

# ALFA

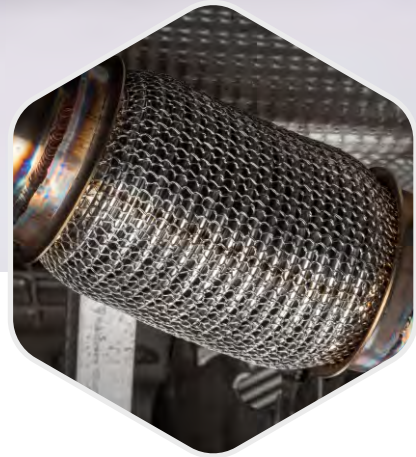


## EXHAUST FLEX PIPE

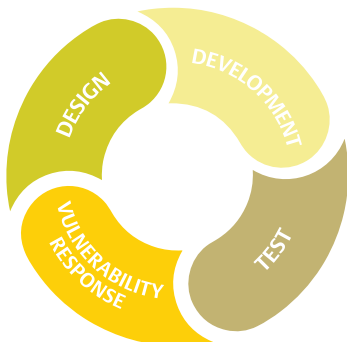


**ALFA FLEXITUBES PVT. LTD**

[www.alfa-flexitubes.com](http://www.alfa-flexitubes.com)



## Why Exhaust System needs a Flex Connector ?



A typical Automotive Exhaust System runs very hot and encounters an extremely corrosive and hostile environment. In addition, the range of motion between a softly mounted engine and exhaust pipe can be dramatic, especially with very little package room.

Engineering a flexible exhaust connector demands careful attention to engine and chassis dynamics to ensure long durability.

*We Offer Great Quality & Durability*



ALFA FLEXITUBES (P)



## High Skills & Technical Capabilities to Deliver the Best Products

### Building Relationships with **Alfa Flexitubes**

- Expert **300+** Professionals
- Export to **10+** Countries
- **30+** Years of Experience



End to end solution



Global Sourcing



Product Quality



Innovation



Design



Customer Relationship

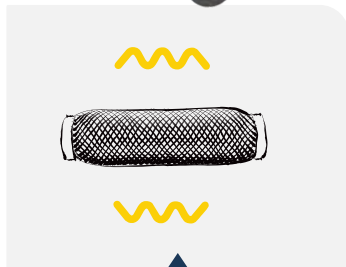
# BEST IN CLASS FLEX CONNECTORS



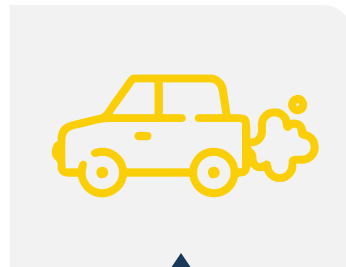
The exhaust connector provides a leak free connection, meeting new emission standards, absorb engine rocking motions, and isolate vibration from the rest of the exhaust system.



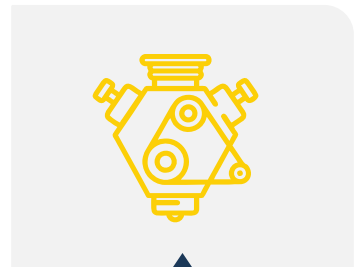
Provide  
Leak free Connection



Isolates Vibrations  
from rest



Meet New  
Standard Emission



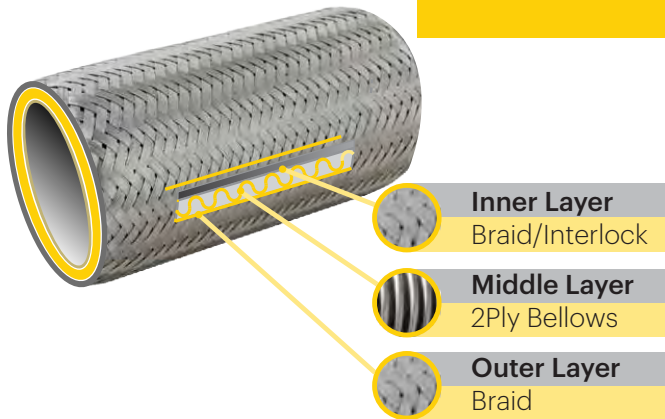
Absorbs Engine  
Rocking Motions



We have engineered thousands of **exhaust connectors** to ensure life-long durability.

