



jaipuria brothers
Electricals Pvt. Ltd.

PRICE-LIST

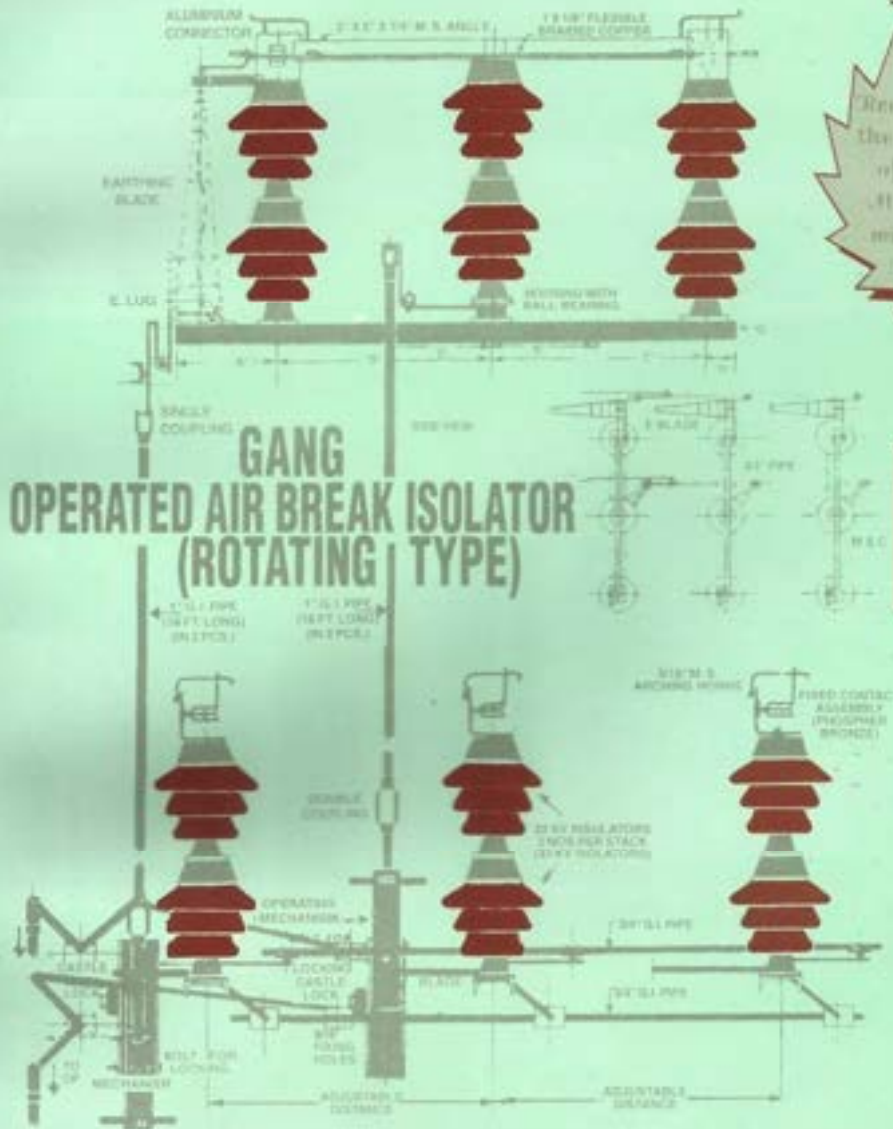
W.E.F. Dated 25-7-2021

40

YEARS OF SERVICE



GANG OPERATED AIR BREAK ISOLATOR (ROTATING TYPE)



An
ISO : 9001
Certified
Company

11 KV - 22 KV - 33 KV

- Air Break Isolating Switches
- Dropout Fuses
- Lightning Arrestors
- Porcelain Insulators
- Earthing Materials
- ACSR Conductors & Accessories
- Power Aluminium Bolted Type Connectors
- Rubber Matting



*People Dedicated to
Quality Generation, Transmission
Distribution & Material*

We
The Jaipuria Brothers
Electricals Pvt. Ltd.
Who rush to
Follow You to Push
INDIA
into
Twenty First Century
through Activated Quality
Product Material To Power
Systems Media

We are
On tip of
your tongue
For Good Services

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ESTABLISHMENT ❖

PEOPLE ❖

PROVEN CAPABILITIES ❖

MAJOR CLIENTS ❖

ACHIEVEMENT ❖

ESTABLISHMENT



Name : **JAIPURIA BROTHERS ELECTRICALS PVT. LTD.**

Status : Formerly Jaipuria Brothers from 1974

Establishment : Private Limited Company 2005

Director : MEHUL JAIN

Mobile : 9818347489

Office : 1) 12/56, D.B. Gupta Market, D.R. Chambers,
2nd floor 201, Karol Bagh New Delhi-5

Phone : 011 - 4505 2660

2) 1749 /4 , Bhagirath Palace Chandni Chowk ,
Delhi - 110006

Phone : 011 - 23873581, 011 - 23863300

E-Mail : jaipuriabros@gmail.com

Website : www.jaipuriabrothersselect.com

Factory : F - 16 - 17, Ganga Vihar, Gokul Puri, Shahdara, Delh

Mobile : 9810030230

Factory : 91 - A, Gangyal Industrial Area, Jammu (J&K)

PEOPLE



✱

- We : Supply for the materials equipments, Generations, Transmission & Distribution Systems for Industrial, Commercial and Residential Sectors
- Through : Highest Standards of Quality and Time Limit adherence.
- How ? :
 - We have deep sense of Devotion for the task entrusted to us.
 - We love quality : We are Highly Quality Conscious.
 - We execute the Whole Order with the help of our Manufacturers only to maintain desired level of workmanship.
 - We have a Team of Person with vast experience of relevance.
 - We have full Technical Competence.
 - We respect our Valued Clients and Consultants.
- Result ? : We create Paradise on the Earth by pouring life into Industrial Growth through Activated Power Systems.
- How Far ? : Till Sun and Moon keep shining on the Earth and our prospective Clients and Consultants keep trust in us.
- What we feel ? : We feel indebted to our esteemed Clients and Consultants all the time, through whom we visualise our capabilities.
- Great ? : We are Great on account of our Great Clients and Great Consultants; who grant us an opportunity to perform Great Tasks !

PROVEN CAPABILITIES



THIS IS THE SECRET OF OUR SUCCESS.

- We, first of all, fully grasp the view points of our clients and associated consultants.
- We never compromise for Quality.
- We constantly think for Client's Satisfaction.

THIS IS ALL THE TIME POSSIBLE BECAUSE

- We have full technical know-how for the Supply.
- We have full fledged man power to despatch the Material in Time.
- We have expertise in co-ordinating the activities of the Consultants, Clients, Government Authorities and other allied agencies for smooth supplies in the projects.
- Our team is fully quality conscious.

THIS IS HOW ?

- We have carried out many prestigious supplies in public and private sector industries of high repute.
- We get repeat orders from our clients by healthy competition.
- We are capable and competent enough to undertake such supplies of any magnitude.
- We are geared to undertake challenging supplies with very short notice on emergency basis.

Achievement (Major Projects)



1. **Jaipuria Brothers Electricals Pvt. Ltd.** is already successfully executed the following.

Sl. No.	Project Name	LOA No.	Year	Amount (₹)	Status
1.	J & K Rail Project	IRCON/ELECT/J&K/74/Line Material/PDD/BNL/12/Vol.II, Dtd - 8/8/2006	2006	98,88,459.41	Completed
2.	J & K Rail Project	IRCON/ELECT/J&K/73/07/, Dtd - 12/1/2004	2004	3,86,83,380.84	Completed
3.	J & K Rail Project	IRCON/ELECT/J&K/73/SLM/P DD/33, Dtd - 4/11/2006 (AMENDMENT NO.1)	2006	3,37,75,301.79	Completed
4.	JDVNL	JDDVVNL/SE/MM&C/JU/EIAII/ TN-313/PO/841/D/1728, Dtd. - 15/6/2005	2005	9,26,00,000.00	Completed
5.	JDVNL	JDDVVNL/SE/MM&C/JU/EIAII TN-312/PO/955/D/, Dtd - 22/6/2005	2005	43,75,000.00	Completed
6.	AVVNL	AVVNL/SE/MM/FBA6/TN-300/Jaipuria/PO/1835/D/108 76, Dtd - 30/12/2005	2005	39,99,990.00	Completed
7.	DHBVN	AIPL/DHVBV/08-09/PD-01/35, Dtd - 19/9/2008	2008	10,18,367.00	Completed
8.	DHBVN	AIPL/DHVBV/08-09/PD-01/16, Dtd - 7/6/2008	2008	30,00,745.00	Completed

2. **Dura Fabs Contractors & Suppliers**, 1787, 1st Floor, Electrical Market, Bhagirath Palace, Chandni Chowk, Delhi - 110006, Construction (Sister concern of Jaipuria Brothers Electricals Pvt. Ltd.) is Trunkey Company, Successfully commissioned 11/33 KV Sub Station and 11/33 KV Crossing for Railway.

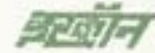
Sl. No.	Project Name	LOA No.	Year	Amount (₹)	Status
1.	Electrical works connected to Gauge Conversion of Rewari Line - Ringus-Phulera-Ajmer Section	IRCON/Elect/Rewari-Ajmer/147, Dtd - 25/2/2001	2011	3,07,70,097.00	Completed
2.	11/33KV/433V Sub-Station at 15 Railway Station on Qazigund - Baramulla Section (J & K)	IRCON/J&K- SGR/1008/14/64/C./03/3 740, Dtd - 08/11/2010	2010	2,66,79,330.00	Completed
3.	2 x 300 MW Butbori Thermal Power Station	VIPL-GCPP-MES-324-A-002/5, YARD Lighting	2011	1,60,00,000.00	In Progress

प्रगति की ओर अग्रसर
Urge to stay Ahead



इरकॉन इंटरनेशनल लिमिटेड

शिपिंग, मैकेनिकल, इलेक्ट्रिकल, कम्युनिकेशन और टर्नकी कंस्ट्रक्शन
(भारत सरकार का उपक्रम)



IRCON INTERNATIONAL LIMITED

Civic, mechanical, Electrical, Communications and Turnkey Contractors
(A Govt. of India Undertaking)

Ref.No.IRCON/ELECT/GENL/69

Dt. 08.11.2006

TO WHOMSOEVER IT MAY CONCERN

SUB: PERFORMANCE CERTIFICATE OF
M/s. JAIPURIA BROTHERS ELECTRICALS (P) LIMITED, DELHI-6
REF: L.O.A.NO.IRCON/J&K-SGR/1008/14/77/5321 DT.13.08.04

It is to certify that M/s. Jaipuria Brothers, 1820, Electrical Market, Bhagrath Palace, Delhi - 110 006 have executed the work of "Design, Fabrication & Supply of various pole structures with poles, isolators, lightning arrestors, insulators and small parts steel etc for shifting of electrical crossing between Qazigund-Baramulla Section of J&K Rail Project".

The details of Order are as under:

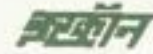
SL NO	DESCRIPTION	DETAILS
1.	Name of work	Design, Fabrication & Supply of various pole structures with poles, isolators, lightning arrestors, insulators and small parts steel etc for shifting of electrical crossings between Qazigund-Baramulla Section (J&K Rail Project)
2.	LOA No.	IRCON/ELECT/J&K/73/07
3.	Date of Award	12.01.2004
4.	Date of Amendment	13.08.2004 (For increase in Quantity)
5.	Original Contract Value	Rs.3,85,83,380.84
6.	Contractual Completion Period	22.04.2004
7.	Actual Completion Period	11.11.2004 (Revised Date of Completion)
8.	Actual value of Executed order	Rs.4,19,53,439.84
9.	Performance	The firm has executed the above work satisfactorily.

We wish them all success in future Contracts.

