

## CABLES FOR ACCELEROMETER ON O4US: Datasheet

### Description:

Cables for O4US are accessories used to connect standard accelerometers to the acquisition system O4US. These cables present good protection against capacitive interference from electric fields (e.g. power cable). Available in various lengths, the cable interface on the sensor side is a MS2 connector. The connection to the O4US, through the cable gland of the enclosure ensuring IP protection, is achieved by a pluggable terminal block. The cable is designed for fixed installation or for conditional flexible use. It is used in dry and damp interiors but not appropriate for outside usage.



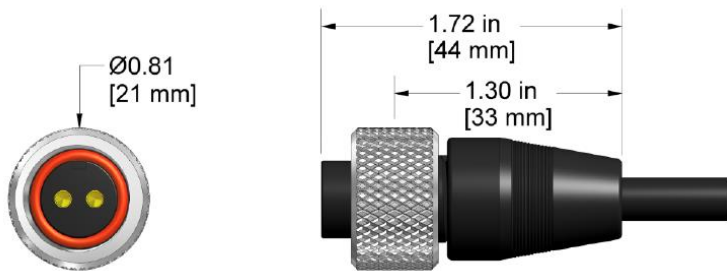
### Specifications:

General		
Function		Interface Sensors-O4US
Type		Low voltage energy cable
General requirements		Based on VDE 0812
SDT reference		FU.O4US.CABL.10X
Connector 1		2 Socket MIL-STYLE
Connector 2		Terminal block 5 P
Approvals		REACH, RoHS (see DoC)
Number of internal wires		3x2, twisted pair
Diameter of wires	mm <sup>2</sup>	0.14 (26 AWG)
Conductor		Fine wire strands of bare copper wires
Screen		Braiding with tinned copper wires
Conductor resistance (at 20 °C)	Ω/Km	< 138
Color		GREY RAL 7032
Environmental		
Temperature range	°C (°F)	Flexing: -5 to +70 (23 to 158) Fixed installation: -40 to +80 (-40 to 176)
IP rating (when plugged and screwed down)		66 (EN 60529)
Flammability		Flame retardant acc. to IEC 60332-1-2
Mechanical		
Outer sheath		Special PVC-based compound
Outer diameter (cable only)	mm (in)	∅ 5.80 (~ 0.20)
Minimum bending radius		Occasional flexing: 15 x cable ∅ Fixed installation: 6 x cable ∅

Further details on request.

## Drawings:

- 2 Socket MIL-Style:

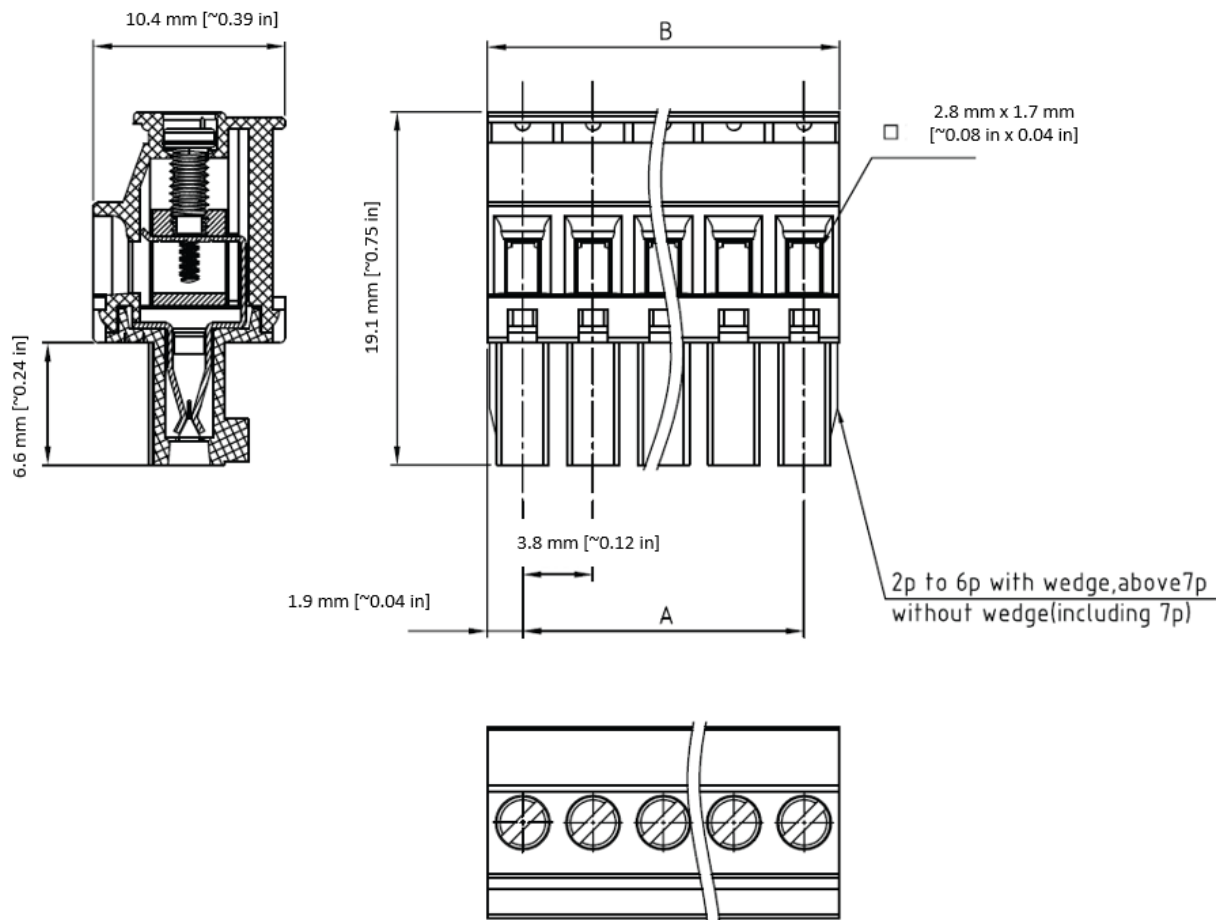


316 L Stainless Steel Locking Ring

Max Temperature: 121 °C/250°F

Shell Material: Polycarbonate Molded, Connector insert Material: Polycarbonate

- TERMINAL BLOCK:



PITCH = 3.81 mm

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

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

## SDT references:

SDT reference	Description
FU.O4US.CABL.101	O4US MK2 Iss.03 - ACCELERO HS100 CABLE (<5m) - CABLE FOR FU.SENS.ACC.001: 2 PIN MS CON<>WRTBL3663-5P
FU.O4US.CABL.102	O4US MK2 Iss.03 - ACCELERO HS100 CABLE (5,1..10m) - CABLE FOR FU.SENS.ACC.001: 2 PIN MS CON<>WRTBL36
FU.O4US.CABL.103	O4US MK2 Iss.03 - ACCELERO HS100 CABLE (10,1..25m) - CABLE FOR FU.SENS.ACC.001: 2 PIN MS CON<>WRTBL3
FU.O4US.CABL.104	O4US MK2 Iss.03 - ACCELERO HS100 CABLE (25,1..35m) - CABLE FOR FU.SENS.ACC.001: 2 PIN MS CON<>WRTBL3
FU.O4US.CABL.105	O4US MK2 Iss.03 - ACCELERO HS100 CABLE (35,1..50m) - CABLE FOR FU.SENS.ACC.001: 2 PIN MS CON<>WRTBL3

Further cable lengths on request.

02			
01	CMA 12/09/2022	Original version	CGR 13/09/22
<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.*