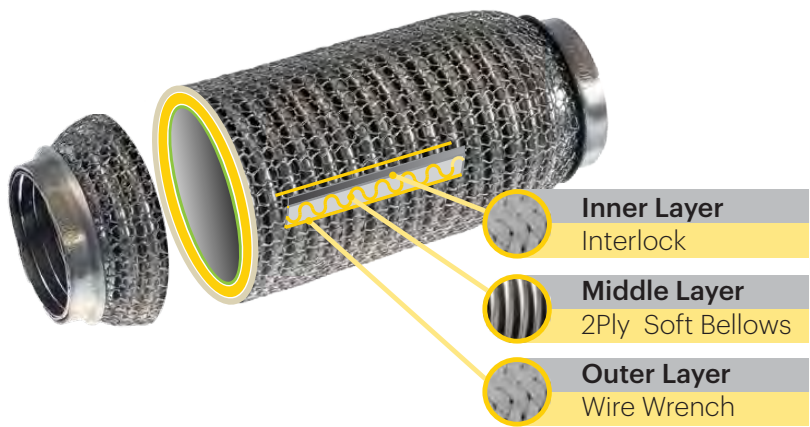
# CRAFTED WITH BEST RAW MATERIALS

## FLEXIBLE PIPE CONNECTORS

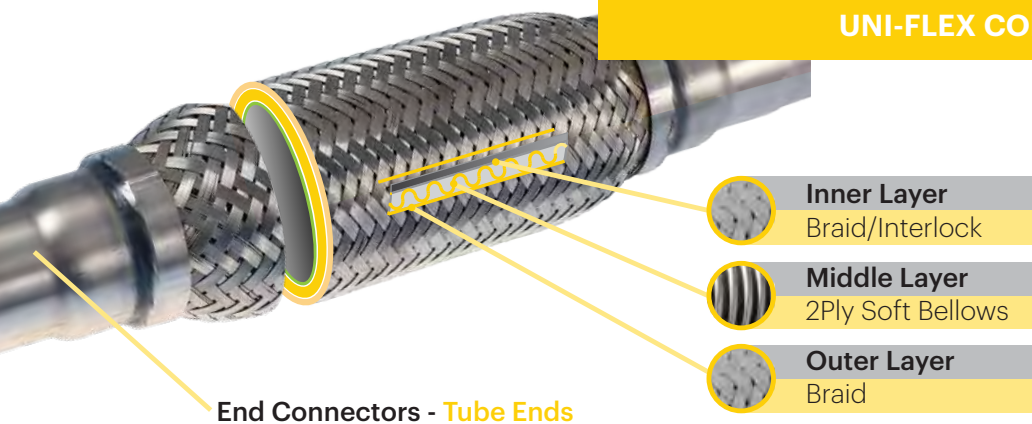


Alfa flexible connectors for welding are used in the catalysts and manifold of diesel and Petrol engines.

