



Product Code	IPAP101, IPAP102, IPAP103, IPAP104, IPAP105, IPAP106, IPAP107 (Plain coils) IPAP111, IPAP112, IPAP113, IPAP114, IPAP115, IPAP116, IPAP117 (Plain lengths) IPAP501, IPAP502, IPAP503, IPAP504, IPAP1101, IPAP1102, IPAP1103 (Insulated coils – EL) IPAP601, IPAP602, IPAP603, IPAP701, IPAP702, IPAP703 (Insulated Coils – BL) PERT801, PERT802, PERT803, PERT804 (Plain coils PERT Pipe) PERT901, PERT902, PERT903, PERT904 (Insulated coils PERT Pipe)
Description	Multilayer composite pipe. Constructed with an inner and outer layer of either: - Crosslinked polyethylene PE-xB, Silane method 'B', bonded to a longitudinally TIG Butt welded 100% oxygen tight aluminium layer. - Polyethylene of Raised Temperature, bonded to a longitudinally TIG Overlap welded 100% oxygen tight aluminium layer. Supplied in Lengths, Coils, and Insulated Coils.
Application:	General plumbing – potable Hot & Cold-water distribution EN806. General water-based heating systems. Radiant heating systems – Underfloor/wall, embedded.
Connections:	For use with Radial Press Fittings designed to ISO21003 and EN1254-8.
Size Range:	Ø16mm, Ø20mm, Ø26mm, Ø32mm, Ø40mm, Ø50mm, Ø63mm (N.D.)
Min/Max Operating Pressure:	-0.8 Bar - +10 Bar
Min/Max Operating Temperature	-10°C - +95°C (Peak Temperature of 110°C for a maximum duration of 1 Hr)
Material Specification	Pipe: Polyethylene Crossbonded silane Method 'B' (PEX) Pipe: Polyethylene Elevated/Raised Temperature resistance (PERT) Oxygen Barrier: Aluminium 1100
Manufactured to:	ISO9001:2015 ISO14001:2015 EN ISO21003:2008
Approvals/Certifications:	WRAS REG4Uk Approval No.#2304341 KIWA REG4Uk Approval No.#2303773 NSAI EN ISO21003:2008 Approval No.#1.153.001

Application notes:

-MLCP is suitable for installations embedded in concrete/screed for radiant heating applications

(Note: Brass Fittings are NOT suitable for direct embedment into concrete, gypsum, or similar aggressive aggregates. Suitable protection measures are required. Such as chasing/Ducting/sheathing or similar protective measures to protect the brass from direct contact)

-MLCP can be installed outside, provided that, it has an insulation sheath or duct, protecting the tube from excess UV ray exposure.

-MLCP can be installed underground, provided that the installation conforms to National Building Regulations.

-MLCP is prohibited to be installed on the primary line to a solid fuel/uncontrolled heat source.

-MLCP is prohibited to be installed on the primary line to solar applications.

-MLCP is prohibited to be installed as an expansion pipe for the Hot water cylinder.

(This must be metallic as per the current Building Regulations)

-MLCP is prohibited to be installed as the safety blow-off pipe, unless the heat source prevents the temperature exceeding 95°C.

-MLCP requires 1m of metallic pipe before connection to a high heat source, such as Gas/Oil Fired boiler.

Products produced from Brass are not suitable for underground applications!

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Technical Specification table – Plain pipe coils and lengths

Unit of measurement		IPAP101 IPAP111	IPAP102 IPAP112	IPAP103 IPAP113	IPAP104 IPAP114	IPAP105	IPAP107	IPAP115	IPAP116	IPAP117	PERT801	PERT802	PERT803	PERT804
Outer Diameter	Mm	16	20	26	32	16	16	40	50	63	16	20	26	32
Inner Diameter	Mm	12	16	20	26	12	12	32	41	51	12	16	20	26
Weight	Kg/M	0.11	0.147	0.268	0.355	0.11	0.11	0.557	0.797	1.269	0.11	0.147	0.268	0.355
Thickness of Al	Mm	0.25	0.3	0.35	0.5	0.25	0.25	0.5	0.5	0.6	0.25	0.3	0.35	0.5
Total thickness	Mm	2	2	3	3	2	2	4	4.5	6	2	2	3	3
Coil Lengths	M	100	100	50	50	500	200	n/a	n/a	n/a	100	100	50	25
Straight Lengths	M	4	4	4	4	n/a	n/a	4	4	4	n/a	n/a	n/a	n/a
Volume of water	L/m	0.113	0.201	0.314	0.532	0.113	0.113	0.803	1.319	2.014	0.113	0.201	0.314	0.532
Internal roughness	µm	7												
Thermal conductivity	W/m·K	0.4												
Coefficient of expansion	Mm/m/K	0.025												
Degree of cross-bond	%	>65%									N/A			
Oxygen permeability	Mg/l	0												
Colour		White												
Type		Pexb-Al-Pexb									Pert-Al-Pert			
Field of application		Plumbing in civil, commercial, and industrial applications												
Fluid		Potable water, technical water, and water/glycol (<i>max 20%</i>)												
Max peak temperature	-C	110												
Minimum operating temperature	-C	-10												
Maximum operating pressure at 95°C	Bar	6												
Maximum operating pressure at 20°C	Bar	10												
Storage		Avoid prolonged exposure to direct sunlight (UV)												
Minimum Bend radius		5x the diameter												
Fire classification-pipe	Euro class	EL (EN15301)												