(R.K. CHAUDHARY)
GENERAL MANAGER (ELECT.) - II

D:\RkChaudhary\PERFORMANCE CERTIFICATES\Jaipuria Brothers.doc

रजि. कार्यालय : पतिका भवन, सेक्टर - 13, आर.के. पुरम, नई दिल्ली - 110006, भारत
Regd. Office : Patika Bhawan, Sector-13, R.K. Puram, New Delhi-11006, INDIA
TEL : +91-011-26889361-63, 26889275-76 FAX : 91-011-26885165, 26873013
E-MAIL : info@irconnet.com



IRCON INTERNATIONAL LIMITED

Civil, Mechanical, Electrical, Communications and Turnkey Contractors
(A Govt. of India Undertaking)
Ministry of Railway
C-4, District Center, Saket, New Delhi - 110 017, India

Ref.No.IRCON/ELECT/REWARI-AJMER/147

Dt. 26.02.2011

M/s Dura Fabs Contractors & Suppliers
1787, IInd Floor Electrical Market
Bhagirath Palace, Delhi - 110006
Fax : 011-2386240

SUB: Electrical Works Connected To Gauge Conversion of Rewari Line - Ringus - Phulera-
Ajmer Section - Completion Certificate

REF: 1. L.O.A. NO.IRCON/ELECT/Rewari-Ajmer, dtd. 11.05.2006
2. Your Letter dated 03.01.2011

Dear Sir,

As desired by you, the details regarding above ref. L.O.A. is given below -

SL NO.	Name of Agency	M/s DURA FABS Contractors & Suppliers, 1787, IInd Floor Electrical Market, Bhagirath Place, Delhi - 110006
1	Name of Work	Electrical Work Connected to Gauge Conversion of Rewari Line-Ringus-Phulera-Ajmer Section
2	Agreement/LOA No. & Date	IRCON/Elect/Rewari-Ajmer & 11.02.2006
3	Allotted Cost of Work	Rs. 3,07,70,097/-
4	Revised Cost of Work	Rs. 1,99,76,152/-
5	Work done Payment made up to date 25.02.2011	Rs. 1,87,88,974/- as RA Bill No. 6 dated 10.12.10
6	Whether the work is completed or in Progress	1. Modification of HT/LT power line crossing work has been completed & CRS Inspection has been done. 2. Ringus Substation work is completed but EIG approval is under process.
7	Performance of Work	Satisfactory

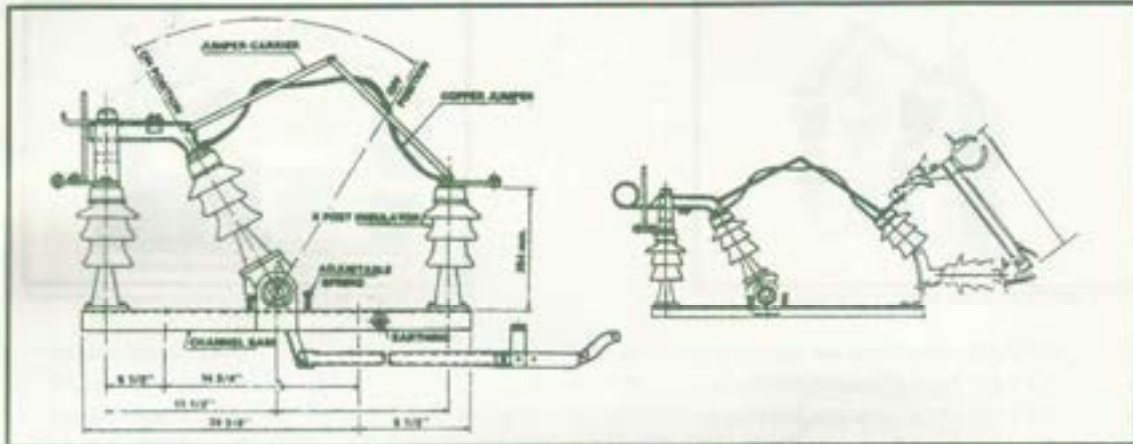
Your's Sincerely

Subhash Chand)
General Manager/Electrical

Regd. & Corporate Office : C-4, District Center, SAKET, New Delhi - 110 017
Phone : PABX - 29555666, 29555643, FAX : 011 - 26522000, 26544000

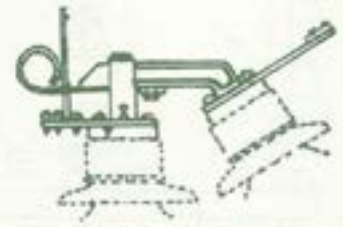


JAIPURIA BROTHERS ELECTRICALS PVT. LTD. MAKE AIR BREAK ISOLATING SWITCH



Jaipuria Brothers Electricals Pvt. Ltd. make Gang operated Air break off load, disconnecting switch. Triple pole, each pole consists of Galvanized Steel base, H.T. insulators as per B.S.S./I. S. non-ferrous knife and spring loaded contacts, arcing horns of adequate section to break magnetizing current of the transformers horizontal G.I. Pipe of adequate length for phase separation, adequate length of G.I. Pipes for operation from ground level and operating handle complete in both OFF and ON position. All ferrous parts hot dipped galvanized and non ferrous parts heavily tinned to withstand weather. Manufactured generally in accordance with I.S.S. Suitable for horizontal/Vertical mounting.

Type (Porcelain / Polymer)	Rocking Tilting Type	Rotating Type
1. 11 KV 200 Amps 3 Insulator	Rs. 25000/- per set	Rs. 30000/- per set
2. 11 KV 200 Amps 2 Insulator	Rs. 20000/- per set	Rs. 24000/- per set
3. 11 KV 400 Amps 3 Insulator	Rs. 27000/- per set	Rs. 32000/- per set
4. 11 KV 630 Amps 3 Insulator	Rs. 30000/- per set	
5. 11 KV 200 Amps 3 Insulator Rocking type Air Break Switch With Single Action make and break (Horizontal Type).	Rs. 30000/- per set	
6. 11 KV 400 Amps 3 Insulator Rocking type Air Breaks Switch With Single Action make and break "Horizontal Type"	Rs. 32000/- per set	
7. 11 KV 200 Amps Air Break Switch With Dropout Fuse Set 12 Insulators	Rs. 30000/- per set	
8. 11 KV 400 Amps Air Break Switch With Dropout Fuse Set Insulators	Rs. 32000/- per set	
9. 11 KV Switch fuse unit 9 Insulator with Lighting Arrestors.	Rs. 46000/- per set	



FIX - CONTACTS & MOVING - CONTACTS WITH BARREL FOR D.O. FUSE

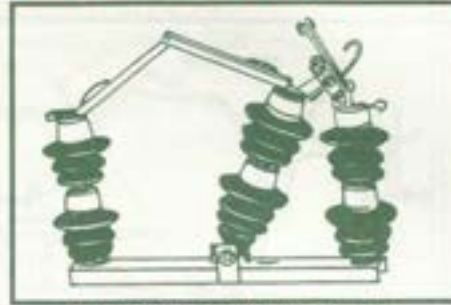
Spare for Switches : Price Per Phase	11 KV	22 KV	33KV
a. Male contact/moving Contact Blade	Rs. 1200/-	Rs. 1900/-	Rs. 2500/-
b. Female contact/Fix Contact Jaw.	Rs. 1500/-	Rs. 2300/-	Rs. 3100/-
c. Tinned copper Flexible jumper 200A/400A	Rs. 1000/-	Rs. 1350/-	Rs. 1550/-
d. MS jumper carrier	Rs. 650/-	Rs. 975/-	Rs. 1050/-
e. Back Connector plate.	Rs. 600/-	Rs. 825/-	Rs. 800/-



JAIPURIA BROTHERS ELECTRICALS PVT. LTD. MAKE AIR BREAK ISOLATING SWITCH



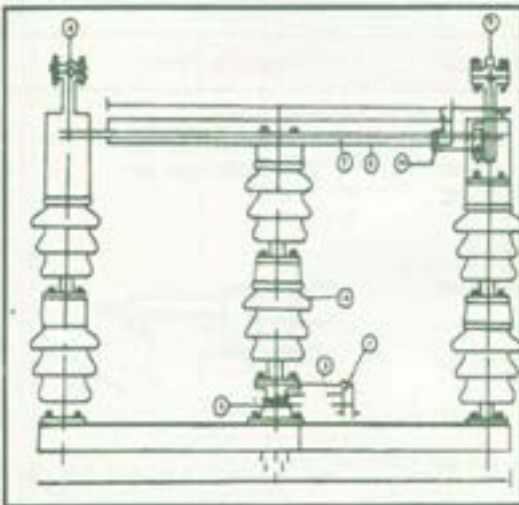
22 KV Double Stack Type Switch (Porcelain / Polymer)



33 KV Double Stack Type Switch

- | | | |
|-----|--|----------------------|
| 7. | 22 KV 200 Amps 3 insulator Verticle type DOUBLE STACK type | ₹ Rs.35000/- per set |
| 8. | 22 KV 400 Amps 3 insulator Verticle type DOUBLE STACK type | ₹ Rs.38000/- per set |
| 9. | 22 KV 200 Amps 3 insulator Rocking type DOUBLE STACK type | ₹ Rs.43000/- per set |
| 10. | 22 KV 400 Amps 3 insulator Rocking type DOUBLE STACK type | ₹ Rs.45000/- per set |
| 11. | 33 KV 200 Amps 3 insulator Verticle type DOUBLE STACK type | ₹ Rs.31500/- per set |
| 12. | 33 KV 400 Amps 3 insulator Verticle type DOUBLE STACK type | ₹ Rs.54000/- per set |

ROTATING TYPE SWITCHES



- | | | |
|-----|---|-----------------------|
| 1. | E.C. Copper Contact Element | 1-1/4 x 1/8" |
| 2. | M.S. Flat "U" | 50 x 6 mm |
| 3. | E.C. Copper Flat Terminal (Bent at 110) | 1-1/2" x 1/4" |
| 4. | Aluminium Connector see Drg. No. | 454/79 |
| 5. | M.S. Flat "L" | 100 x 6 mm |
| 6. | M.S. Angle | 40 x 40 x 6 mm |
| 7. | E.C. Copper Blade | 1-1/2"x1/4"x40-1/2" |
| 8. | Bearing Assly. see drg. No. | 451/79 |
| 9. | M.S. Flat | 100 x 6 mm x 10" Long |
| 10. | M.S. Angle Stop | 400 x 40 x 60 mm Size |
| 11. | M.S. Channel | 100 x 50 |
| 12. | 22 KV Post Insulator Like HTIF | 3031 |

**Rotating Type Switch (Price Per Set)
(Porcelain / Polymer)**

	22KV	33KV	
13.	400 Amp. Horizontal Mounting	Rs.40000/-	Rs.60000/-
14.	400 Amp. / 600 Amp. Horizontal Mounting	Rs.45000/-	Rs.65000/-
15.	600 Amp. / 12000 Amp With Earth Switch	Rs.53000/-	Rs.70000/-

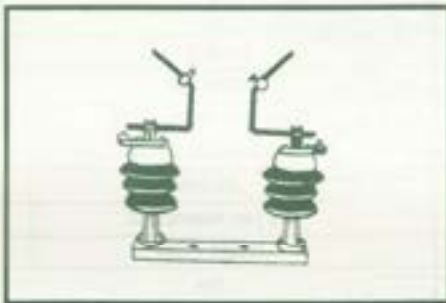


"JAIPURIA BROTHERS ELECTRICALS PVT. LTD." MAKE DROPOUT FUSES



(Porcelain / Polymer)

- | | | |
|-----|--|-----------------------|
| 16. | 11 KV DROPOUT Fuse 'D' type | © Rs. 17000/- per set |
| 17. | 11 KV DROPOUT Fuse CHANNEL type | © Rs. 17000/- per set |
| 18. | 22 KV DROPOUT Fuse DOUBLE STACK CHANNEL type | © Rs. 32000/- per set |
| 19. | 22 KV DROPOUT Fuse DOUBLE STACK 'D' type | © Rs. 40000/- per set |
| 20. | 33 KV DROPOUT Fuse DOUBLE STACK CHANNEL type | © Rs. 45000/- per set |



**JAIPURIA BROTHERS ELECTRICAL PVT. LTD.
MAKE HORN GAP FUSE
(Porcelain / Polymer)**

- | | | |
|-----|---------------------|-----------------------|
| 21. | 11 KV HORN Gap Fuse | © Rs. 17000/- per set |
| 22. | 22 KV HORN Gap Fuse | © Rs. 20000/- per set |
| 23. | 33 KV HORN Gap Fuse | © Rs. 35700/- per set |

Spare For Dropout Fuses

	11 KV	22KV	33KV	
1.	SRBP tube Only	Rs. 150/-	Rs. 175/-	Rs. 325/-
2.	Fibre Glass tube only	Rs. 325/-	Rs. 425/-	Rs. 525/-
3.	Fibre tube with Metal fitting on both ends	Rs. 900/-	Rs. 1200/-	Rs. 1700/-
4.	Fix Top Contact / L Contact	Rs. 1300/-	Rs. 1700/-	Rs. 2000/-
5.	Fix Bottom Contact	Rs 1300/-	Rs 1700/-	Rs 2000/-

