

PRODUCT CATALOG



Multi-Layer Composite Pipes (PERT-AL-PERT)
Paired with **EZ-PRESS** fittings



JINDAL
MLCPRO

www.jindaltubes.com/mlc-pro



INSPIRING INNOVATION



Jindal Tubes, a flagship company of the DS Jindal Group, is a trusted and established name in India's plumbing pipe industry, backed by decades of manufacturing expertise and industrial legacy. Built on a foundation of engineering discipline, reliability, and long-term value creation, the company has consistently focused on developing practical, high-performance solutions suited to Indian conditions.

Driven by innovation, Jindal Tubes pioneered the introduction of Multi-Layer Composite (MLC) Pipes in India offering a stronger, safer, and more advanced alternative to conventional piping systems. With multiple state-of-the-art manufacturing units, the company ensures consistent quality, scalable capacity, and dependable supply across the country.

Continuing this journey, Jindal Tubes is expanding into Silent PP Drainage Pipes, engineered to deliver superior sound insulation and improved drainage efficiency for modern infrastructure. This expansion reflects the Group's ongoing commitment to simple, durable, and future-ready plumbing solutions, rooted in trust, quality, and Indian manufacturing excellence.

100+
Channel Partners

60+
Years of Legacy

900+
Projects completed

No.1

INDIA'S LARGEST MANUFACTURER OF MULTI-LAYER PIPES



Andhra Pradesh Unit – Est. 2026

Three times larger and engineered as a next-gen smart factory, our Andhra Pradesh unit supercharges capacity and technology. With advanced MLC lines and India's latest Acoustic PP Pipe systems, it puts Jindal Tubes at the forefront of plumbing innovation and manufacturing excellence.



Dehradun Unit – Est. 2005

Among India's first MLC manufacturing units, our ISO-certified Dehradun facility laid the groundwork for Jindal Tubes' leadership. Powered by European machinery, automated extrusion lines, and a full in-house testing lab, it delivers consistent quality and reliability in every meter.

Jindal MLC Pro elevates multi-layer piping to a higher performance benchmark. Engineered with advanced PERT polymer and premium imported raw materials, it delivers superior pressure and temperature resistance for demanding applications. The reinforced aluminium core remains fully diffusion-tight, while enhanced material stability ensures minimal thermal expansion, controlled snap-back, and long-term reliability under continuous high-load conditions. Designed for projects where performance margins matter.

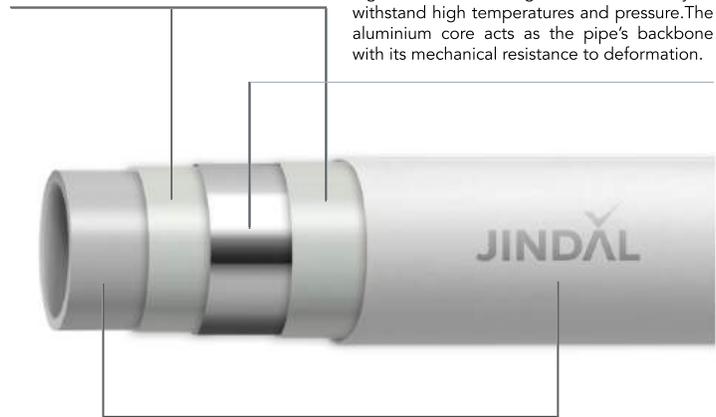


Adhesive Layers

The adhesive layer perfectly bonds the polyethylene and aluminium layers and absorbs the eventual shifting movements between the layers.

Aluminium Core

The aluminium core stays where it lays and has high mechanical strength. It has the ability to withstand high temperatures and pressure. The aluminium core acts as the pipe's backbone with its mechanical resistance to deformation.



Internal & External Polyethylene (PERT) Layers

The Polyethylene layers are lightweight, flexible and chemically inert. It Provides a smooth surface for better flow and is a food grade material.



50 years of working life



Quite flow



Food grade material



Bendable



30% more flow



Easy installation



Light in weight



Low expansions and contraction



Fire retardant



Raw Material - ALUMINIUM

Aluminum is a soft, lightweight, non-toxic and malleable metal with appearance ranging from silvery to dull gray depending on surface roughness. Aluminum alloys have yield strengths ranging from 200 mpa to 600 mpa. For Jindal MLC Pipes, a specialized grade of Aluminum is used which is manufactured specifically for these pipes and have the right balance of strength and flexibility as required for bending applications.

