

type **IPBHT**



With its vast experience in the use of silicone rubber coating on its products, and with this material and its associated technology, Balestro has become the first 100% Brazilian company, to bring to the market the Line Post Insulator, IPBHT model for use in compact transmission lines - thus creating the most efficient power transmission.

The IPBHT insulators are manufactured from a fiberglass rod (core), to which are fixed the connection fittings of hot, galvanized steel. On to this is subsequently applied the insulating coating of silicone rubber, yielding a highly reliable insulator, which is compact, lightweight, with first-rate mechanical resistance and exceptional resistance to weather conditions with an excellent seal (impervious to moisture penetration in the core), according to IEC 61952.

The search for new solutions in power transmission in a sustainable manner without harming the environment is Balestro's constant goal, which makes the use of our Line Post Insulators IPBHT model the most advantageous option in preserving the environment.

The main advantages of using the Balestro's Line-Post insulator are:

- A more compact insulator causing a more discrete visual impact;
- Use of less hardware connections, consequently lower voltage radio interference;
- Easy adaptation to steel, wood or concrete posts which can be used in Double T or circular poles;
- Ease of assembly, storage and transport;
- Lower weight in comparison to conventional line-posts, reducing the cost of the structures;
- High mechanical resistance to bending, not undergoing significant changes over its lifetime;
- Immunity to vandalism;
- Excellent performance in bad weather, especially in environments with a high pollution level because of the characteristics of the silicone casing, such as hydrophobicity which maintains the surface resistance of the insulator still high even under rainfall conditions. Consequently, this avoids the formation of a continuous film of water and dried bands and arcs on the surface of the insulator, which reduces the risk of "flashover" and electrical tracking. This feature of the silicone is transferred to occasional deposits of solid pollutants on the surface of the insulator, while maintaining the hydrophobicity even in polluted conditions;
- High resistance to electrical tracking, erosion and also the proliferation of fungi;
- High thermal stability, not suffering thermal effects even under high temperature conditions, thus conserving their electromechanical characteristics;
- Low toxicity;
- The properties of silicon are preserved over time, which does not happen with other polymeric compounds;
- Always striving for quality in its products, Balestro has its own laboratory where they are thoroughly tested, thus ensuring excellence;
- 100% Brazilian manufactured.

type IPBHT

Ordering Code for the Balestro Line Post Insulator

Balestro Polymeric Line Post Insulator Insulator Voltage Rating Number of Sheds Nominal Cantilever Load

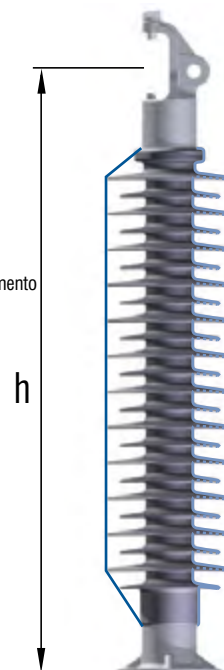
IPBHT 138/TL02/B01/38/CFN

Line Terminal
 TL01: Clamp Top horizontal
 TL02: Clamp Top vertical
 TL03: Drop Tongue

Base type
 B01: Flange base
 B02: Adaptation curve base
 B03: Adaptation flat base

Dimensões

— Distância de Arco
 — Distância de Escoamento



Accessories Line Terminal



TL01:
Clamp Top horizontal



TL02:
Clamp Top vertical



TL03:
Drop Tongue

Base



B01:
Flange base



B02:
Adaptation curve base
For use in Post



B03:
Adaptation flat base
For use in Duple T Post

- + Maximum Load Cantilever of Project (MSCL) = 50% of SCL
- + Specified Traction Load = 70kN

Mechanical Characteristics

Model	Rated Voltage (kV)	Length ⁽¹⁾ (c-c) (mm)	Specified Cantilever Load (SCL) (kN)	Leakage Distance (mm)	Arc Distance (mm)	Weight ⁽¹⁾ (kg)
IPBHT 69/TLxx/Bxx/18/CFN	69	748	20,0	2.097	615	14,3
IPBHT 69/TLxx/Bxx/22/CFN	69	858	20,0	2.541	725	15,8
IPBHT 69/TLxx/Bxx/24/CFN	69	913	19,3	2.805	770	16,5
IPBHT 69/TLxx/Bxx/26/CFN	69	968	18,1	2.985	835	17,3
IPBHT 138/TLxx/Bxx/38/CFN	138	1.298	13,0	4.317	1.165	21,8
IPBHT 138/TLxx/Bxx/42/CFN	138	1.408	11,9	4.761	1.275	23,3
IPBHT 138/TLxx/Bxx/46/CFN	138	1.518	11,0	5.205	1.385	24,8

⁽¹⁾ Considering isolador Clamp Top horizontal + flange base

Electrical Characteristics

Model	Lightning impulse withstand voltage (BIL) (both polarities) (kV peak)	Power frequency withstand voltage (kV rms)		Critical impulse flashover voltage (kV peak)		Power frequency sparkover voltage (kV rms)	RIV (470 kHz) (μV)
		DRY	WET	DRY	WET		
IPBHT 69/TLxx/Bxx/18/CFN	350	195	190	360	395	225	
IPBHT 69/TLxx/Bxx/22/CFN	410	230	225	425	465	265	< 50
IPBHT 69/TLxx/Bxx/24/CFN	435	240	235	450	495	280	
IPBHT 69/TLxx/Bxx/26/CFN	475	285	260	490	535	305	
IPBHT 138/TLxx/Bxx/38/CFN	665	370	360	690	755	460	
IPBHT 138/TLxx/Bxx/42/CFN	725	405	395	750	825	470	< 100
IPBHT 138/TLxx/Bxx/46/CFN	785	440	430	815	895	510	

Due to constant development, this information may be changed without notice. Other models on request.