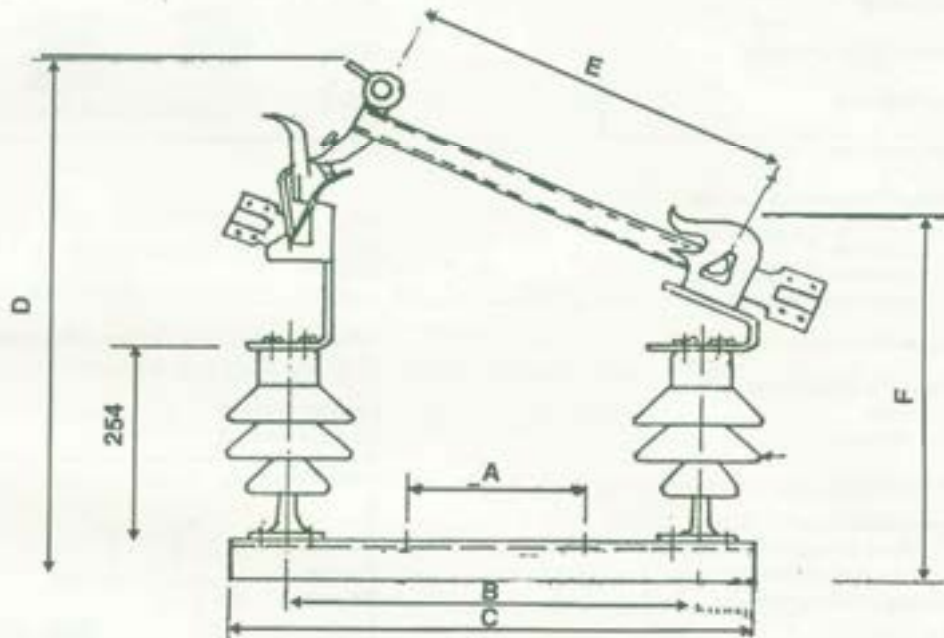


GUARANTEED TECHNICAL PARTICULARS FOR 11 KV DROP OUT FUSE

S. No.	Particulars	Technical Particulars
1	Manufacturer's type / Designation / Installation	JBEPL
2	Manufacturer's name and country of manufacture	Jaipuria Brothers Electricals Pvt. Ltd., Delhi
3	Standard (s) according to which the relevant standard	IS 9385 / (Part I/II)
4	Operating voltage	11 KV
5	Rated voltage	12 KV
6	Continuous current	200 Amp
7	Type of counting	As per drawing to be approved
8	Rated frequency	50 Hz
9	Insulation levels	As per relevant IS
10.1	One minute Power frequency withstand across isolating distance of fuse base	32 KV
10.2	One minute Power frequency withstand voltage to earth and between poles	28 KV
10.3	Standard Impulse withstand (1.2 / 50 micro seconds) to earth and between poles (peak)	85 KV
10.4	Standard Impulse voltage across isolating distance of fuse base	75 KV
11	Temperature rise limit (for copper contacts)(deg. C)	25 deg. C
12	Temperature rise for terminals in (deg. C)	40 deg. C
13	Type of fuse / rating	Expulsion type, 1.5 A
14	Material of fuse barrel	Fibre glass tube 25 mm OD
15	Fuse tube ID	15 mm
16	Rated breaking capacity	As per relevant IS
17	Fuse base top current carrying part	Brass / GM
18	Environmental protection of current carrying part	NA
19	Fuse base bottom assembly	Brass / GM
20	Fuse carrier top assembly	Brass / GM
21	Fuse Carrier bottom assembly	As per drawing to be approved
22	Material of spring	Phosphor Bronze / SS
23	Material of contacts (incoming)	Copper / Glass / Bronze / GM
24	Details of terminal connections (outgoing)	Aluminium connector for ACSR Dog conductor
25	Anticorrosive Property (Fe parts)	Hot dip Galvanized electroplated
26	Anticorrosive Property (non-ferrous parts)	Silver / tin plated
27	Applicable standard	IS 9385 / (Part I/II)
28	Insulator 12 KV post type	Porcelain / Polymer



jaipuria brothers
Electricals Pvt. Ltd.



DIMENSIONS					
A	B	C	D	E	F
220	350	460	525	330	400

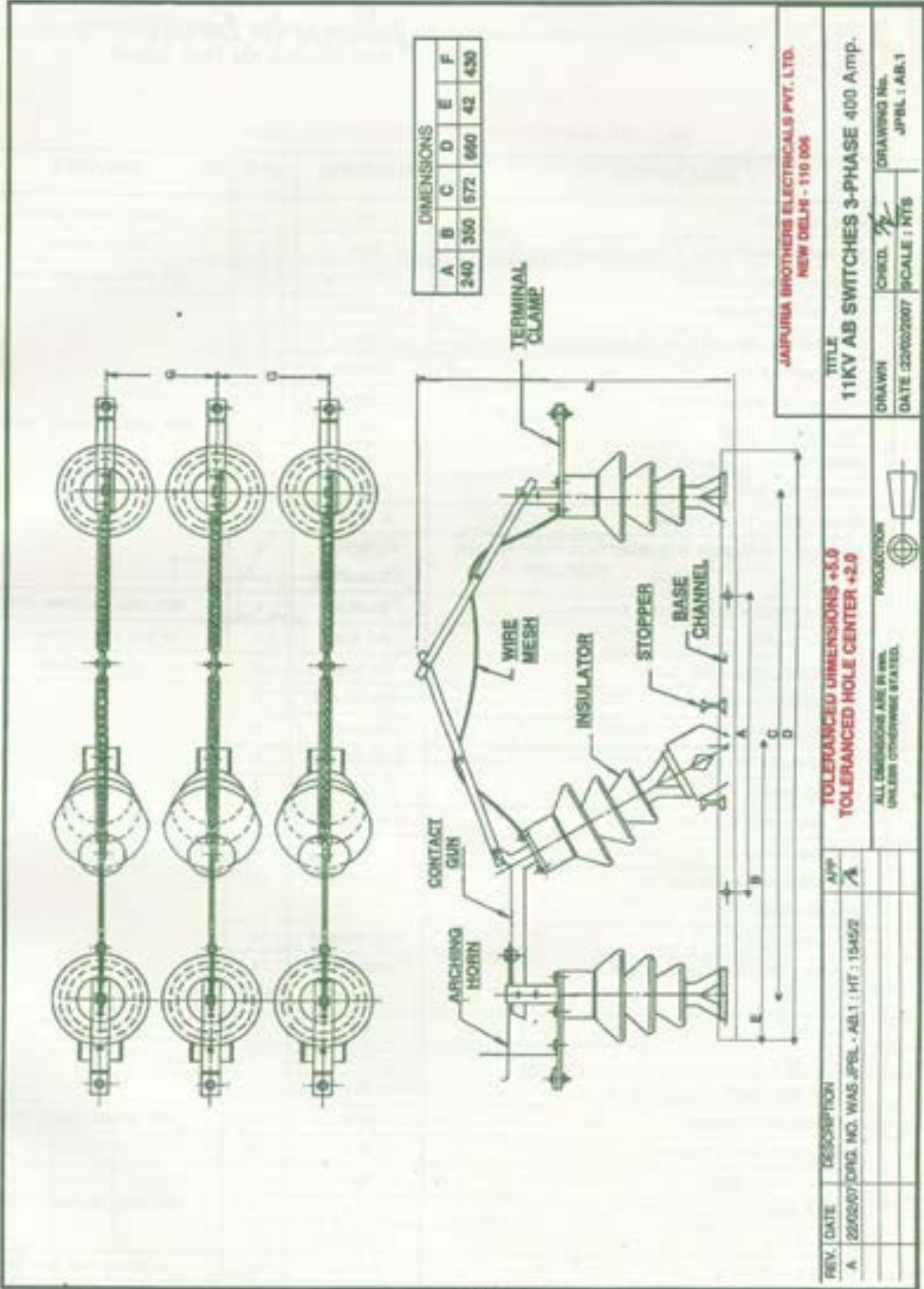
UNTOLERANCED DIMENSIONS		5.0	PROJ.	JAIPURIA BROTHERS ELECTRICAL PVT. LTD. NEW DELHI - 110 006	
UNTOLERANCED HOLE CENTRES		3.0			
REV	DATE	DESCRIPTION	APP	DELHI - JAMMU	
A	26/10/95	DRG. NO. JBEPL 11001			
TITLE				11 KV, 3-Phase 200 Amp.	
ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE STATED				DROP-OUT FUSE	
DRAWN	CHK & APP	DRAWING NO.	REV.		
DATE 2/10/03	ISCALYNT.S.	JBEPL-11001	A		



11 KV AIR BREAK SWITCH

1.	Make	:	Jaipuria Brothers Electricals Pvt. Ltd.
2.	Type of Isolator	:	Single Break
3.	Rated Voltage	:	11 KV
4.	Maximum System Voltage	:	12 KV
5.	Rated frequency	:	50 C/S
6.	Continuous Current Rating	:	400 Amp.
7.	Maximum Temperature rise over	:	
	(i) Contacts	:	35°C
	(ii) Terminals	:	50°C
	(iii) All other current carrying parts (With Tin Plating)*	:	50°C
8.	Short Circuit Current	:	16 KA Arm for one second with initial peak of 40 KA
9.	Material of Main contacts	:	
	(i) Fixed	:	Cu. Alloy (Tinned)
	(ii) Moving	:	Cu. Alloy (Tinned)
10.	Loading arrangement	:	Vertical Mounting
11.	Clearances Between	:	
	(i) Poles (Phase centre distance)	:	400 mm
	(ii) Live parts and Earth	:	254 mm
	(iii) For Isolating distance	:	350 mm
12.	Length of operating handle	:	1600 mm
13.	Weight of 3 pole Isolator	:	100 Kg approx.
14.	11 KV Post Insulators of following Characteristics :	:	
	(i) Creepage distance of each Unit : Total	:	330 mm
	Protected	:	254 mm
	(ii) Dry 1 min. power fre. withstand Voltage	:	65 KV
	(iii) Wet 1 min. power fre. withstand Voltage	:	40 KV
	(iv) Dry 1 min. power fre. flashover Voltage	:	70 KV
	(v) Wet 1 min. power fre. flashover Voltage	:	45 KV

Silver Plating can also be provided
GO/DO Combined unit can also be provided



DIMENSIONS					
A	B	C	D	E	F
240	300	572	660	42	430

JAPJURIA BROTHERS ELECTRICALS PVT. LTD.
NEW DELHI - 110 006

TITLE
11KV AB SWITCHES 3-PHASE 400 Amp.

DRAWN: [Signature] CHECKED: [Signature] DRAWING No. JPBL: AB.1
DATE 22/02/2007 SCALE: 1: NTS

TOLERANCED DIMENSIONS +0.9
TOLERANCED HOLE CENTER +2.0

REV.	DATE	DESCRIPTION	APP.
A	22/02/2007	DRG. NO. WAS JPBL - AB.1 : HT : 1945/2	[Signature]

ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

PROJECTOR

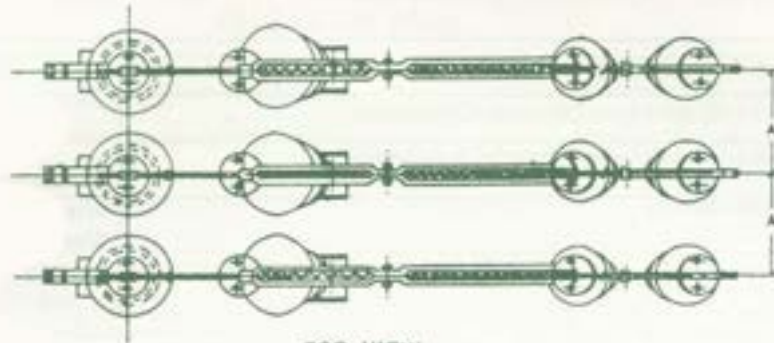


BILL OF MATERIAL OF GODO COMBINED

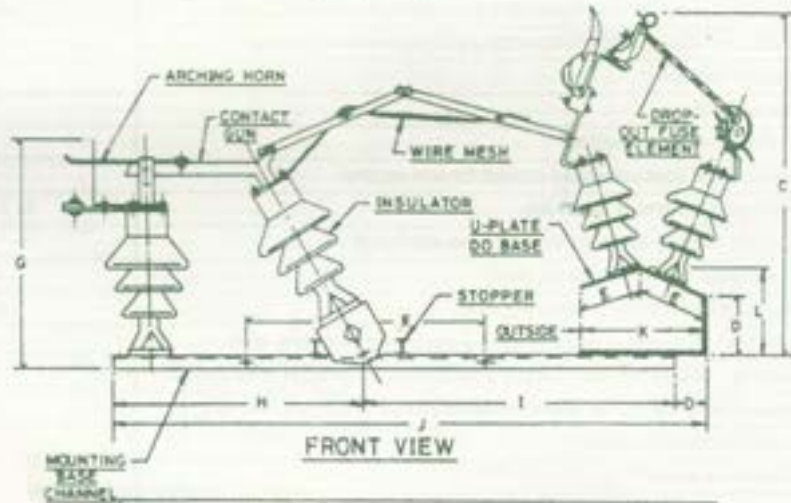
SL NO.	DESCRIPTION	MATERIAL	QTY	REMARKS	
1	BASE CHANNEL	M.S.	3	75X40X1100mm LONG	
2	PLE BASE CHANNEL	M.S.	3	NOT IN SCOPE	
3	11 KV POST INSULATOR	PORCELEN	3	REF. DRG. JB-JDWNL-SF05	
4	G. O. FIXED CONTACT	COPPER	3	REF. DRG. JB-JDWNL - SF02	
5	G.O. MOVING CONTACT	COPPER	3		
6	TERMINAL PAD	COPPER	3		
7	FLEXIBLE CU BRANDED TAPE	COPPER	3		
8	M.S. SUPPORT STRIP	M.S.	3		
9	ARCING HORN	M.S.	6		
10	CONNECTOR FLAT	COPPER	3		
11	SPRING WITH TEFLON INSERT	S. STEEL	12		
12	TERMINAL CONNECTOR WITH BIMETTALIC STRIP 1mm THK.	ALUMINIUM DIE CASTED	6		
13	ROCKER SYSTEM WITH NYLONE BUSHES	G.I./M.S.	4		REF. DRG. JB-JDWNL-SF03
14	PHASE COUPLER ROD	G.I. M.S.	1		25 mm. Sq X 1.75mtr. LG
15	OPERATING PIPE (5-MTR. LONG)	G.I. M.S.	1		25 NB, B-CLASS
16	FUSE CARRIER TUBE	FIBER GLASS	3	REF. DRG. JB-JDWNL - SF02	
17	D.O. MALE CONTACT	G.M./BRASS	3		
18	D.O. FEMALE CONTACT	G.M. / BRASS	3		
19	FUSE ELEMENT		5		
20	D.O. JAW (HINGE SUPPORT)	G.M. / BRASS	3		
21	D.O. JAW FIXING PLATE	M. S.	3		
22	D.O. HINGE ARRANGEMENT FOR ERP TUBE	G.M/BRASS	3		
23	D.O. HOOK	G.M. / BRASS	3		
24	CONTACT PRESSURE LEAF STRIPS	PHOSPHER BRONZE	6 SETS		
25	HANDLE	M.S.	1	NOT IN SCOPE	
26	PIPE GUIDE	M.S.	1		
27	OPERATING LEVER	M.S.	1		
28	LOCKING ARRANGEMENT	M.S.	1	REF. DRG. JB-JDWNL-SF05	
29	OPERATING HANDLE ON/OFF	M.S.	1	REF. DRG. JB-JDWNL - SF02	
30	EARTHING TERMINAL	M.S.	3		
31	BASE CHANNEL FIXING BOLT	M.S.	6		
32	NAME PLATE	ALUMINIUM	3		
33	BOLTS & NUTS MISC	M.S. AS	REQ.	ELECTRO ZINC PLATED	



jaipuria brothers
Electricals Pvt. Ltd.



