

## **REQUIREMENTS FOR IS LOOP APPROVALS**

### **Background:**

The purpose of an IS Loop Approval or System Approval is to determine whether or not the different combinations of Field Devices and Barriers meet the criteria of SANS 60079-25 and also determining if the combinations are safe to use in potential hazardous areas.

### **What to submit for the evaluation:**

- Loop / System Drawing (Please see example of a Drawing below)
- Local IA Certificates of the Field Device(s) and Barrier(s) (we can assist if you do not have the local IA Certificates)
- Cable specification indicating the following:
  - Capacitance
  - Inductance
  - Insulation test voltage (>500V, 750V for multi-core cables)

### **Time and Pricing:**

#### **Time:**

If all the required and correct information was submitted to the Laboratory and no changes/corrections are expected, a time frame of 2 days is required to complete the whole evaluation depending on the number of Loops submitted as well as the work load at the time.

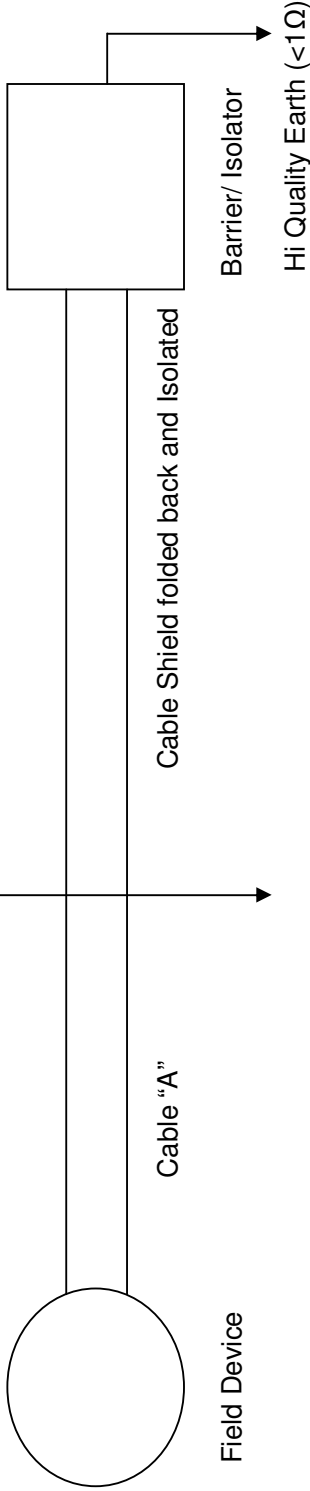
#### **Pricing:**

Please contact us for an accurate quote.

Area Classification:  
 Zone:  
 Gas Group:  
 Temp Class:

Hazardous Area

Safe Area



**Field Device:**

Manufacturer:	Model:	IA Certificate No.:	Ex Rating:	Ui	Ii	Pi	Ci	Li

**Barrier/Isolator Device:**

Manufacturer:	Model:	IA Certificate No.:	Ex Rating:	Uo	Io	Po	Co	Lo

**Cable Specifications:**

Manufacturer:	Model:	Insulation Test Voltage:	Capacitance:	Inductance:	Resistance:	Length:

**Calculations:**

Capacitance:	Inductance:
$Co \geq Ci + Ccable$	$Lo \geq Li + Lcable$
$Uo \leq Ui:$	$Po \leq Pi:$

Drawing No: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Date: \_\_\_\_\_