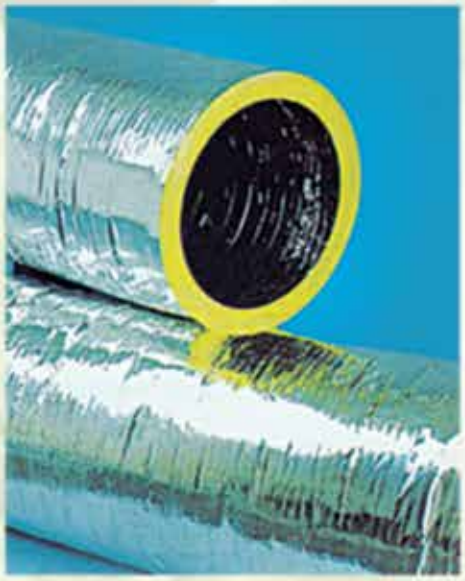
CRAYFLEX®

The Leader in Flexible Air Ducting



- ☑ Economical & Quick
- ☑ Highly Flexible
- ☑ Durable & Efficient
- ☑ Zero ODP
- ☑ GWP Less than 5

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PRODUCT DESCRIPTION

CRAYFLEX® is a very strong fully flexible, compressible light weight duct which is widely used in Air Conditioning and Ventilation Systems for Commercial, Industrial and Residential applications. CRAYFLEX® is extremely durable and will maintain dimensional stability when fully extended. Highly efficient when correctly installed, CRAYFLEX® provides a maintenance free service life under normal operating conditions.

Attention is drawn to the requirement that flexible duct must always be fully extended and bends made with adequate radius to prevent corrugation of the interior with consequent excessive resistance to airflow.

APPLICATIONS AND BENEFITS

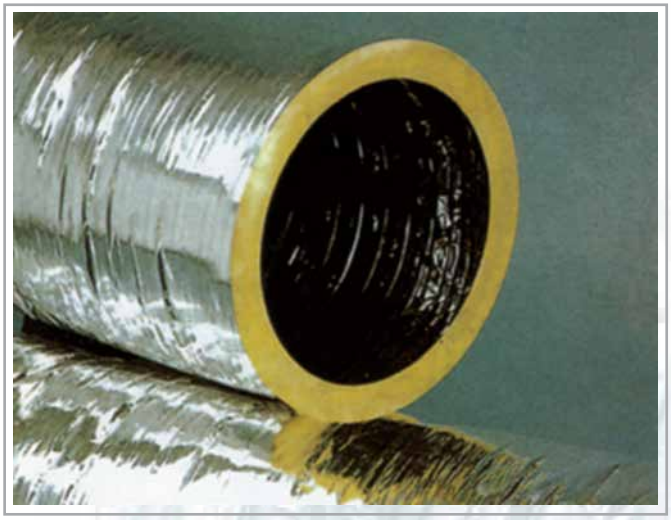
- Ideal for all Air Conditioning / Ventilating Systems including Hospitals, Hotels, Commercial and office Buildings and many other Industrial and Residential applications.
- Available bare or pre-insulated with fiberglass insulation.
- Offers a high degree of flexibility, which allows it to be easily connected to any desired position.
- A quick and economical means of correcting misalignment between system components.
- Allows ducting around obstacles where fabricated and fitted ducts would be difficult and costly to install.

FEATURES AND CHARACTERISTICS

- Tear and puncture resistant construction.
- CRAYFLEX® offers a smooth inner core when correctly installed which provides low friction loss.
- Highly resistant to corrosion and micro organisms.
- Able to withstand medium air pressure.
- Low operating cost.
- Compressed ducts reduces freight and storage costs.
- No air leakage.
- Fire rated to confirm British and Australian Fire Standards.
- Spring steel wire helix assures dimensional stability, resists mechanical abuse and provides more efficient air distribution.
- ODP value zero and GWP value less than 5

CRAYFLEX® INSULATED AND NON-INSULATED PRODUCTS & PERFORMANCE DATA

CRAYFLEX® M1B



CRAYFLEX M1B is made of tough polyester, permanently bonded to a spring steel wire helix and coloured black. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The strong outer insulation jacket/ vapour barrier is made of metallized polyester film laminate.