TOP VIEW



FRONT VIEW

DIMENSIONS											
A	C	D	E	F	G	H	I	J	K	L	
400	770	80	110	380	500	360	420	760	155	160	

UNTOLERANCED DIMENSIONS 5.0		UNTOLERANCED HOLE CENTRES 2.0		 Jaipuria Brothers Electricals Pvt. Ltd. NEW DELHI-110006	
REV	DATE	DESCRIPTION	APP		
A	18/9/98	11 KV 4000 COMBINED		TITLE 11 KV, 3-Phase OUTDOOR GO / DO COMBINED ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE STATED DRAWN CHRD DRAWING NO. DATE 28/10/98 SCALE N.T.S. JB 1005 A	



GUARANTEED TECHNICAL PARTICULARS FOR 11 KV SWITCH AIR BREAK TYPE WITH POST INSULATORS

S.No.	Particulars	For 11 KV
1	Manufacturer's type / Designation / Installation	11 KV 200 A, Tilting type
2a)	Manufacturer's name and country of manufacture	M/s. Jaipuria Brothers Electricals Pvt. Ltd., Delhi
b)	Works address	F-16-17, Ganga Vihar, Gokul Puri, Shahdara Delhi
3	Standard (s) according to which the isolators are manufactured	IS 9921 / Part I to V
4	Maximum design voltage at which the isolators can operate	12 KV
5	Rated Frequency	50 Hz.
6	Rated Voltage	12 KV
7	Continuous current rating	200 A
8	Rated short time withstand current for one second	
9	Voltage drop across terminals	As per relevant IS
10	Current density at the minimum cross section of :	
a)	For copper parts (Amp. / sq. mm)	Less than 2.5
b)	For aluminium parts (Amp. / sq. mm)	Less than 1.0
11	Maximum temperature rise of following current carrying parts when carrying rated current continuously (deg. C) over an ambient of 50 deg. C instead of 40 deg. C mentioned in relevant IS	25°C
12	Class (outdoor or indoor)	Outdoor
13	Insulation levels :	
i)	Impulse withstand voltage (KV peak)	
a)	Across the isolating distance	85 KV
b)	Phase to earth	75 KV
ii)	Power frequency withstand voltage (K V rms)	
a)	Phase to earth	28 KV
b)	Across the isolating distance	32 KV
14	Minimum clearance in air (mm) center to centre between phase to phase	600 mm
15	Minimum distance between insulators	as per drawing to be approved
16	Minimum Isolating distance (in open position)	375 mm
17	Design & Construction :	
i)	Number of insulators per pole.	3 nos.
ii)	Number of breaks Per pole.	Single
iii)	Type of closing / opening mechanism	Vertical
18	Height of contacts	110 mm

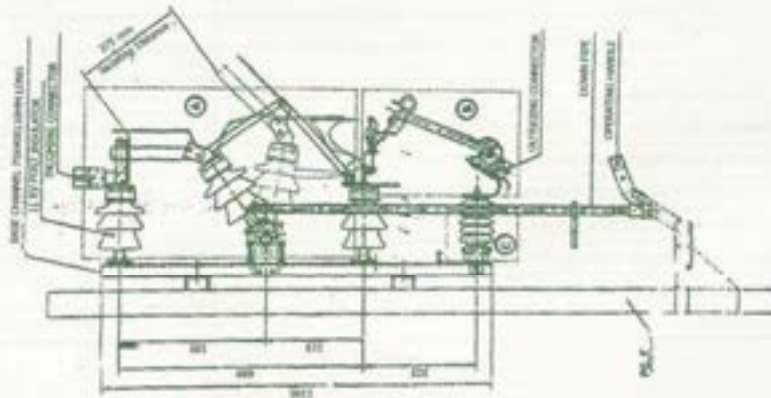
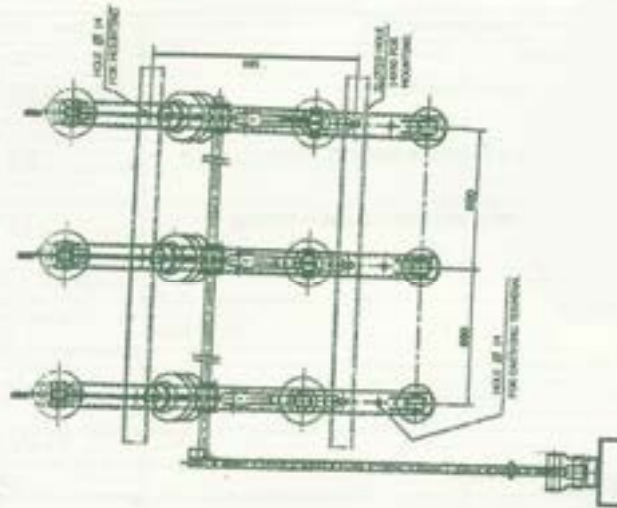


GUARANTEED TECHNICAL PARTICULARS FOR 11 KV SWITCH AIR BREAK TYPE WITH POST INSULATORS

19	Cross section and number of fixed contact leafs	2 nos., 38 mm x 3.0 mm thick
20	Cross section of moving blade	32 mm x 5 mm
21	Size and numbers of spring used in fixed contact	4 nos, 16 SWG, 28 mm long, 15mm OD & 6 turns
22	All Current carrying copper parts should be suitable to have current density less than	2.5 A / sq. mm.
23	All current carrying aluminium parts should be suitable to have current density less than	1.0 A / sq. mm.
24	Operating pipe (handle & rod)	25 mm NB, 5.0 meter long med. class
25	Type of bearings	Rocking type lever supported on side plates with self lubricated nylon rings
26	Base channels	75 mm x 10 mm x 100 mm long
27	Post Insulators :	
a)	Type	11 KV, E - 22, IS 2544
b)	Name of manufactures	JBEPL, Delhi
c)	Height of each insulator	254 mm
d)	Tensile strength (Kg)	20 KN
e)	Compressive strength	40 KN
f)	Torsional strength in (Kg. m.)	340 MN
g)	Cantilever strength upright	9 KN
h)	Power frequency dry flash over voltage (KV) rms	As per relevant IS
i)	Power frequency wet flash over voltage (KV) rms	As per relevant IS
j)	Impulse flash over voltage (positive wave) (KV) peak	As per relevant IS
k)	Impulse with stand voltage (KV) peak	75
l)	Power frequency puncture voltage (KV) rms	As per relevant IS
m)	Visible discharge voltage level (KV) rms	9
n)	Creepage distance	300 mm (min.)



11 KV ISOLATOR (DOUBLE BREAK) LIGHTNING ARRESTERS



ITEM		GENERAL ARRANGEMENT OF 11 KV SWITCH FUSE UNIT (FOR TRANSFORMER PROTECTION)					DELHI - JAMMU
(A)	G. O. SWITCH	DRAWN BY.	CHKD. BY	APPO. BY	SCALE	DATE	DRAWING No.
(B)	D. O. FUSE						
(C)							



GUARANTEED TECHNICAL PARTICULARS FOR 12 KV LIGHTNING ARRESTERS

S. No.	Particulars	Technical Particulars
1	Name of manufacturer.	M/s. Jaipuria Brothers Electricals Pvt. Ltd., Delhi
2	Arrester class & type	Distribution class MMD-12 Single phase
3	Applicable standard	IEC 60099-4-2001
4	Rated arrester voltage	12 KV
5	Rated frequency	50 Hz
6	Max. Continuous operating voltage (MCOV)	10 KV rms
7	Nominal Discharge current with 8 / 20 micro second wave	10 KA peak
8	Line discharge class	Distribution class
9	Ratio of switching impulse residual voltage to rated voltage of arrester	2.5
10	Minimum energy discharge capability	1 KJ / KV
11	Max. switching current impulse residual voltage at	
i)	1000 Amps.	NA
ii)	250 Amps.	30.9
iii)	125 Amps.	29.6
12	Maximum residual voltage with one micro second current wave at	
i)	10 KA	41 KV peak
ii)	5 KA	38 KV peak
13	Max. residual voltage with 8/20 (KV peak) micro second wave.	
i)	1.5 KA	NA
ii)	5 KA	38 KV peak
iii)	10 KA	41 KV peak
iv)	20 KA	52 KV peak
14	Fault current for one sec. at arrester location	40 KA rms
15	Lightning impulse withstand voltage of arrester housing with 1.2/50 micro second wave	75 KV peak
16	One minuter power frequency withstand voltage of arrester housing (dry/wet) (KV rms)	28 KV rms
17	Partial discharge (pc) at 1.05 times MCOV	Less than 50 pc
18	High current short duration impulse with stand level with 4 / 10 micro second wave	85 KV peak
19	Pressure relief current (KA rms)	With disconnector
20	Over voltage withstand capability - KV	
a)	100 seconds.	12.9 KV
b)	10 seconds.	12.9 KV



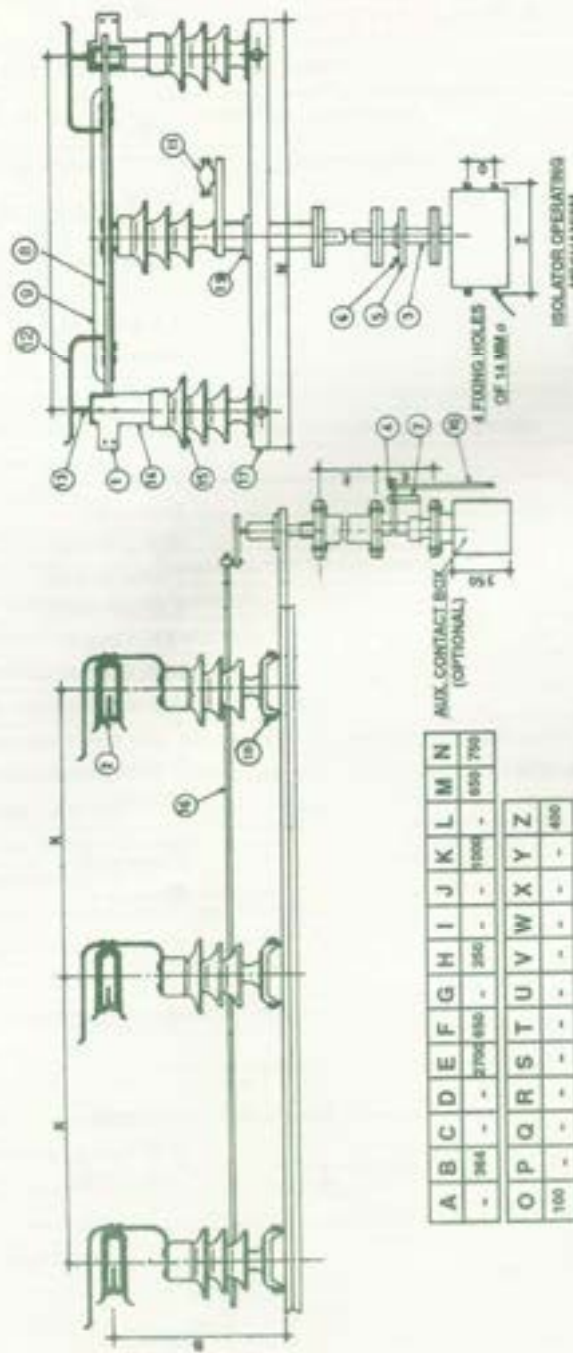
GUARANTEED TECHNICAL PARTICULARS FOR 12 KV LIGHTNING ARRESTERS

c)	1 seconds.	13.5 KV
d)	0.1 seconds.	14.1 KV
21a)	Reference voltage	12 KV rms
b)	Reference current	1MA
22a)	Numbers of unit per phase and rating of each unit	Single
b)	Unit rating of non linear resistors	12 KV rms
c)	Numbers of non linear resistors per unit	3.5
d)	Dimensions of nonlinear resistors disk (height & dia.)	33 mm x 41 mm
23	Assembling position of the unit (for multiunit arresters)	NA
24	Minimum total creepage distance (mm)	300 mm
25	Leakage current (mA)	1mA
26	Total weight of arrester	4.2 Kg. (apprx.)
27	Maximum cantilever strength of arrester (including wind load)	5 KN
28	Overall height of surge arrester (mm)	388 mm
29	Maximum distance recommended from equipment be protected by surge arrester (mm)	As per drawing to be approved
30	Minimum distance between grounded object (mm)	As per drawing to be approved
31	Minimum distance between arrester phase legs (mm)	As per drawing to be approved
32	Type of arrester housing (porcelain)	Hollow porcelain



