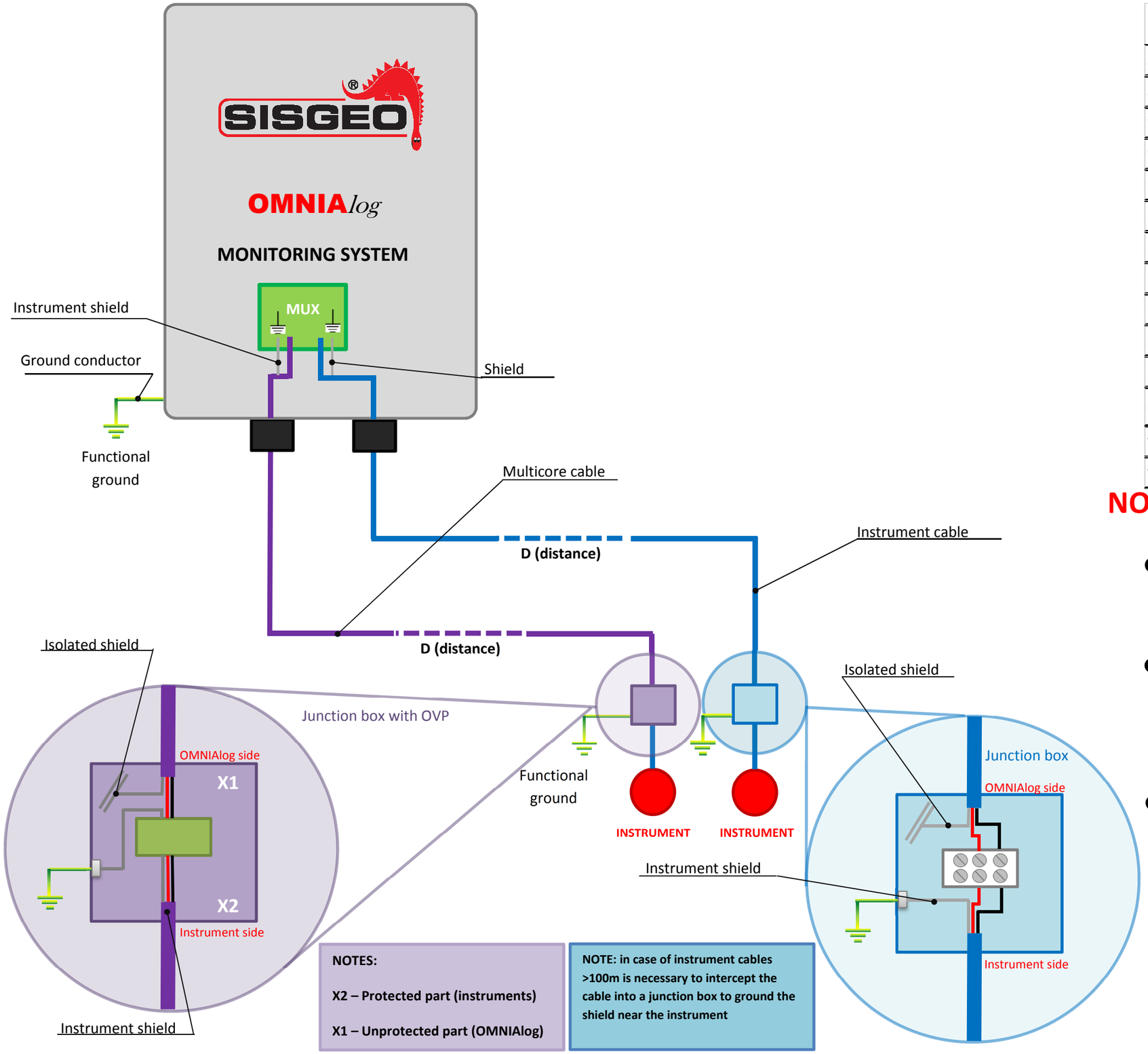
GUIDE LINE FOR OMNIAlog with internal MUX

(rev.1 – 26.06.2014)



Instrument Type	Maximum Distance "D" (m)
4-20mA (2 wires, current loop)	1000
4-20mA (3-4 wires)	1000
Vibrating Wire	1000
Vibrating Wire + Thermistor (NTC	1000
Platinum RTD (PT100)	500
mV (High Impedance)	1000
mV/V (4 wires)	50
mV/V (6 wires)	1000
Servo Inclinometer	60-70
DEX35 (Verticality)	200
DEX35S (Verticality)	200
DEX35S (Bi-axial Inclinometer)	200 (max distance depending to the verticality)
Thermistor (NTC)	1000
TEL-310S	1000

NOTES:

- Cables, both instrumentals and multicores, should not be routed with other cables (i.e. power cables), but they must follow their own path through appropriate metallic conduit.

- Any extension between instrumental cables with multicore cables must be shielded carefully, respecting wires color code and using appropriate cable supplied by the manufacturer. Extension connections must be performed by using junction boxes supplied separately or, alternatively, by welding or through a terminal support.

- It is necessary to connect the instrument cable shields and/or the multicore cable shields directly on the shield terminal board (⏚) present on the MUX board into the OMNIAlog and/or the multiplexer box.
  If the instrument cable is collected through a junction box with OVP or a junction box, it is essential to:
  1. connect the shield into the junction box to give effect to the instrument internal protection;
  2. to avoid ground loop, multicore cable shield coming out from junction boxes must be isolated individually

  as shown in figures.