## FLEXIBLE CONNECTORS - SOFTFLEX



## UNI-FLEX CONNECTORS

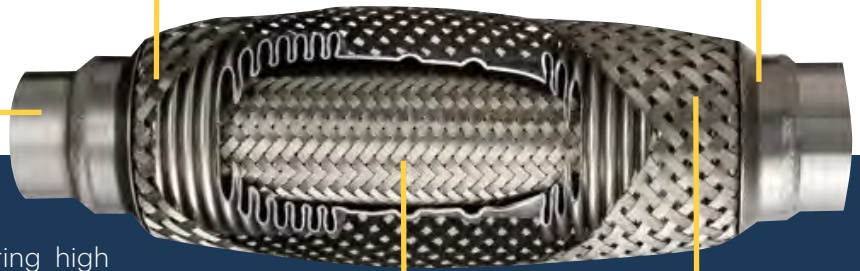


# FEATURES OF ALFA FLEX PIPES

**END CAP EXTENSIONS**  
CUSTOMIZED EXTENSIONS

**BELLOWS CONSTRUCTION**  
STAINLESS STEEL TWIN PLY

**END CAPS**  
ALUMINIZED STEEL



**EXTERNAL BRAID**  
STAINLESS STEEL

**INTERNAL LINEAR**  
STAINLESS STEEL IS  
OPTIONAL

Alfa Flexitubes is also know for manufacturing high quality high performance automotive Flexible Connectors (Automotive Bellows) in OEMs as well as the replacement market and has comprehensive facilities to develop flexible connectors as per customer's design & specifications. A standard range of these connectors are available off the shelf

Standard / Braid Interior / Interlock Lining

Absorbs Engine Vibrations

Compensates for exhaust misalignment

Installed in the front pipe of exhaust system

Reduces NVH

Helps to increase the life of the exhaust system



- Made from high temperature and corrosion resistant materials
- Tow ply construction of Bellows. ( Single Ply or 3 - ply can be supplied on specific orders)
- Closely Knit wire braid gives you more strength and protection to Bellow membrane.
- Made With aluminize Steel Caps & Stainless Steel Caps



# TECHNICAL SPECIFICATIONS



PART NUMBER	NOMINAL SIZE	INSIDE DIAMETER	OVERALL LENGTH OIL	PART NUMBER	NOMINAL SIZE	INSIDE DIAMETER	OVERALL LENGTH OIL
AEC 1/2/3 404	1-1/2" 4"	38.6 mm.	102 mm.	AEC 1/2/3 654	2-1/2" 4"	63.8 mm.	102 mm.
AEC 1/2/3 406	1-1/2" 6"	38.6 mm.	152 mm.	AEC 1/2/3 656	2-1/2" 6"	63.8 mm.	152 mm.
AEC 1/2/3 408	1-1/2" 8"	38.6 mm.	202 mm.	AEC 1/2/3 658	2-1/2" 8"	63.8 mm.	202 mm.
AEC 1/2/3 409	1-1/2" 9"	38.6 mm.	228 mm.	AEC 1/2/3 659	2-1/2" 9"	63.8 mm.	228 mm.
AEC 1/2/3 4010	1-1/2" 10"	38.6 mm.	254 mm.	AEC 1/2/3 6510	2-1/2" 10"	63.8 mm.	254 mm.