11 KV ISOLATOR (DOUBLE BREAK)

1. Make of Isolator	:	JBEPL
2. Rated Current	:	400/630/800/1250 A
3. Nominal System voltage	:	11 KV
4. Highest System Voltage	:	12 KV
5. Short time Current Rating	:	16KA/1Sec.
6. Three phase capacitive and inductive current breaking capacity at rated service voltage.	:	1.5 A and 3A respectively.
7. Construction Data :		
a) No. of break per circuit per pole	:	Two (2)
b) No. of insulating pedestals per phase	:	Three (3)
c) Type of contact	:	High pressure
d) Type of bearing for rotating Insulator	:	Thrust bearing & Brass brush
e) Metal for rotating blade	:	HDE Copper.
f) Material for fixed contact	:	HDE Copper.
8. Minimum clearance air :		
a) Between poles	:	2000 mm.
b) Between live parts and Earth	:	720 mm.
9. Mode of operation	:	Motorised /Manual
10. Earthing Devices (optional)		
a) Normal current carrying capacity	:	* /400 A
b) Short time Current rating	:	13 . 1 KA/3 Sec
11. Loading arrangements	:	Horizontal upright
12. Auxiliary contacts (optional)	:	* /2NO+2NC
13. Maximum temperature rise at ambient temperature of 45C be conformed NOT to exceed the following :		
a) Copper contacts /Base or Tinned	:	35°C
b) Copper contacts with Silver plating	:	65°C
c) Terminals of Isolators	:	65°C



S. No.	NAME OF THE PART	MATERIAL	S. No.	NAME OF THE PART	MATERIAL	S. No.	NAME OF THE PART	MATERIAL
1	CABLE TERMINAL	AL FLATE 60x10 mm	8	MOVING CONTACT	RED CU FLATE 40x10mm	15	INSULATOR	11 KV POST
2	FIXED CONTACT (FC)	RED CU FLATE 200x2 mm ø 1 No	9	MOVING ARM FOR FILING	M5 ANGLE 30x30x3mm	16	PHASE COUPLER	G.I PIPE 18 mm ø
3	OPERATING PIPE	G.I PIPE 32 mm ø	10	OPERATING HANDLE	G.I PIPE 32 mm ø	17	ISOLATOR BASE	M.S. CHANNEL 75x40x5
4	LOCKING HOUSING	M.S. FABRICATED	11	PHASE COUPLER CLAMP	M.S. FABRICATED	18	EARTHING STUD	M.S. BOLT M 12
5	OPERATING BASE	M.S. ANGLE 30x30	12	MOVING ARCHING HORN	G.I ROD 8 mm ø	19	BEARING HOUSING	BRASS BUSH & THRUOUT BEARING
6	SAFETY STOPPER	M.S. SQ ROD 25 mm ø	13	FIXED ARCHING HORN	G.I ROD 8 mm ø			
7	LOCK	STD PHO LOCK WITH KEY	14	EC HOUSING	M.S. FABRICATED			

REV	DATE	DESCRIPTION	APP	TITLE
A	17/10/92	DRAWING NO. WAS JB 1105 A	APR	G.A. OF 11 KV. 450 Amp MANUAL OPERATED D.B. ISOLATOR WITH EARTH SW
				DRN
				DATE 27/10/94 SCALE JB1105 A



14. 11 KV Post Insulators shall be fitted and each insulator conforms to the following specifications :

i) Make	: *
ii) No. of units per insulator stack	: 1
iii) PCD.	: 57 mm.
iv) Maximum shed diameter	: 79 mm.
v) Minimum total creepage distance	: 330 mm.
vi) Overall height of the insulator	: 254 mm.
vii) Highest system voltage	: 12 KV
viii) Tensile strength	: 2050 Kg.
ix) Torsional strength	: 30 m Kg.
x) Compressive strength	: 3600 Kg.
xi) Flash over voltage (Dry)	: 70 KV
xii) Flash over voltage (Wet)	: 45 KV
xiii) Dry one minute power frequency withstand voltage	: 65 KV
xiv) Wet one minute power frequency withstand voltage	: 40 KV
xv) Weight of the insulator	: 4.2 Kg.
xvi) 1.2/50 micro second wave impulse voltage	: 90 KV

15. Types of interlock (optional)

- a: Castle lock
- b: Elect. lock
- c: Mech. lock

16. Auxiliary switches

: * /2NO+2NC

17. Standard length of operating handle below isolator chassis.

: 3 Meter

18. Total weight of one complete tripple pole isolator switch.

: 90 Kg. (approx.)

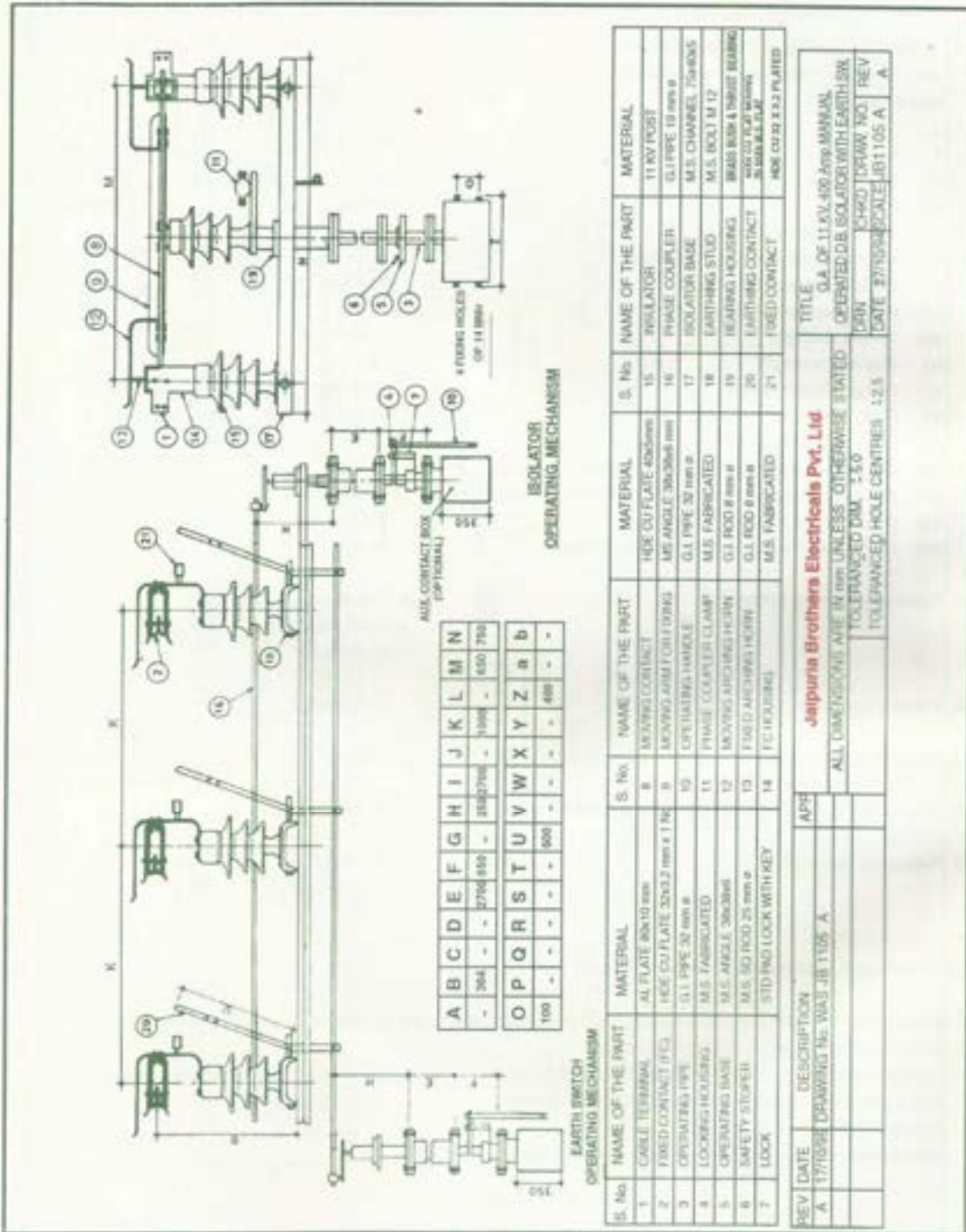
19. Reference standard

: IS : 9921

CONTACT SYSTEM

Is sturdy enough to withstand of following stresses :

1. Electrodynamic withstand ability during Short circuit without any risk of repulsion/conversion of contacts.
2. Thermal withstand ability during Short circuit.
3. Constant contact pressure even when live parts of insulator unity stacks are subjected to tensile stresses due to liner expansion of temperature variation or strong winds.
4. Wiping action during closing and opening.
5. Self alignment assuring closing of switch without minute adjustment.



S. No.	NAME OF THE PART	MATERIAL	S. No.	NAME OF THE PART	MATERIAL	S. No.	NAME OF THE PART	MATERIAL	S. No.	NAME OF THE PART	MATERIAL
1	CABLE TERMINAL	AL PLATE 80x10 mm	8	MOVING CONTACT	HRC DUFFLATE 40x50x5	15	INSULATOR	11 KV POST			
2	FIXED CONTACT (FC)	HRC DUFFLATE 200x2 mm x 17mm	9	MOVING ARM FOR DUFFING	M.T ANGLE 30x30x6 mm	16	PHASE COUPLER	GL TRPE 19 mm x			
3	OPERATING TRIP	G.I PIPE 32 mm x	10	OPERATING HANDLE	G.I PIPE 32 mm x	17	INSULATOR BASE	M.S. CHANNEL 75x80x5			
4	LOCKING HOUSING	M.S. FABRICATED	11	PHASE COUPLER CLAMP	M.S. FABRICATED	18	EARTHING STUD	M.S. BOLT M 12			
5	OPERATING BASE	M.S. ANGLE 20x20mm	12	MOVING ARCHING PLATE	G.I ROD 8 mm x	19	BEARING HOUSING	BRASS BUSH & BRIST BEARING			
6	SAFETY STOPPER	M.S. 50 ROD 25 mm x	13	FIXED ARCHING HOUSING	G.I ROD 8 mm x	20	EARTHING CONTACT	HRC DUFFLATE 40x50x5			
7	LOCK	STD RND LOCK WITH KEY	14	FC HOUSING	M.S. FABRICATED	21	FIXED CONTACT	HRC DUFFLATE 40x50x5			

REV	DATE	DESCRIPTION	APPR	TITLE
A	17/10/84	DRAWING No. WA3 JB 1105 A	APR	Q.A. OF 11 KV 400 Amp MANUAL OPERATED DB ISOLATOR WITH EARTH SW
				DRN
				DATE
				REV
				A



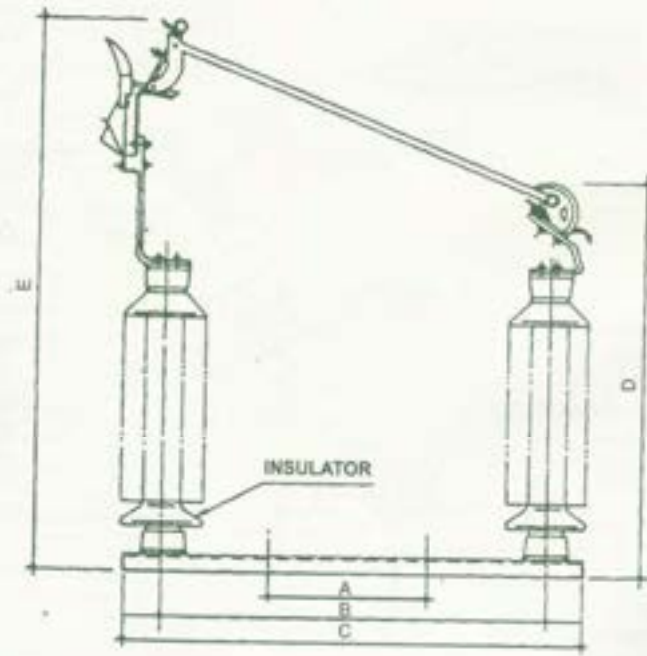
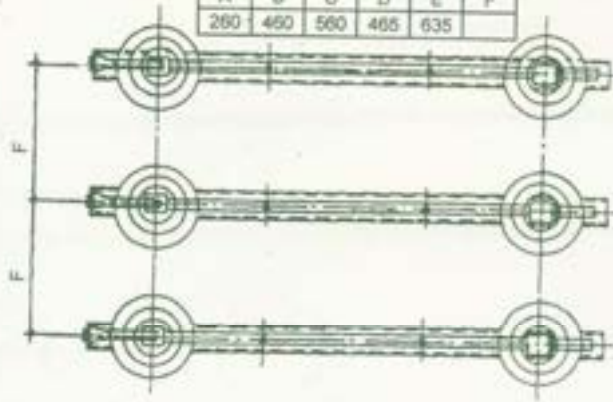
33 KV DROP OUT FUSE