1 MPa = 145 psi = 10 bar = 10kg

SPECIFICATION (mm)	BURST PRESSURE (MPa)	PIPE RING STRENGTH (N)	HYDROSTATIC STRENGTH (MPa)	WORKING TEMPERATURE (°C)		WORKING PRESSURE (MPa)
				MLC PIPE	MLC PRO	
1216	6.0	2300	2.7	-20° ~ 80°	-20° ~ 95°	1.0
1620	5.0	2500	2.7			
2025	4.0	2500	2.3			
2532	4.0	2700	2.1			
3240	4.0	3200	2.1			
4050	3.8	3500	2.0			

THERMAL CONDUCTIVITY : 0.45W/m.k. - about 1/100 of steel pipe but not only several times higher than that of insulating materials. No need of insulation with Jindal MLC Pro. Jindal MLC Pro pipes have an extremely low co-efficient of linear expansion 25×10^{-6} m/m.k., Only 1/8th of all polyethylene pipes, almost same as that of aluminum pipes.

Raw Material - PERT

PERT (Polyethylene of Raised Temperature Resistance) is an advanced polyethylene designed for sustained high-temperature and pressure applications. Its optimized molecular structure delivers thermal stability, long-term strength, and resistance to creep and stress cracking.

It performs reliably in hot and cold water systems, maintaining flexibility, dimensional stability, and pressure integrity over extended service life.



EZ-PRESS CRIMP FITTINGS

Polymer Lock Ring

The polymer lock ring secures the stainless steel press sleeve, ensuring controlled pressing & uniform deformation

Dual Groove Nozzle design

Vertical grooves prevent axial pull-out, while horizontal grooves stop pipe rotation, ensuring a mechanically locked, stable, and tamper proof joint

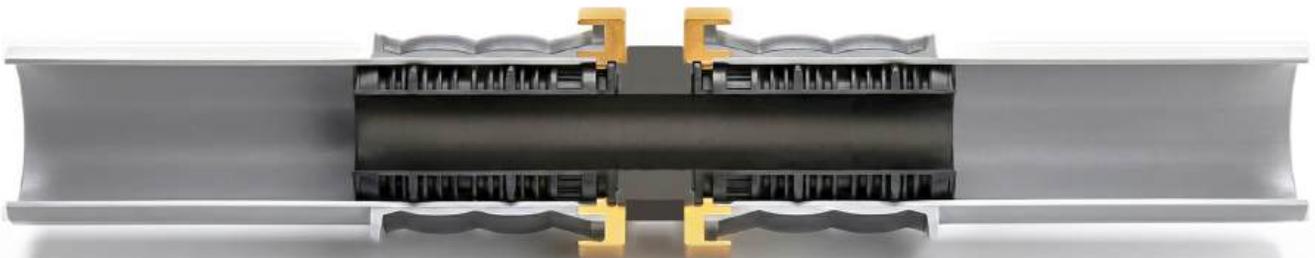
Press sleeve - SS 304

SS 304 press sleeve provides controlled compression, high corrosion resistance, and permanent joint integrity for reliable, leak-proof performance



Double O-Ring Technology

Each nozzle uses dual O-rings to ensure redundant sealing, superior leak resistance, and long-term pressure reliability



Mechanically Locked - Permanent leak proof joint

The cutaway view reveals the internal gripping profile and dual sealing zones, showing how EZ-Press creates a permanent, mechanically locked joint. Uniform compression ensures leak-proof sealing, structural stability, and reliable performance throughout the system's service life.

EZ-Press Fittings are engineered for precision jointing in high-performance plumbing systems. Each fitting features a stainless steel press sleeve combined with an advanced polymer or high-grade brass body, delivering exceptional strength, corrosion resistance, and dimensional stability.

The calibrated press tool creates a permanent, leak-proof joint in seconds, ensuring uniform compression and eliminating installation variability. Designed for large-scale projects, concealed piping, and time-critical installations, EZ-Press maximizes site productivity while guaranteeing long-term reliability and a clean, professional finish.

INSTALLATION GUIDE



1 Cut the pipe from a perpendicular angle using the **Pipe Cutter**



2 Round and chamfer the pipe using a **reamer** with 3-5 rotations for proper insertion



3 Use the Internal/External **Bending Springs** for bending the pipe to avoid dents



4 Insert the pipe fully into the fitting until it is correctly seated and ready for pressing



5 Ensure the pipe is visible through the inspection hole on the SS sleeve



6 Select the correct size press jaw, align it with the sleeve, and press until the cycle is complete

PRODUCT RANGE

*Available in 20mm, 25mm & 32mm



Equal Tee



Unequal Tee



Equal Union



Unequal Union



Equal Elbow



Female Elbow



Male Union



Female Union



Female Tee



MLC PRO Pipe



No.1

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