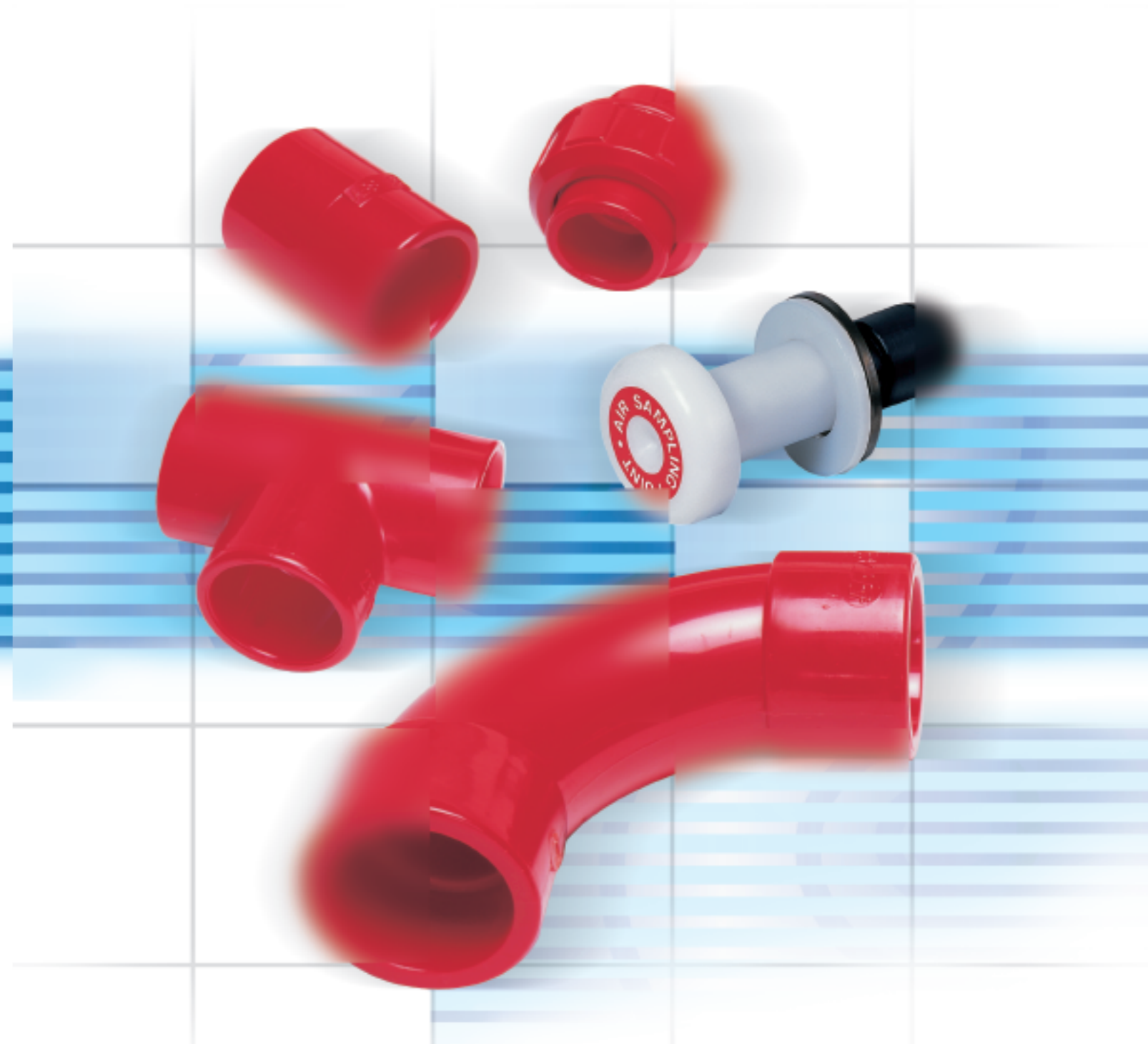


Thermal Coefficient of Linear Expansion for Various Materials



The Right Connections

The AirSense Technology range of sampling pipe, fittings and accessories are designed specifically for use with low pressure/high flow rate aspirating type smoke detection systems.

Our sampling pipe and fittings are manufactured from red ABS (Acrylonitrile Butadiene Styrene). This material was selected because it is easy to install, offers excellent rigidity, chemical resistance, impact strength and weather resistance.

Chemical Resistance
ABS has good resistance to most diluted inorganic acids, salts, animal fats, oils and organic acids. It is not resistant to organic solvents, alcohol, petrol, acetic acid or vegetable oils. Our technical department will advise on its resistance to specific chemicals.

Temperature rating
Our red ABS sampling pipe is suitable for use over a temperature range of -40°C to +60°C.

Thermal expansion
The thermal coefficient of linear expansion for our pipe is $10.1 \times 10^{-3}/^{\circ}\text{C}$.

It is important that the installer takes into considera-

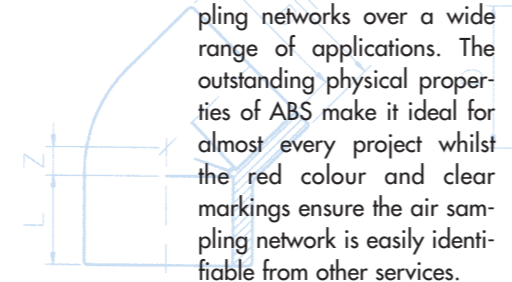
tion the final working temperature of the installed aspirating pipe network and makes suitable allowance for expansion or contraction.