1. Make	JBEPL
2. Drawing No.	: JB-1007
3. Rated Voltage	: 33 KV
4. Highest System Voltage	: 36 KV
5. Rated Current	: 200A / 400 Amp.
6. Minimum Air Clearance between :	
a) Poles	: 1300mm
b) Live parts and Earth	: 500mm
7. Mounting position	: Vertical
8. 33KV Solid Core/22KV post Insulators shall be fitted & each insulator conform to following specifications :	
	33KV 22KV
i) Make	: * *
ii) No. of unit per insulator stack	: 1 2
iii) P.C.D.	: 76mm 76mm
iv) Maximum shed diameter	: 108mm 101mm
v) Minimum total creepage distance	: 860mm 430mm
vi) Over all height of the insulator	: 509mm 254mm
vii) Highest system voltage	: 36KV 24KV
viii) Tensile strength	: 5455 Kg 3060 Kg
ix) Torsional strength	: 115 mkg 70 mkg
x) Compressive strength	: 7000 Kg 4600 Kg
xi) Flash over voltage (Dry)	: 145 KV 90 KV
xii) Flash over voltage (Wet)	: 100KV 60KV
xiii) Dry one minute power frequency withstand voltage	: 95KV 80KV
xiv) Wet one minute power frequency withstand voltage	: 80KV 55KV
xv) Weight of the insulator	: 14.5Kg 6.1Kg
xvi) 1.2/50 microsecond wave impulse voltage	: 200KV 125KV
9. Weight of D.O. Fuse	: 110Kg Approx



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DIMENSION					
A	B	C	D	E	F
260	460	560	465	635	



TOLERANCED DIMENSION : 5.0			TOLERANCED HOLE CENTERS : 5.0					Jaipuria Brothers Electricals Pvt. Ltd.	
REV. DATE		DESCRIPTION		APP		TITLE 33 KV, 200 Amps 3 - Phase DROP-OUT FUSE			
A		26/10/96		INSULATOR WAS 32 KV DOUBLE STACK		ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED.			
DRAWN		CHKD & APPVD		DRAWING NO.		REV			
DATE 27/10/94		SCALE		JBEPL : 1015		A			



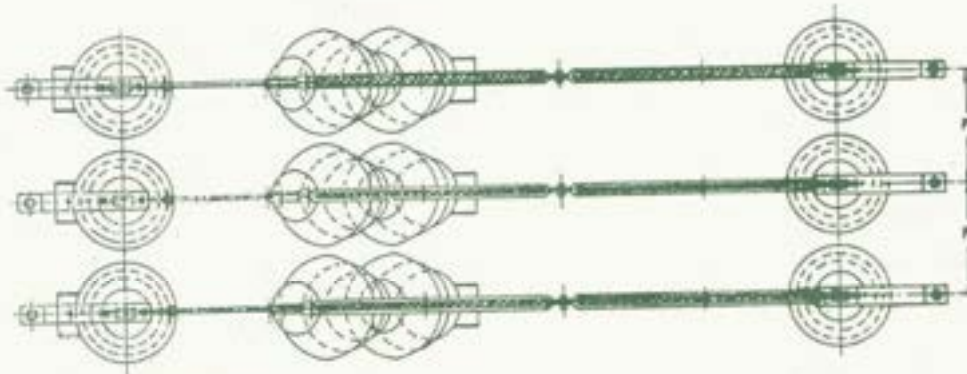
33 KV ISOLATOR (SINGLE BREAK)

1. Make	:	JBEPL
2. Drawing No.	:	JB-1004
3. Type of Isolator	:	Single Break
4. Rated Voltage	:	33 KV
5. Maximum System Voltage	:	36 KV
6. Rated frequency	:	50 C/S
7. Continuous Current Rating	:	400 / 630 / 800 Amp.
8. Maximum Temperature rise over Ambient		
i) Contacts	:	35°C
ii) Terminals	:	50°C
iii) All other current Carrying parts (with Tin Plating)*	:	50°C
9. Loading Arrangement	:	Vertical Mounting
10. Lightning Impulse withstand Voltage	:	170 KV Peak
11. Material of Main contacts		
i) Fixed	:	Cu. Alloy (Tinned)
ii) Moving	:	Cu. Alloy (Tinned)
12. Clearances Between		
i) Poles (Phase centre distance)	:	800 mm
ii) Live parts and Earth	:	500 mm
iii) For Isolating distance	:	350 mm
13. Length of operating handle	:	1600 mm
14. Weight of 3 pole Isolator	:	160 Kg approx
15. 22 / 33 KV Post / Solid Core Insulators of following characteristics :		
i) Creepage distance of each Unit :	Total	860 / 900 mm
	Protected	500 / 457 mm
ii) Dry 1 min. power fre. withstand Voltage	:	80 KV
iii) Wet 1 min. power fre. withstand Voltage	:	55 KV
iv) Dry 1 min. power fre. flashover Voltage	:	90 KV
v) Wet 1 min. power fre. flashover Voltage	:	60 KV

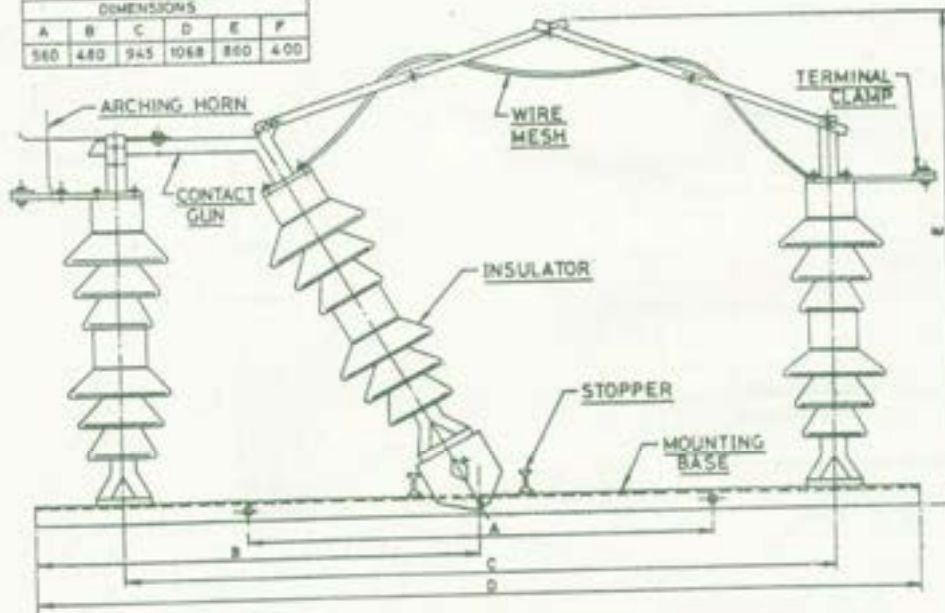
***Silver Plating can also be provision on customer request.**



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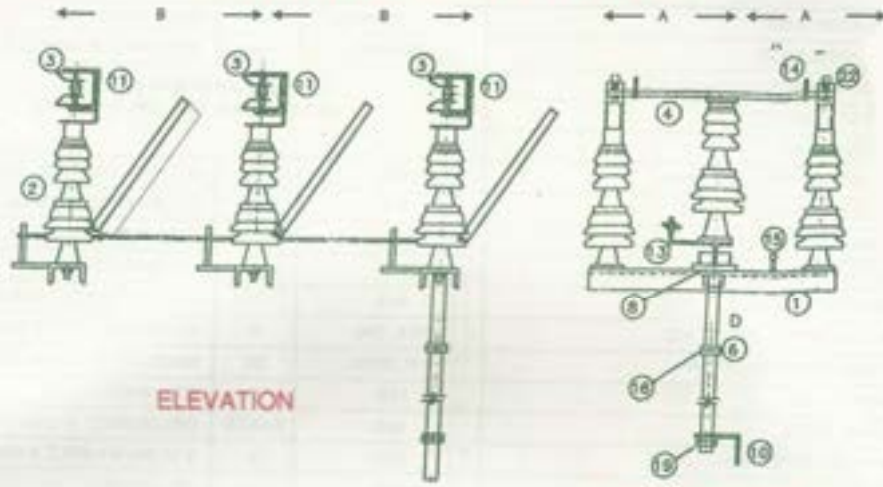
DIMENSIONS					
A	B	C	D	E	F
560	480	945	1068	860	400



UNTOLERANCED DIMENSIONS 5.0		PROJ	Jaipuria Brothers Electricals Pvt. Ltd. NEW DELHI-110006	
UNTOLERANCED HOLE CENTRES 3.0				
REV	DATE	DESCRIPTION	APP	
A	28/10/95	JB-1004		
TITLE			33 KV, 400 Amp., 3 Phase A.B. SWITCH	
ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED				
DRAWN	CHK. & APP.	DRAWING NO.	REV.	
DATE 18/12/94	SCALE N.T.S.	JB-1004	A	

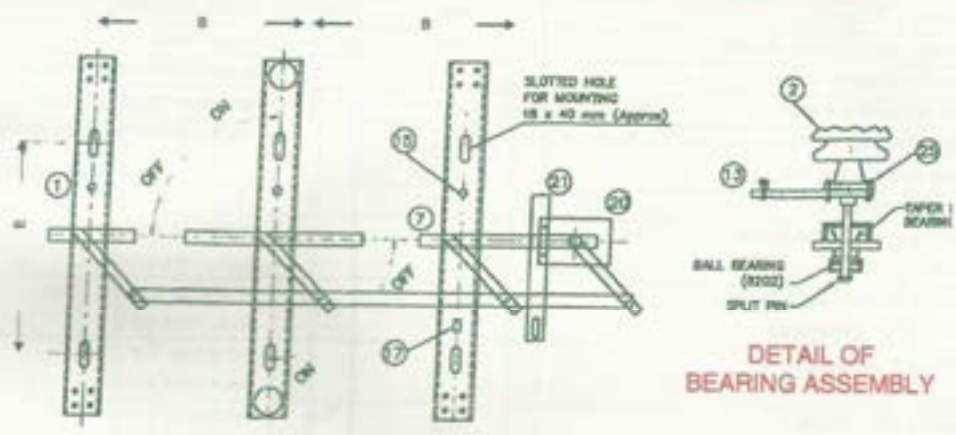


**DOUBLE BREAK CENTRAL ROTATING BANGING TYPE
ISOLATOR 33 KV WITH EARTH BLADE**



ELEVATION

SIDE ELEVATION



PLAN VIEW

DETAIL OF BEARING ASSEMBLY

DIMENSIONS											
A	B	C	D	E	F	G	H	I	J	K	
400	1200	508	880	550							

- ALL FERROUS PARTS ARE HOT DIP GALVANISED
- WEIGHT OF ISOLATOR (HARDWARES) WITH OPERATING MECHANISM :- KG. \pm 10%
- ALL DIMENSION ARE IN MM
- TOLERANCE ON DIMENSIONS \pm 5%
- COPPER CONTACTS PARTS ARE SILVER PLATED AT CONTACTS POINTS ONLY



