

Toughened Glass Suspension Insulator Range Catalog

Jiangxi Huasheng Insulators Co., Ltd. | Established November 2017 | Luxi Industrial Park, Pingxiang, Jiangxi, China

Up to 500 kV AC and 400 kV DC | Standards: GB, ANSI, BS, DIN, AS, IEC | Exported to 40+ countries

Certification: ISO 9001:2015 Quality Management System; ISO 14001:2015 Environment Management System; ISO 45001:2018 Occupational Health and Safety Management System

Company

Jiangxi Huasheng Insulators Co., Ltd. was established in November 2017 and makes toughened glass suspension insulators at Luxi Industrial Park in Pingxiang, Jiangxi, China. Toughened glass cap and pin suspension insulators for overhead transmission lines and substations, in standard, fog and aerodynamic shed profiles, from U40B through U500B.

The Problem These Products Solve

Porcelain and composite units fail invisibly. A punctured porcelain cap holds its shape and a degraded composite core hides inside a housing, so crews find them only with thermal or E-field survey gear. A toughened glass shell shatters and leaves the pin stub hanging, so the defective unit is identified on a routine ground patrol and replaced during planned work.

Product Families

Standard Type Insulator — Ribbed profile cap and pin units covering U40B through U500B, the default choice for clean and lightly polluted line environments.

Fog Type Insulator — Anti-pollution bell profile units giving 400 mm or 450 mm creepage on the same 146 mm spacing as a standard unit.

Aerodynamic Type Insulator — Open flat profile units 380 mm to 420 mm wide with no underribs, so wind and rain clear deposits instead of trapping them.

Standard Type Suspension Toughened Glass Insulators LXP40-LXP160

Classes covered: U40B, U70BS, U70BL, U100BL, U120B, U160BS

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



Overview

The working range of a transmission line. Six strength classes from a 40 kN U40B up to a 160 kN U160BS, all in the standard ribbed shed profile, all cap and pin toughened glass. Shed diameter runs 175 mm to 280 mm and spacing 110 mm to 146 mm, so these units drop into conventional tower geometry without redesigning clearances. Couplings are 11 mm on the smallest class and 16 mm across the U70B to U120B group that makes up most suspension string work.

Published Table

Parameter	LXP40 U40B	LXP1-70 U70BS	LXP2-70 U70BL	LXP-100 U100BL	LXP-120 U120B	LXP1-160 U160BS
Coupling Size mm	11	16	16	16	16	20
Diameter D mm	175	255	255	255	255	180
Spacing H mm	110	127	146	146	146	146
Leakage Distance mm	190	320	320	320	320	400
Mechanical Failing Load kN	40	70	70	100	120	160
Tension Proof Load kN	20	35	35	50	60	80
Power Frequency Dry Withstand kV	55	70	70	70	70	75
Power Frequency Wet Withstand kV	30	40	40	40	40	45
Dry Lightning Impulse Withstand kV	75	100	100	100	110	110
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	1.6	3.7	3.8	4.0	4.2	6.5

Standard Type Suspension Toughened Glass Insulator LXP3-160-LXP-550

Classes covered: U160BL, U210B, U240B, U300B, U420B, U500B

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



Overview

Where strings stop being routine. Six classes from a 160 kN U160BL to a 550 kN U500B, still the standard ribbed profile but built on a heavier frame. Diameter runs 280 mm to 380 mm, spacing 170 mm to 240 mm, and couplings step from 20 mm through 24 mm and 28 mm to 32 mm. Leakage distance rises with the frame, from 400 mm on the lighter classes to 640 mm on the U500B. This is the family a tension set on an angle tower, a dead end, or a long crossing span is built from.

Published Table

Parameter	LXP-160 U160BL	LXP-210 U210B	LXP-240 U240B	LXP-300 U300B	LXP-420 U420B	LXP-550 U500B
Coupling Size mm	20	20	20 or 24	24	28	32
Diameter D mm	280	280	280	320	360	380
Spacing H mm	170	170	170	195	205	240
Leakage Distance mm	400	400	400	485	550	640
Mechanical Failing Load kN	160	210	240	330	420	550
Tension Proof Load kN	80	105	120	150	210	275
Power Frequency Dry Withstand kV	75	75	75	75	75	75
Power Frequency Wet Withstand kV	45	45	45	50	50	50
Dry Lightning Impulse Withstand kV	115	115	115	130	130	130
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	6.6	7.1	8.0	10.7	14.5	18.2

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



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.

Published Table

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

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



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.

Published Table

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

Ordering And Delivery

Specification Review. We map every line of the schedule onto a column in our published tables and come back with what matches, what is equivalent and what we do not make.

Class Confirmation. Our tables publish tension proof load for every class, from 20 kN on a U40B to 275 kN on a U500B, so the set is sized against the value the units are actually proof loaded to.

Production Scheduling. The standard schedule is 30 days production plus 30 days delivery. We confirm the delivery window against the site programme at order stage rather than after.

Routine Testing. Mechanical and electrical routine testing is part of production for every unit. Tell us what your acceptance process requires and it travels with the goods.

Packing. Packing is specified against destination, transport mode and the number of handling legs, including the inland run to a remote site.

Shipment. Quantities, marking and carton contents are fixed with the order so what arrives can be checked against the schedule without unpacking every crate.

After Delivery. Units are marked with class and year, and the agreed specification stays on file against the project.

Contact

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