LINE INSULATORS





LPI-400 ICT PH-CEP

400 SERIES PERMANENTLY HYDROPHOBIC INSULATORS INTEGRATED CLAMP TOP INSULATOR 11KV TO 15KV

The 400 Series provides superior electrical breakdown strength between stud insert and conductor, eliminating puncture and partial discharge issues prevalent in other pin-type products.

APPLICATION

For use in outdoor medium voltage line post insulator installations. Suitable where very heavy pollution rated insulators are required up to 11kV or where heavy pollution rated insulators are required up to 15kV.

DESIGN

The integrated clamp top insulator is moulded from high strength PH-CEP* permanently hydrophobic cycloaliphatic epoxy resin and combines the proven benefits of our tough Australian made insulators along with an innovative new design that eliminates metallic parts associated with traditional clamp top designs. Now featuring a simple to use single bolt fastening system, the integrated clamp top is a practical design having fewer parts and industry best installation time.

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SPECIFICATIONS	Australasia		North America	
Product Number	LPI-400 ICT PH-CEP		LPI-400 ICT PH-CEP	
For Line Voltage	11	kV	15	kV
Lightning Impulse Voltage	130 W	kV	130 W	kV
Dry Power Frequency Voltage	80 W	kV	80 W	kV
Wet Power Frequency Voltage	59 (kV	59 F	kV
Dry Arc Distance	202	mm	8.0	in.
Creepage	385	mm	15.2	in.
Cantilever	11	kN	2500	lbf
Minimum Tensile Failing Load	20	kN	4500	lbf
Insulator Height	239	mm	9.4	in.
Maximum Shed Diameter	161	mm	6.3	in.
Conductor diameter (Small)#	6-18	mm	1/4 - 3/4	in.
Conductor diameter (Large)#	16-38	mm	5/8 - 11/2	in.
Weight	3.1	kg	6.8	lbs.
Maximum Deviation Angle	30	0	30	0

[🚺] denotes tested flashover value 🏻 W denotes tested withstand value # Clamp reversible

BENEFITS

- ▲ Simplified clamping mechanism reduces cable dressing time, fittings and tools required.
- Alternative method to line tying or multiple fitting metal-type clamps.
- Suitable for covered and bare conductor applications from 6mm up to 38mm diameter.
- Reduces radio interference voltage and provides improved creepage.
- Vertical or horizontal insulator installation without having to rotate and refit the clamp assembly.
- Single clamp fixing to the side of the clamping mechanism makes for straightforward installation.
- Safety improvement especially where clamp engagement is by hot stick tool.
- Conductor stringing is trouble free with commercially available light weight split type tubular quides.
- Robust jaw mechanism is designed to self lock under load and prevent creep, being released only by intentional fixing disengagement.

STANDARDS

EMC Pacific integrated clamp top insulators are designed to meet or exceed the Polymeric Resin Insulator requirements of IEC & AS 62217 (2007) and the relevant performance requirements of AS IEC 60720 (2007), AS/NZS2947.2 (2002), AS 4899 (2007), AS 4435.4 (2005), IEC 61952 (2008), ANSI C29.5 (1984) and CEA LWIWG-02.

QUALITY

Each insulator is put through stringent quality assurance in line with the EMC Pacific ISO9001 Quality Management System, and every product is uniquely identifiable from a UIN located on the base.

ORDERING INSTRUCTIONS

Insulators are supplied in Line Post Type configuration. The LPI variant is supplied with either of the following base insert options:

• M24 • M20 • ¾″ UNC

The PI variant is with either a type A or C pattern (Australia) or ANSI 56 pin pattern (North America). Please specify type and insert selection with order.

^{*}Permanently Hydrophobic Cycloaliphatic Epoxy Resin (patent applied)

Specification and product design are subject to change without notice. All information is accurate at time of printing.

Manufactured in Australia by EMC Pacific Pty Ltd