

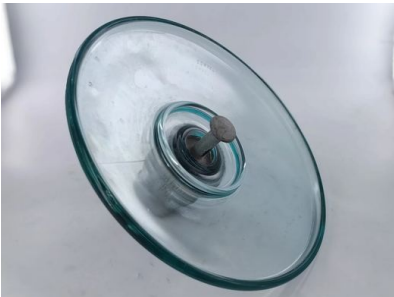
Aerodynamic Type Suspension Toughened Glass Insulators LXAP-70/U170BP-LXAP1-160/U160BP

Classes covered: U70BP, U100BP, U120BP, U160BP

Standards: GB, ANSI, BS, DIN, AS, IEC

Certification: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Lead time: 30 days production plus 30 days delivery



Product Overview

A shed with nothing for sand to hide behind. This family widens the disc to 380 mm across the 70 kN, 100 kN and 120 kN classes, and 420 mm on the 160 kN class, and removes the underribs entirely. Creepage is 365 mm to 390 mm, close to a standard unit, but that is not the point. The point is that airflow across an open profile carries dry deposits away between rain events, in regions where rain may be months apart. Spacing is 146 mm on the three lighter classes and 155 mm on the U160BP, with 16 mm couplings up to the 120 kN class and 20 mm on the 160 kN.

Dimensional Mechanical And Electrical Values

Parameter	LAXP-70 U70BP	LAXP-100 U100BP	LAXP-120 U120BP	LAXP-160 U160BP
Coupling Size mm	16	16	16	20
Diameter D mm	380	380	380	420
Spacing H mm	146	146	146	155
Leakage Distance mm	365	365	365	390
Mechanical Failing Load kN	70	100	120	160
Tension Proof Load kN	35	50	60	80
Low Frequency Dry Flashover kV	65	65	65	75
Low Frequency Wet Flashover kV	50	50	50	50
Critical Impulse Flashover Positive kV	100	100	100	105
Critical Impulse Flashover Negative kV	100	100	100	105
Low Frequency Puncture Voltage kV	130	130	130	130
RIV Test Voltage To Ground kV	10	10	10	10
Maximum RIV At 1000 kHz microvolts	50	50	50	50
Net Weight kg	6.0	6.2	6.3	7.9

Values are the published Huasheng table for this family. Confirm the class against your own specification before ordering.

Key Benefits

- Open 380 mm and 420 mm profile with no underribs for deposits to lodge behind
- Self-cleaning under wind, reducing dependence on live line washing crews
- Four classes from 70 kN to 160 kN mechanical failing load
- Critical impulse flashover of 100 kV up to the 120 kN class and 105 kV on the U160BP
- Same toughened glass self-identifying failure mode as the rest of the range

Materials

- Shell in thermally toughened pressed glass, open aerodynamic profile
- Cap in galvanised malleable cast iron
- Pin in galvanised forged steel, 16 mm or 20 mm ball
- Cement bonding between shell, cap and pin
- Split pin or W clip locking device

Manufacturing Process

Glass batch melting → Open profile shell pressing → Thermal toughening → Thermal shock screening → Cap and pin cementing → Cement curing → Routine mechanical proof load → Electrical routine test → Marking and packing

Quality Control

- Profile and diameter checked against the 380 mm or 420 mm figure for the class
- Every unit proof loaded in tension to 35, 50, 60 or 80 kN by class
- Thermal shock screening before assembly
- Electrical routine testing against the published flashover and puncture values
- Production under an ISO 9001:2015 certified quality management system

Customization

- Private label marking with your own brand
- Production to GB, ANSI, BS, DIN, AS or IEC designs
- Packing specified for long inland transport to remote desert sites

- Engineering support on string wind loading when converting from a standard profile

Handling And Selection Notes

- Confirm the site is dry pollution dominated, sand and dust rather than salt fog
- Select the mechanical class from string tension, 70 to 160 kN available here
- Check the 380 mm or 420 mm shed against tower clearance before ordering
- Recalculate string wind loading when converting from a 255 mm standard profile
- Count units from system voltage and the creepage your standard requires
- Use routine patrol to spot shattered shells, replacement is per unit rather than per string