CODE NO	DESCRIPTION	MATERIAL	QTY	REMARKS
1	INSULATOR BASE	M.S. CHANNEL	3	GALV. 100X50X680
2	POST INSULATOR	CERAMIC	18	24KV WITH 76 MM P.C.D.
3	FIXED CONTACT	DETAIL AS PER IN CONTACT DETAILS DRG. NO:- JBEPL-33KV-02		
4	MOVING CONTACT			
5	TERMINAL PAD			
6	OPERATING PIPE 4.6 M LONG			
7	COUPLER PIPE 3.0 M LONG	M.S.	1	G. I. PIPE 25MM N.B. (21.6MM I.D.)
8	BEARING ASSEMBLY	G.I.	3 SETS	WITH T/ROLLER & BALL BRG.
9	CONTACT COVER	M.S.	6	GALVANISED
10	OPERATING HANDLE	M.S.	1	G.I. PIPE 33.7 O.D. (25N.B.) X 900 LG
11	FIXED CONTACT MOUNTING	M.S. GAL	6	WITH 4-HOLES FOR MOUNTING
12	SPRING WITH INSULATOR	S.P. STEEL	24	MADE OF 18 GAUGE WIRE
13	LEVER PLATE	M.S.	3	GALVANISED
14	ARCING PLATE	M.S.	6 SETS	GALVANISED # 10MM ROD
15	EARTHING TERMINAL	M.S.	3	# 12 MM G.I. BOLT & WASHER
16	GUIDE	M.S.	1	GALVANISED
17	NAME PLATE	AL	3	ANODISED
18	BOLTS & NUTS ETC.	M.S.	AS REQ	PLATE ZN, CR, NL
19	GUIDE CUM LOCKING PLATE	M.S.	1	GALVANISED
20	FORTH BEARING ASSY.	M.S.	1	WITH TAPPER ROLLER BEARING
21	F/B MOUNTING ANGLE	M.S.	1	30 X 30 X 4 MM X 500 LONG
22	TERMINAL CLAMP WITH BIMETALLIC 1 MM THK.	ALUMINIUM	6	SUITABLE FOR ACSR CONDUCTOR
23	TAFLON INSERTS	TAFLON	48	AT BOTH ENDS OF SPRING
24	BOLTS & NUTS FOR FIXING BASE OF INSULATORS	M.S.	36	12 MM DIA X 35 MM LONG FULL THREADED
25	BOLTS FOR FIXING CONTACT AT TOP OF INSULATOR	M.S.	36	12 MM DIA X 25 MM LONG FULL THREADED
26	BOLTS & NUTS FOR MOUNTING OF CHANNELS	M.S.	6	1/2" B.S.W. X 3" LONG HALF THREADED
27	BOLTS FOR TERMINAL CLAMP AND PAD	M.S.	48	3/8" B.S.W. X 1-1/4" LONG WITH NUTS FULL THREADED

**DOUBLE BREAK CENTRAL ROTATING
BANGING TYPE ISOLATOR 33 KV
WITH EARTH BLADE**

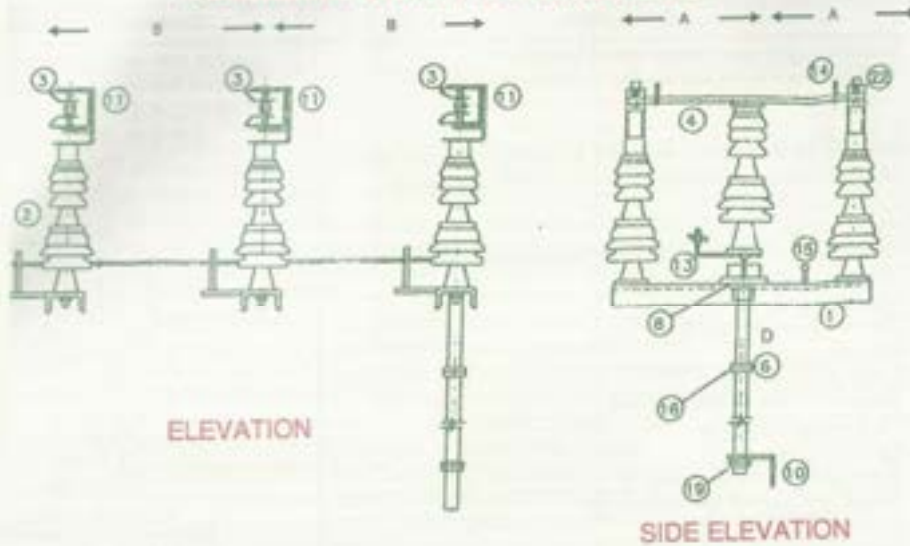
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Electricals Pvt. Ltd.

DELHI - JAMMU

SCALE-	DRG. NO.-	DATE-
N.T.S.	JBEPL-33KV-01	11/07/05

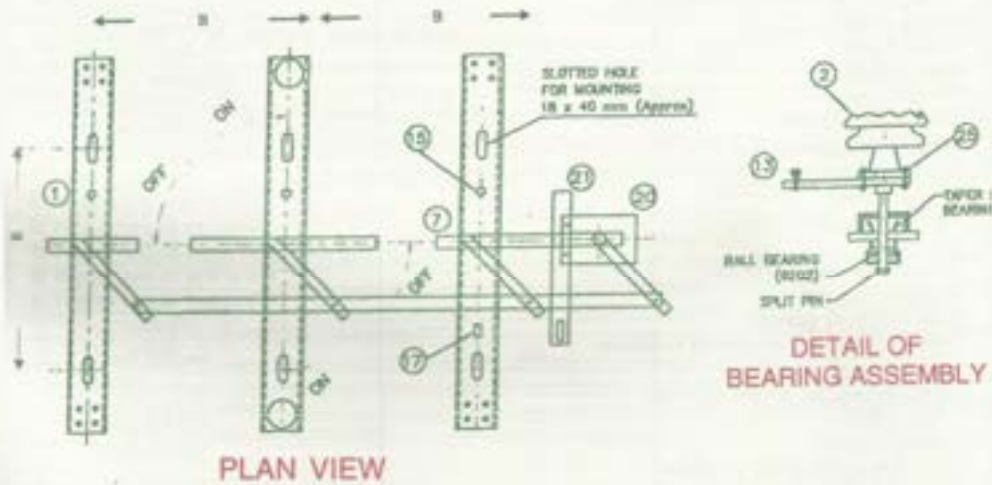


**DOUBLE BREAK CENTRAL ROTATING BANGING TYPE
ISOLATOR 33 KV WITHOUT EARTH BLADE**



ELEVATION

SIDE ELEVATION



PLAN VIEW

DETAIL OF BEARING ASSEMBLY

DIMENSIONS										
A	B	C	D	E	F	G	H	I	J	K
400	1200	506	680	550						

•	ALL FERROUS PARTS ARE HOT DIP GALVANISED
•	WEIGHT OF ISOLATOR (HARDWARES) WITH OPERATING MECHANISM :- KG. \pm 10%
•	ALL DIMENSION ARE IN MM
•	TOLERANCE ON DIMENSIONS \pm 5%
•	COPPER CONTACTS PARTS ARE SILVER PLATED AT CONTACTS POINTS ONLY



GUARANTEED TECHNICAL PARTICULARS FOR 33 KV ISOLATOR WITHOUT EARTH BLADE, WITH POST INSULATORS & ACCESSORIES

S. No.	Description	Technical Particulars
1	Manufacturer's type / Designation / Installation	Central post rotating double break type
2	Manufacturer's name and country of manufacture	Jaipuria Brothers, Electricals Pvt. Ltd. F 16 - 17, 40 Feet Road, Ganga Vihar, Gokulpur, Shahdara, Delhi
3	Standard (s) according to which the isolators are Manufactured	IS : 9921 (I to V)
4	Maximum design voltage at which the isolators can operate	36 KV
5	Rated frequency	50 Hz
6	Rated voltage	33 KV
7	Maximum current that can be safely interrupted by the isolator :	
i)	Inductive (A & % PF)	0.7 A at 0.15 p f
ii)	Capacitive (A & % PF)	0.7 A at 0.15 p f
8	Continuous current rating :	
i)	Nominal	630 Amps
ii)	Under site conditions	630 Amps
9	Rated short time withstand current :	
i)	For 3 seconds (KA rms)	As per IS
ii)	For 1 seconds	16 KA rms
ii)	Rated peak withstand current	49 KA peak
10	Milivolt drop test voltage between :	
i)	Contacts (Ohm/mv)	Within limit as per relevant IS
ii)	Terminals of each phase (Ohm/mv)	Within limit as per relevant IS
11	Current density at Min. Cross-section of:	
i)	Moving blades	2.5 Amps / sq mm
ii)	Terminal pad	1.6 Amps / sq mm
iii)	Male contacts	2.5 Amps / sq mm
iv)	Female contacts	2.5 Amps / sq mm
v)	Terminal connectors	1.0 Amps / sq mm
12	Maximum temperature rise of following current carrying parts when carrying rated current continuously (deg. C) over an ambient of 50 deg. C instead of 40 deg. C mentioned in relevant IS :	
i)	Moving blades	Within limit as per relevant IS
ii)	Contacts with silver plating	Within limit as per relevant IS
iii)	Terminal pad	Within limit as per relevant IS
iv)	Bimetallic terminal connectors	Within limit as per relevant IS
v)	Springs	Within limit as per relevant IS
13	Class (indoor or outdoor)	Outdoor
14	Derating factor for specified site conditions	Unity
15	Insulation level	
i)	Lightening impulse withstand voltage	
a)	Phase to earth	170 KV peak
b)	Isolating distance	195 KV peak
ii)	Power frequency withstand voltage	
a)	Phase to earth	70 KV rms
b)	Isolating distance	80 KV rms
16	Minimum clearance in air (mm) :	
i)	When switch is closed :	
a)	Between adjacent poles of different phases	1200 mm
b)	Between live parts and earth	400 mm
ii)	When switch is opened:	
a)	Between poles of same phase (center to center)	400 mm
b)	Between adjacent poles of different phases (center to center)	1000 mm
17	Rated mechanical terminal load :	
i)	Load along the terminal connector side (Kg)	As per relevant IS



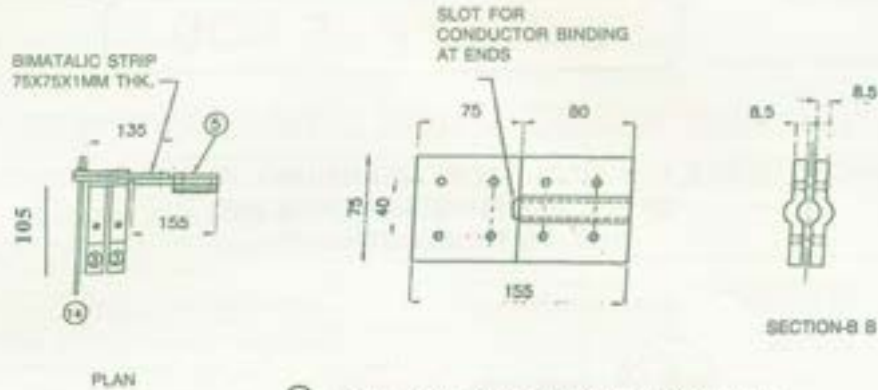
S. No.	Description	Technical Particulars
ii)	Load across the terminal connector side (Kg)	As per relevant IS
18	Torque required to operate the switch	40 Kg - m
19	Contact zone :	
i)	Horizontal deflection (mm)	NA
ii)	Vertical deflection (mm)	NA
iii)	Total amplitude of longitudinal movement with respect to conductor supporting fixed contact (mm)	NA
20	Design and construction :	
i)	Number of insulators per pole	Three (each 2 x 24 KV stack)
ii)	Number of breaks per pole	Two
iii)	Type of closing / opening mechanism (Horizontal / Vertical break etc.)	Horizontal
iv)	Contacts (Male):	
a)	Material and grade	Copper tube
b)	Dimension & cross sectional area in sq. mm.	As per drawing to be approved
v)	Contacts (Female):	
a)	Material and grade	Copper tube
b)	Dimension & cross sectional area in sq. mm.	As per drawing to be approved
vi)	Moving blades :	
a)	Material and grade	Copper tube
b)	Dimension & cross sectional area in sq. mm.	As per drawing to be approved
vii)	Terminal pad (projected) :	
a)	Material and grade	Copper tube
b)	Dimension & cross sectional area in sq. mm.	As per drawing to be approved
viii)	Arcing horns:	
a)	Material and grade	GI rod
b)	Dimension & cross sectional area in sq. mm.	10 mm dia
ix)	Flexible earth connector for isolator :	
a)	Material and grade	As per drawing to be approved
b)	Dimension & cross sectional area in sq. mm	As per drawing to be approved
x)	Flexible copper strip for earth connector for operating handle	
a)	Material and grade	As per drawing to be approved
b)	Dimension & cross sectional area in sq. mm	As per drawing to be approved
xi)	Springs :	
a)	Material and grade	Stainless steel
b)	Dimension & cross sectional area in sq. mm	14 SWG, 6 nos. turns per coil
xii)	Contact support:	
a)	Material	As per drawing to be approved
b)	Size & length of plate	As per drawing to be approved
xiii)	Rain hood - material grade and size	NA
xiv)	Nuts and bolts:	
a)	Size, material and grade of live parts	As per drawing to be approved
b)	Size, material and grade of other parts	As per drawing to be approved
xv)	Insulator base plate - material and size and minimum thickness of plate below insulator	As per drawing to be approved
xvi)	Bearings:	
a)	Make, type and number of bearings for :	
i)	Rotating insulator base assembly	Taper roller bearing at top & ball bearing at bottom
ii)	Operating mechanism	Taper roller thrust bearing
iii)	Whether lubricating nipple is provided	Yes
b)	Make and size of bearing housing	As per drawing to be approved
xvii)	Size of G I pipes (Medium class) used for :	



