

<b>Drawing no</b>	001-035	<b>date</b>	27-01-98
<b>Project</b>	Sensor Location	<b>drawn</b>	NJA
<b>Detail</b>	Sensor Enclosure Cable Specification	<b>scale</b>	not to scale
		<b>checked</b>	CBA
		<b>ref:</b>	

REVISIONS				
REV	Description	By	Ckd	Date
A	Added Cable Specification	NJA	CBA	10-04-00
B	Added conduit information	NJA	CBA	20-03-01

## MDM Network Cable Specification

The Cable linking the MDM's is a two core screened cable, UL style 2092 18 awg.

Possible types are:-

RS Stock number 361-361

Alpha 2421

Belden 8760

BICC H8093

Brand Rex BI 56760

### **Only the specified cable types should be used**

The drain wire in the cable is **NOT** to be connected to earth at any MDM point. The drain wire should also be sleeved in order to prevent shorting to either +V1 or +V2. The best type is Pyrotex 1.00 mm - 1.5 mm Neoprene sleeving (due to its flexibility and insulation properties).

## MDM Sensor Cable Specification

The Cable linking the sensor to the MDM should be a 2 core grey cable with an overall CSA per core of at least 0.5 mm

Possible types are:-

RS 377-984

RS 377-928

## PT100 Sensor Cable Specification

The Cable linking the sensor to the interface should be a 3 core braided screened cable with an overall CSA per core of at least 0.5 mm

Possible types are:-

LIYCY 32100703

LIYCY 32100503

## Sensor Wiring and Positioning

Sensors cables must be routed a minimum of a 150 mm away from any other mains cabling. Location and wiring must conform to the latest IEEE regulations.

Evaporator sensors are to placed within the air off grills of the Evaporator. The room sensors are to be fitted as per the diagram on the right.

Waterproof connections should always be used like Scotchlok (RS239-3988)

All cabling must be independent of any other cabling system although it can be installed on a cable tray providing it is kept 150 mm clear of any mains cabling.