The Thermal expansion of our pipe is compared with other materials in the above chart.

Pipework support centres
Pipes should be supported at not more than 1.2 metre intervals.

Pipe cement
Approximately 400 joints can be made per litre of solvent cement (100 per 250 ml. can).

WARNING - Solvent cement and pipe cleaner are both HAZARDOUS and FLAMMABLE materials.



The AirSense Technology range of pipe fittings and accessories enables the installer to provide efficient, robust and unobtrusive aspirating smoke detection sampling networks over a wide range of applications. The outstanding physical properties of ABS make it ideal for almost every project whilst the red colour and clear markings ensure the air sampling network is easily identifiable from other services.

Our sampling pipe has been tested by the Loss Prevention Certification Board at Borehamwood, UK and is LPCB approved when used as

part of a Stratos-HSSD® system.

Our range of standard equipment has grown in response to the needs of our clients. For those installations having special physical or architectural requirements we have the capability of manufacturing sampling points to suit the application in metal, plastics or even wood. Please contact us to discuss your requirement.

The standard range of pipe, fittings and accessories illustrated in this brochure, have been installed in the following:

- Churches and Cathedrals
- Cold stores
- Aircraft hangers
- Paper Mills
- Hotels
- Warehouses
- Historic buildings
- Telecommunications areas
- Supermarkets
- Power distribution areas
- Food processing areas
- Drug manufacturing areas
- Computer rooms
- Air ducts



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BR80102 Issue 4 All dimensions and figures are correct at time of press.

A comprehensive range of non-toxic red ABS pipe and fittings for aspirating smoke detection systems



Sampling Pipe & Fittings (27mm)

PART No.	DESCRIPTION	COLOUR	QTY
CM 10900	Rigid Sampling Pipe	Red	3 metres
CM 10908	Joining Socket	Red	ea.
CM 10906	90° Bend	Red	ea.
CM 10905	45° deg. Elbow	Red	ea.
CM 10927	End Cap	Red	ea.
CM 10915	Socket Union	Red	ea.
CM 10909	'T' Piece	Red	ea.

Remote Sampling Point Assemblies

Each assembly comes complete with in-line adaptor socket, 1 metre of 10mm O/D flexible nylon tube (see 10925) and sampling point pilot drilled to a 2.5mm dia. in a choice of the styles listed below.

PART No.	DESCRIPTION	COLOUR	QTY
CM 10925	Standard Sampling Point Assembly (flexible tube fixed to sampling point)	as shown	ea.
CM 10945	Sampling Point Assembly (as above but with the detachable sampling point shown)	as shown	ea.
CM 10928	Patress Sampling Point Assembly (as CM 10925 but with the removable sampling point shown)	as shown	ea.

PART No.	DESCRIPTION	COLOUR	QTY
CM 10947	Right Angle Patress Sampling Point Assembly (as CM 10925 but with the removable sampling point shown)	as shown	ea.
CM 10916	Bulkhead Sampling Point Assembly 20mm (as CM 10925 but with the removable sampling point shown)	as shown	ea.
CM 10921	Plain Calibrated Point Assembly (as CM 10925 with calibration plug press fitted to natural nylon tube)	as shown	ea.
Suffix 'E' to above part No's	Optional End Cap Adaptor (replacing in line adaptor for end of pipe sampling applications)	Red	ea.

NB: For variations from the above (tube colour or length) the component parts should be ordered separately from the components list.

Components

PART No.	DESCRIPTION	COLOUR	QTY
CM 10963	10mm Nylon Tube	Red	per metre
CM 10964	10mm Nylon Tube	Natural	per metre
CM 10923	In-line Remote Sampling Point Adaptor	Red	ea.
CM 10922	End Cap Adaptor	Red	ea.
CM 10943	In-line Sampling Point	as shown	ea.
CM 10919	Patress Sampling Point	as shown	ea.
CM 10944	Right Angle Patress Sampling Point	as shown	ea.
CM 10913	Bulkhead Sampling Point (20mm)	as shown	ea.
CM 10914	Plug Sampling Point (for use with 10mm nylon tube above)	as shown	ea.

Fittings and Adaptors

PART No.	DESCRIPTION	COLOUR	QTY
CM 10911	Socket (25mm)	Grey	ea.
CM 10912	End Cap (25mm)	Grey	ea.
CM 10917	In-line Remote Sampling Point Adaptor (25mm)	Grey	ea.
CM 10931	Socket 27mm to 25mm Female	Red	ea.
CM 10946	Adaptor 27mm Female to 25mm Male	Red	ea.
CM 10952	Adaptor 25mm Female to 27mm Male	Red	ea.
CM 10938	1/4" BSP to 10mm Adaptor	Black	ea.

Fixings, Cement and Accessories

PART No.	DESCRIPTION	COLOUR	QTY
CM 10954	Pipe Clip	Red	ea.
CM 10950	Solvent Cement (250ml with Brush)	Clear	ea.
CM 10951	Pipe Cleaner (500ml)	—	ea.
CM 10960	Sampling Hole Warning Labels (Self Adhesive)	as shown	per 100
CM 10961	Pipe Cutters, Ratchet Action	Red	ea.
CM 10941	10mm Manifold	as shown	ea.
CM 10933	Hole Repair Saddle (27mm Pipe)	red	ea.
CM 10948	M6 Flange Nut (used with CM 10930)	—	ea.
CM 10936	Pipe Stand-off Support	—	ea.