper braid)

Outer sheath made of Polyurethane



SDT references:

SDT reference	Description
FU.O4US.CABL.001	O4US MK2 Iss.03 - RS2T CABLE (<5m) - CABLE FOR FUSCRS4-01: LE7M<>WRTBL3663-5P
FU.O4US.CABL.002	O4US MK2 Iss.03 - RS2T CABLE (5,1..10m) - CABLE FOR FUSCRS4-01: LE7M<>WRTBL3663-5P
FU.O4US.CABL.003	O4US MK2 Iss.03 - RS2T CABLE (10,1..25m) - CABLE FOR FUSCRS4-01: LE7M<>WRTBL3663-5P
FU.O4US.CABL.004	O4US MK2 Iss.03 - RS2T CABLE (25,1..35m) - CABLE FOR FU.SEN.RS2T: LE7M<>WRTBL3663-5P
FU.O4US.CABL.005	O4US MK2 Iss.03 - RS2T CABLE (35,1..50m) - CABLE FOR FUSCRS4-01: LE7M<>WRTBL3663-5P
FU.O4US.CABL.011	O4US MK2 Iss.03 - CABLE (<5m) FOR RS2 IP65, LUBEsense1 IP65: LE7M IP65<>WRTBL3663-5P
FU.O4US.CABL.012	O4US MK2 Iss.03 - CABLE (5,1..10m) FOR RS2 IP65, LUBEsense1 IP65: LE7M IP65<>WRTBL3663-5P

FU.O4US.CABL.013	O4US MK2 Iss.03 - CABLE (10,1..25m) FOR RS2 IP65, LUBEsense1 IP65: LE7M IP65<>WRTBL3663-5P
FU.O4US.CABL.014	O4US MK2 Iss.03 - CABLE (25,1..35m) FOR RS2 IP65, LUBEsense1 IP65: LE7M IP65<>WRTBL3663-5P
FU.O4US.CABL.015	O4US MK2 Iss.03 - CABLE (35,1..50m) FOR RS2 IP65, LUBEsense1 IP65: LE7M IP65<>WRTBL3663-5P
FU.O4US.CABL.020	O4US - CABLE 7P, LE7F PM<>WRTBL-5P, L= 0,50m FOR RSxT

Further cable lengths on request.

02			
01	CMA 12/09/2022	Original version	CGR 13/09/22
Revision	Writer	Nature of modification	Approved

*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.*