

Fog Type Suspension Toughened Glass Insulators LXWP1-70-LXWP2-120 U70BLP1-U120BP2

Classes covered: U70BLP1, U70BLP2, U100BLP1, U120BP1, U120BP2

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

Pollution flashover is a creepage problem. This family answers it without touching string geometry. Spacing stays at 146 mm across every class, the same as a standard U70BL or U120B, while leakage distance rises to 400 mm on the P1 profile and 450 mm on the P2. Diameter is 255 mm for P1 and 280 mm for P2. Mechanical classes run 70 kN, 100 kN and 120 kN, all on a 16 mm coupling, so a polluted section can be re-insulated with fog units on the same hardware and the same unit count.

Dimensional Mechanical And Electrical Values

Parameter	LXWP1-70 U70BLP1	LXWP2-70 U70BLP2	LXWP1-100 U100BLP1	LXWP2-100	LXWP1-120 U120BP1	LXWP2-120 U120BP2
Coupling Size mm	16	16	16	16	16	16
Diameter D mm	255	280	255	280	255	280
Spacing H mm	146	146	146	146	146	146
Leakage Distance mm	400	450	400	450	400	450
Mechanical Failing Load kN	70	70	100	100	120	120
Tension Proof Load kN	35	35	50	50	60	60
Power Frequency Dry Withstand kV	80	80	80	80	80	80
Power Frequency Wet Withstand kV	42	42	42	42	50	50
Dry Lightning Impulse Withstand kV	120	120	120	120	120	120
Power Frequency Puncture Voltage kV	130	130	130	130	130	130
RIV Test Voltage To Ground kV	10	10	10	10	10	10
Maximum RIV At 1000 kHz microvolts	50	50	50	50	50	50
Net Weight kg	5.2	5.8	5.2	5.9	5.3	6.0

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

Key Benefits

- 400 mm or 450 mm creepage against 320 mm for the equivalent standard class
- 146 mm spacing unchanged, so string length and tower clearance stay as designed
- 16 mm coupling throughout, mates with hardware already on the line
- Power frequency dry withstand of 80 kV across the whole family
- Dry lightning impulse withstand of 120 kV across the whole family

Materials

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

Manufacturing Process

Glass batch melting → Bell 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

- Creepage verified against the 400 mm or 450 mm figure for the profile
- Every unit proof loaded in tension to 35, 50 or 60 kN by class
- Thermal shock screening before assembly
- Electrical routine testing at the published withstand values
- Production under an ISO 9001:2015 certified quality management system

Customization

- Choice of P1 and P2 profile for the pollution severity at your site
- Private label marking with your own brand
- Production to GB, ANSI, BS, DIN, AS or IEC designs

- Packing specified for coastal and marine transport where corrosion in transit is a concern

Handling And Selection Notes

- Establish the pollution severity level for the section, measured or from the site environment
- Calculate the specific creepage your standard requires in mm per kV of system voltage
- Divide by the unit creepage, 400 mm or 450 mm, to get the unit count for the string
- Choose the mechanical class from the string tension, 70, 100 or 120 kN here
- Fit fog units throughout the polluted section, the lowest creepage unit governs the string
- Record flashover events by section so re-insulation can be targeted rather than blanket