AEC 1/2/3 4011	1-1/2" 11"	38.6 mm.	280 mm.	AEC 1/2/3 6511	2-1/2" 11"	63.8 mm.	280 mm.
AEC 1/2/3 4012	1-1/2" 12"	38.6 mm.	305 mm.	AEC 1/2/3 6512	2-1/2" 12"	63.8 mm.	305 mm.
AEC 1/2/3 454	1-3/4" 4"	45.0 mm.	102 mm.	AEC 1/2/3 754	3" 4"	76.5 mm.	102 mm.
AEC 1/2/3 456	1-3/4" 6"	45.0 mm.	152 mm.	AEC 1/2/3 756	3" 6"	76.5 mm.	152 mm.
AEC 1/2/3 458	1-3/4" 8"	45.0 mm.	202 mm.	AEC 1/2/3 758	3" 8"	76.5 mm.	202 mm.
AEC 1/2/3 459	1-3/4" 9"	45.0 mm.	228 mm.	AEC 1/2/3 759	3" 9"	76.5 mm.	228 mm.
AEC 1/2/3 4510	1-3/4" 10"	45.0 mm.	254 mm.	AEC 1/2/3 7510	3" 10"	76.5 mm.	254 mm.
AEC 1/2/3 4511	1-3/4" 11"	45.0 mm.	280 mm.	AEC 1/2/3 7511	3" 11"	76.5 mm.	280 mm.
AEC 1/2/3 4512	1-3/4" 12"	45.0 mm.	305 mm.	AEC 1/2/3 7512	3" 12"	76.5 mm.	305 mm.
AEC 1/2/3 504	2" 4"	51.4 mm.	102 mm.	AEC 1/2/3 854	3-1/2" 4"	90 mm.	102 mm.
AEC 1/2/3 506	2" 6"	51.4 mm.	152 mm.	AEC 1/2/3 856	3-1/2" 6"	90 mm.	152 mm.
AEC 1/2/3 508	2" 8"	51.4 mm.	202 mm.	AEC 1/2/3 858	3-1/2" 8"	90 mm.	202 mm.
AEC 1/2/3 509	2" 9"	51.4 mm.	228 mm.	AEC 1/2/3 859	3-1/2" 9"	90 mm.	228 mm.
AEC 1/2/3 5010	2" 10"	51.4 mm.	254 mm.	AEC 1/2/3 8510	3-1/2" 10"	90 mm.	254 mm.
AEC 1/2/3 5011	2" 11"	51.4 mm.	280 mm.	AEC 1/2/3 8511	3-1/2" 11"	90 mm.	304 mm.
AEC 1/2/3 5012	2" 12"	51.4 mm.	304 mm.	AEC 1/2/3 8512	3-1/2" 12"	90 mm.	102 mm.
AEC 1/2/3 554	2-1/4" 4"	57.2 mm.	102 mm.	AEC 1/2/3 954	4" 4"	101 mm.	152 mm.
AEC 1/2/3 556	2-1/4" 6"	57.2 mm.	152 mm.	AEC 1/2/3 956	4" 6"	101 mm.	101 mm.
AEC 1/2/3 558	2-1/4" 8"	57.2 mm.	202 mm.	AEC 1/2/3 958	4" 8"	101 mm.	202 mm.
AEC 1/2/3 559	2-1/4" 9"	57.2 mm.	228 mm.	AEC 1/2/3 959	4" 9"	101 mm.	228 mm.
AEC 1/2/3 5510	2-1/4" 10"	57.2 mm.	254 mm.	AEC 1/2/3 9510	4" 10"	101 mm.	254 mm.
AEC 1/2/3 5511	2-1/4" 11"	57.2 mm.	280 mm.	AEC 1/2/3 9511	4" 11"	101 mm.	280 mm.
AEC 1/2/3 5512	2-1/4" 12"	57.2 mm.	305 mm.	AEC 1/2/3 9512	4" 12"	101 mm.	304 mm.