Standard length	25 ft
Standard Diameters	4" to 18"
Velocity	Maximum 5000 fpm
Fire Rating	Complies with AS 4254 – 1995 and amendments
Puncture Test	Complies with UL part 13
Designed Temperature Range	32° F – 200° F (0° C - 93° C)
Pressure	max 8" w.g positive and ¾" w.g negative
Standard Insulation Thickness	25mm (1")
Standard Insulation Density	16 Kg/m³
Standard Thermal Conductivity	0.039 w/mk at 25° C mean Temperature
Packing	1 piece (25 ft) per carton
Other available Insulation Thick	38mm (1 ½") / 50mm (2")
Other available Insulation Density	24 Kg/m³ / 32 Kg/m³

CRAYFLEX® M1A

CRAYFLEX M1A is made of double laminate of a tough clear Polyester and a metallized polyester film and aluminium coloured core. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The strong outer insulation jacket/ vapour barrier is made of metallized polyester film laminate.

Standard length	25 ft
Standard Diameters	4" to 18"
Velocity	Maximum 5000 fpm
Fire Rating	Complies with AS 4254 – 1995 and amendments
Puncture Test	Complies with UL part 13
Designed Temperature Range	32° F – 200° F (0° C - 93° C)
Pressure	max 8" w.g positive and ¾" w.g negative
Standard Insulation Thickness	25mm (1")
Standard Insulation Density	16 Kg/m³
Standard Thermal Conductivity	0.039 w/mk at 25° C mean Temperature
Packing	1 piece (25 ft) per carton
Other available Insulation Thick	38mm (1 ½") / 50mm (2")
Other available Insulation Density	24 Kg/m³ / 32 Kg/m³

CRAYFLEX® M1A-D

CRAYFLEX M1A-D is an uninsulated flexible duct made of double lamination of tough clear polyester and metallized polyester film permanently bonded to a coated spring steel wire helix.

Standard length	25 ft
Standard Diameters	4" to 20"
Velocity	Maximum 5000 fpm
Fire Rating	Complies with AS 4254 – 1995 and amendments
Designed Temperature Range	32° F – 200° F (0° C - 93° C)
Recommended Operating Pressure	6" w.g positive and ½" w.g negative all Dia
Packing	1 piece (25 ft) per carton

CRAYFLEX® 13APM

CRAYFLEX 13APM is made of triple lamination of aluminium foil, polyester and metallized polyester film permanently bonded to a coated spring steel wire helix. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation.The strong outer insulation jacket / vapour barrier is made of metallized polyester film laminate.

Standard length	25 ft
Standard Diameters	4" to 18"
Velocity	Maximum 5000 fpm
Fire Rating	Certified to BS 476 Part 5, part 6 & part 7
Puncture Test	Complies with UL part 13
Designed Temperature Range	minus 10° F to +200° F (-23° C to +121° C)
Pressure	max 10" w.g positive and 1" w.g negative
Standard Insulation Thickness	25mm (1")
Standard Insulation Density	16 Kg/m³
Standard Thermal Conductivity	0.039 w/mk at 25° C mean Temperature
Packing	1 piece (25 ft) per carton
Other available Insulation Thick	38mm (1 ½") / 50mm (2")
Other available Insulation Density	24 Kg/m³ / 32 Kg/m³

CRAYFLEX® 13APM-D

CRAYFLEX 13APM-D is an uninsulated flexible duct made of triple lamination of aluminium foil, polyester and metallized polyester films permanently bonded to a coated spring steel wire helix.

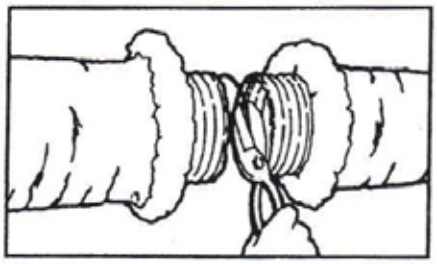
Standard length	25 ft
Standard Diameters	4" to 20"
Velocity	Maximum 5000 fpm
Fire Rating	Certified to BS 476 Part 5, part 6 & part 7
Designed Temperature Range	minus 10° F to +200° F (-23° C to +121° C)
Recommended Operating Pressure	10" w.g for 4" - to 16" dia 6" w.g for 18" - to 20" dia
Packing	1 piece (25 ft) per carton

For specific application the combination of various densities and thickness of fiberglass insulation can be used for manufacturing flexible duct.