### Tolerances

Inside Diameter :  $\pm 0.3$  mm Overall Length :  $\pm 3.0$  mm

Note: Id's 38, 42, 52, 54 & 60 mm can be supplied in different lengths as per the customers specification.

# CONTINUOUS QUALITY CHECKS

## TESTING FACILITY

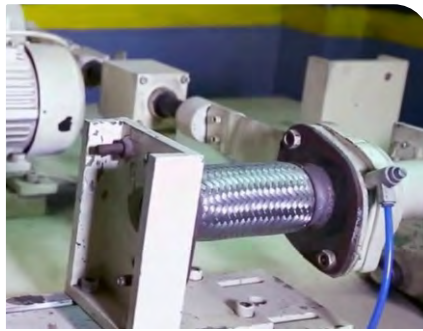
Alfa has In house Test and Validation lab of the products that we offer our customers. Alfa's Product are 100 % tested & Validated for 100 % Customer Satisfaction. Most of production activities at Alfa Flexitubes are conducted on automatic production machines to ensure consistence in quality and enhance productivity. Only tested materials are used for all products.

### IN-HOUSE TESTING METHODS

- Shaker Testing
- Spectro Testing
- Life Cycle Testing
- Pulsation Testing
- Millipore Test with lycra
- Endurance Testing



**STRENGTH TEST**



**FATIGUE LIFE CYCLE TEST**



**PRESSURE PULSE TEST**



**VIBRATION TEST**



**UNIVERSAL TEST**



**MILLI-PORE TEST**



**ENDURANCE TEST**

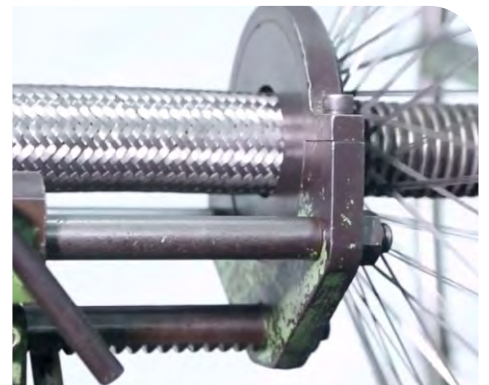


# TECHNOLOGICAL ADVANCEMENT THROUGH INNOVATION



## ROBUST MANUFACTURING FACILITY

Alfa, designed & developed hydro-forming technology indigenously for production of single as well as multi-ply construction bellows in comprehension to mechanical forming used by most other manufacturers.



## ADVANCE TECHNOLOGIES

The hydro-forming technology based bellows have OMEGA- shaped corrugation with no work hardening and wall thinning. This results in better flexibility and longer life.

# OUR PRODUCTS









# EGR TUBES

(Exhaust Gas Recirculation Tubes)



The Exhaust Gas Recirculation (EGR) Tube is a light weight stainless steel flexible assembly which carries unburnt gas vapors from the exhaust manifold chamber to the intake manifold, which is then reintroduced into the engine firing sequence.

We offer a "Single Piece" integrated design flexible EGR Tube assembly. Comprising of single/multiple tube bends along with Bellows.



## FEATURES

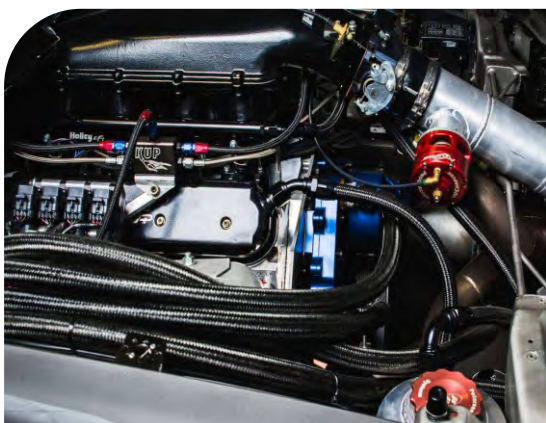
- Reduces Nox
- HPLPS in meeting Latest environmental Norm
- Excellent vibration and durability characteristics
- Easier installation in tight places composed to rigid pipe.
- Flexibility makes alignment of end findings much easier.
- Flexibility Vs. stiffness can be customized as needed.
- Wide variety of standard and custom built end findings available in various materials and finishes



## FLUID CONNECTORS



Alfa Manufactures Fluid & Oil connect Hoses. Hoses are made in Stainless Steel, Rubber & Nylon. Hose assemblies are customised as per customer specifications.



## FEATURES

- Helps meet environmental requirements / Emissions.
- A very compact and short connector, easy for use.
- Variety of angles, geometries, diameters.
- Critical cleanliness guaranteed on all quick connectors.
- Assembly proofing devices.
- Wide range of quick connectors worldwide for fuel lines and all car circuits



# BEND TUBING



## CAREFULLY CRAFTED

Alfa has In house Bending compatibility from size 1/2" (12mm) to 4" (101.6 mm)



Our High Quality Precision Machines helps us in achieving critical bends like 1D in Tube Size 4" (101.6 mm)

**Material: SS 409, Mild Steel, Aluminized**



# FITTING & ACCESSORIES

Alfa Designed & Manufactures high Quality end fittings for critical joints  
We also offer other Exhaust accessories like

- Gaskets
- Clamps
- Rubber Parts



“ *Timely deliveries across the globe are one of the major reason, why people are drawn towards us.* ”



## **ALFA FLEXITUBES PVT. LTD.**

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