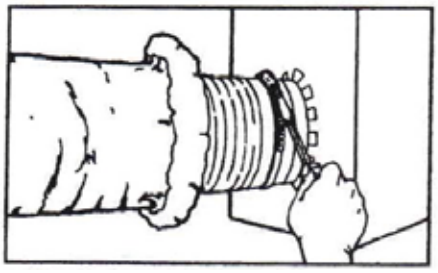
CRAYFLEX®

Recommended Installation Procedure

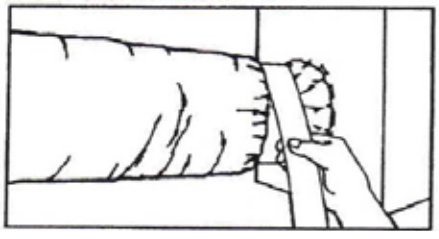
Connections



Required length to be determined, cut completely around and through duct with knife or scissors. Wire to be cut with wire cutters. Fold back jacket and insulation.

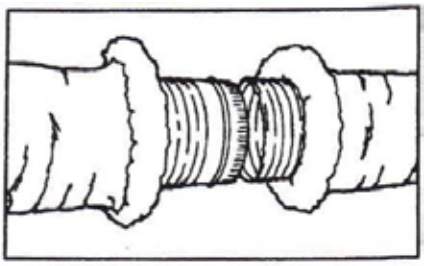


Slide 25mm of core over the filling past the bead. Seal collar with 2 wraps of duct tape. Secure connec-tion with clamp placed over the core andtape and past the bead.

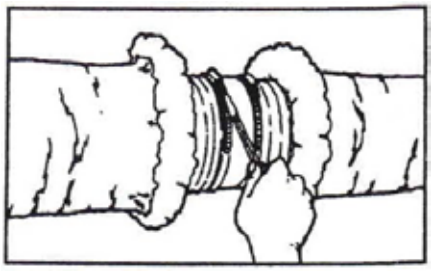


Pull back the jacket and insulation over the core. Apply 2 wraps of duct tape on the jacket. Clamps may be used instead of in combination with the duct tape.

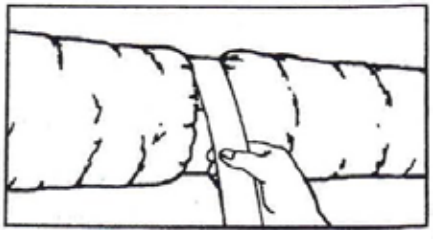
Splices



Roll back jacket and insulation from core. Butt two cores together on a 4” (100 mm) length slide and metal sleeve.



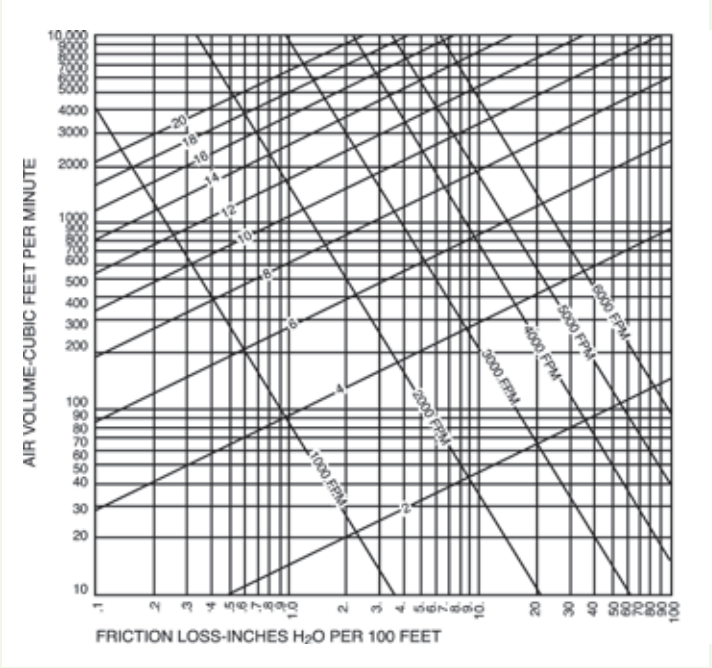
Install two cores together with at least 2 wraps ofduct tape. Secure connection with 2 clamps positioned over the taped core ends and past the beads.



Slide back jacket and insulation over cores. Tape jackets together with at least 2 wraps of duct tape.

FLEXIBLE DUCT - FRICTION LOSS DIAGRAM

FLEXIBLE DUCT - STRAIGHT RUN
FRICTION LOSS PER 100 FT



FLEXIBLE DUCT - STRAIGHT RUN
FRICTION LOSS PER 100 FT