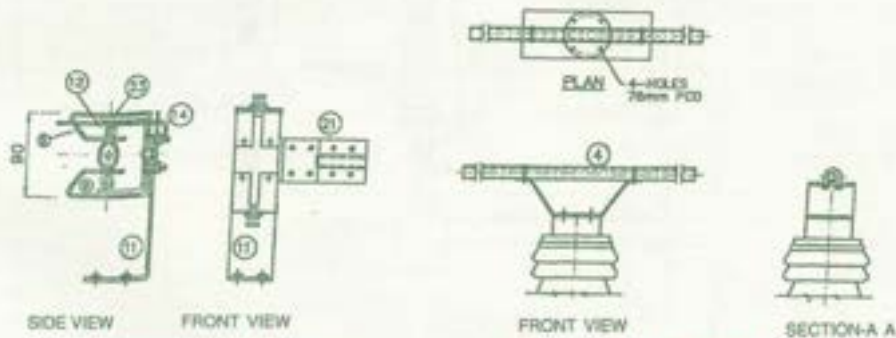
S. No.	Description	Technical Particulars
a)	Down Operating Pipe	25 mm NB, 4.6 meter long
b)	Connecting pipe for same phase (mm)	NA
c)	Connecting pipe for adjacent poles (mm)	20 mm NB
xviii)	Operating handle :	
a)	Length	500 mm
b)	Size	25 mm NB
xix)	Type of Interlock	
xx)	Type of universal / swived joint :	
a)	Between bearing and down pipe	Universal
b)	Between down pipe and operating mechanism	Universal
xxi)	Insulators :	
a)	Type	2x24 KV Pedestal post type (E - 32)
b)	Numbers of unit per insulator	Two
c)	Rating of insulators	24 KV
d)	Height of each insulator stack	264 mm
e)	Bolt circle diameter	78 mm
f)	Tensile strength (Kg.)	30 KN
g)	Compressive strength (Kg.)	40 KN
h)	Torsional strength (Kg. - m)	680 Nm
i)	Canilever strength upright	9 KN
j)	Power frequency dry flash over voltage	70 KV rms
k)	Power frequency wet flash over voltage	60 KV rms
l)	Impulse flash over voltage (positive wave)	135 KV peak
m)	Impulse with stand voltage	135 KV peak
n)	Power frequency puncture voltage (KV)rms	1.3 times of actual dry flash over of the unit
o)	Visible discharge voltage level	18 KV rms
p)	Creepage distance	
i)	Total (mm)	430 mm
ii)	Protected (mm)	215 mm
q)	Dry arcing distance (mm)	As per relevant IS
xxii)	Base :	
a)	Size, numbers and length of steel section used	100 mm x 50 mm (1 no. per pole)
b)	Overall size	880 mm
c)	Total weight (Kg.)	As per drawing to be approved
xxiii)	Terminal connectors:	
a)	Clamp body :	
i)	Alloy composition	Aluminium alloy
ii)	Plating, if any	No
iii)	Dimension	As per drawing to be approved
iv)	Area at minimum cross section (sq. mm)	As per drawing to be approved
b)	Bolts and Nuts - Size	
i)	Alloy composition	MS plated
ii)	Tenalle strength	As per relevant IS
c)	Type of washers used	Flat & spring
d)	Material of clamps	As per drawing to be approved
e)	Temperature rise when carrying rated current at 50° C ambient (deg. C)	Within limit as per relevant IS
f)	Weight of each type of clamp (Kg.)	As per drawing to be approved
21	Mass of Isolator hardware in Kg. (without earth blade)	As per drawing to be approved
22	Type of contacts :	Reverse loop type spring loaded
23	Nuts & bolts :	
a)	Size, material and grade in live parts	MS Zinc plated
b)	Size, material and grade in terminal connector	MS Zinc plated
c)	Size, material and grade in other parts	MS Zinc plated
24	Locking arrangement of Isolators	As per drawing to be approved
25	Whether Isolator hardware is complete with all accessories	Yes



jaipuria brothers
Electricals Pvt. Ltd.



21 DETAIL OF ALUMINIUM TERMINAL CLAMP SUITABLE FOR HORIZONTAL AS WELL AS VERTICAL



FIXED CONTACT ASSEMBLY

MOVING CONTACT PIPE ASSEMBLY

FIXED CONTACT **MOVING CONTACT**
Rs. 6000/- EACH Rs. 8500/- EACH

TERMINAL PAD **ARCHING HORN**
Rs. 1100/- EACH Rs. 350/- EACH

BILL OF MATERIAL				
CODE NO.	DESCRIPTION	MATERIAL	QTY.	REMARKS
3	Fixed Contact (2 Fingers)	Copper Silver Plated	8 Sets	18.0 x 3.05 mm THK.
4	Moving Contact Pipe	Copper Silver Plated	3	31.870.0x06.113.985 mm
5	Terminal Pad	Copper Silver Plated	8	75 x 6.0 x 13.5mm Long
9	Contact Cover	M.S.	8	Gal Varished
11	Fixed Contact Mounting	M.S. Gal	8	4-Holes For Mounting
14	Arching Horn	M.S.	8 Sets	Gal varished 10.0 mm Dia
22	Terminal Clamp with Bimetallic Strip 1 mm THK.	M.S.	8	Suitable for ACSR Conductor
23	Teflon Inserts	Teflon	48	At Both End of Spring

- * COPPER CONTACT ARE SILVER PLATED AT CONTACT POINTS ONLY
- * TOLERANCE ON DIMENSIONS ± 5%
- * ALL DIMENSION ARE IN MM

CONTACT DETAILS FOR DOUBLE BREAK CENTRAL ROTATING BANGING TYPE ISOLATOR 33KV WITHOUT EARTH BLADE

DELHI
JAIPUR
JAMMU

jaipuria brothers
Electricals Pvt. Ltd.

SCALE-	DRG. NO.-	DATE-
N.T.S.	JBEPL-33KV-02	11/07/05



jaipuria brothers
Electricals Pvt. Ltd.

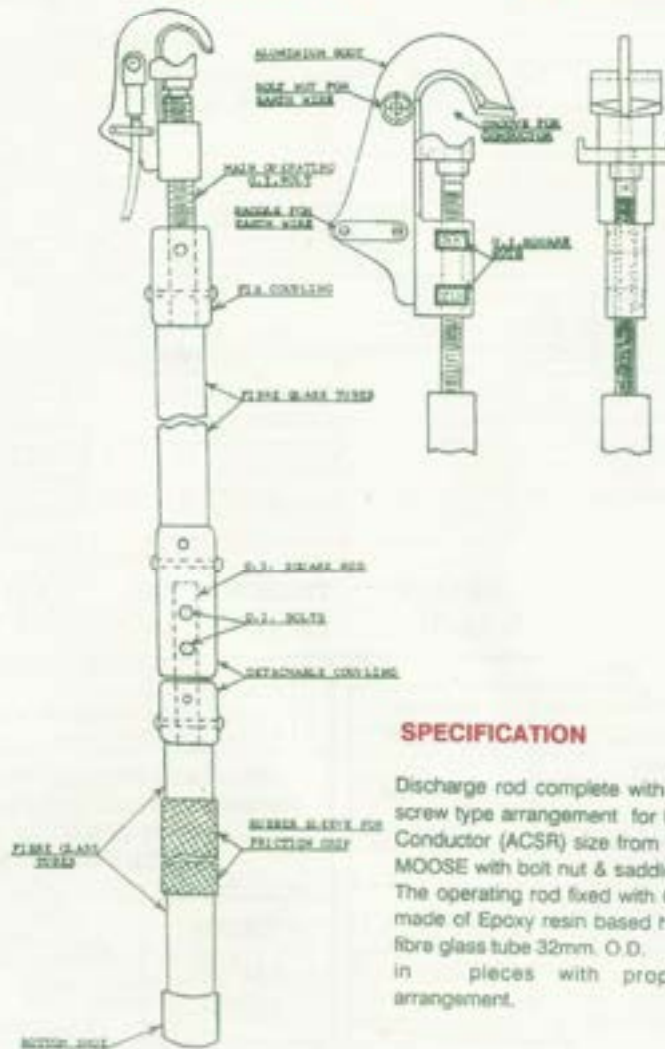
DISCHARGE ROD

WITH CLAMP HAVING SCREW TYPE ARRANGEMENT

A UNIQUE DEVICE FOR DISCHARGING (EARTHING) RESIDUAL CURRENT OF EHT TRANSMISSION LINES AND SUB-STATION EQUIPMENTS

COMPLETE ROD SET

TOP ALUMINIUM CLAMP



SPECIFICATION

Discharge rod complete with Clamp having screw type arrangement for fixing tightly on Conductor (ACSR) size from RACCOON to MOOSE with bolt nut & saddle for earthwire. The operating rod fixed with Clamp shall be made of Epoxy resin based highly insulated fibre glass tube 32mm. O.D. meter long in pieces with proper coupling arrangement.



**PORTABLE EARTHING/DISCHARGE ROD
'F' CLASS INSULATION (EPOXY BONDED GLASS FIBRE)**

Technical Specifications

SYSTEM VOLTAGE	25 KV (RDSO SPECIFICATION)	11/33 KV	66/132 KV	220 KV	400 KV
Overall Length	5.1 mtrs. (3x1.7 mtrs.)	1.7 mtrs. (1X1.7 mtrs)	3.4 mtrs. (2x1.7 mtrs.)	5.1 mtrs. (3x1.7 mtrs)	6.5 mtrs. (3x1.7 mtrs. + 1.4 mtr)
Dimensions	O.D. 45 mm (± 10%)	ID-25mm, OD-35mm	ID-25 mm OD-35mm	ID-25mm OD-35mm	ID-25 OD-35mm
Main Discharge Clamp (Conductor Clamp)	Copper/Aluminium (Adjustable Spring Loaded)	Copper/Aluminium (Adjustable Spring Loaded)	Copper (Adjustable Spring Loaded) or Brass/G.M./ALM 'C' type with square thread)	Copper/Aluminium (Adjustable Spring Loaded) or Brass/G.M./ALM 'C' type with square thread)	Copper/Aluminium (Adjustable Spring Loaded) or Brass/G.M./ALM 'C' type with square thread)
Earthing Lead	PVC Insulated/ PVC Sheathed 40 sq. flexible	PVC Insulated flexible copper conductor.	PVC Insulated flexible copper conductor	Transparent PVC Insulated flexible copper conductor.	Transparent PVC Insulated flexible copper conductor.
Earthing Clamp	'U' shaped M.S. (02 Nos.)	'U' shaped Copper.	'U' shaped Copper	'U' shaped Copper	'U' shaped Copper
T Connector	Brass (Insulated)	N.A.	N.A.	N.A.	N.A.
Joints	M.S.	N.A.	ALM.	ALM.	ALM.
Resistor Column	Not provided	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
Carrying case	Canvas Bag.	Canvas Bag.	Canvas Bag.	Canvas Bag.	Canvas Bag.

Maintenance Free, Moisture Resistance 'F' Class Insulation 100% safe for operator.

Unmatched Mechanical strength suitable for high wind velocity areas.

High Temperature withstand capability.

Light weight allows one person to handle the rod easily from ground level.

Resistor column helps avoiding surges, which may damage equipment & system due to sudden discharge of energy.

Choice of different type of conductor clamps (Main discharge Head) suitable for flat Busbar/ACSR Conductor/ 4" IPS Aluminium Pipe.



**JAIPURIA BROTHERS ELECTRICALS PVT. LTD.
OPERATING ROD**

11 KV / 22 KV / 33 KV
Operating Rod 20 ft. long
In three section made from best
Quality fine wood with SRBP Tube
and aluminium head, PVC coated
11 Kv / 22 Kv Rs. 4000/- each
33 Kv Rs. 5000/- each
Wooden Discharge Rod PVC coated 11 Kv / 22 Kv
Wooden Discharge Rod PVC coated 33 Kv
Fibre Glass Discharge Rod 11 Kv / 22 Kv
Fibre Glass Discharge Rod 33 Kv
Telestone type Fibre Glass Discharge Rod @ 11/33
Fibre Glass Discharge Rod 66 Kv
Fibre Glass Discharge Rod 132 Kv
Fibre Glass Discharge Rod 220 Kv
Fibre Glass Discharge Rod 400 Kv

11 KV / 22 KV / 33 KV
FIBRE GLASS
D.O. Operating Rod
@ Rs. 8500/-

@ Rs. 4000/- each
@ Rs. 5000/- each
@ Rs. 11500/- each
@ Rs. 15500/- each
@ Rs. 22000/- each
@ Rs. 32000/- each
@ Rs. 40000/- each
@ Rs. 45000/- each
@ Rs. 50000/- each



**JAIPURIA BROTHERS
ELECTRICALS PVT. LTD.
RUBBER MATTINGS**

ELECTRICAL INSULATION

Rubber Matting as per 

1 mtr x 2 mtr x 6 mm Rs. 2500/-
1 mtr x 2 mtr x 10 mm Rs. 3500/-
1 mtr x 2 mtr x 12 mm Rs. 4200/-
1 mtr x 2 mtr x 19 mm Rs. 6600/-
1 mtr x 2 mtr x 25 mm Rs. 8000/-

INSULATING MATS FOR ELECTRICAL PURPOSES

Confirming to IS : 15652-2006
(Superceding IS : 5424-1969)

THICKNESS	DIELECTRIC STRENGTH	AC RMS VOLTAGE
2.00 mm	30KV	3.3KV
2.50 mm	45KV	11KV
3.00 mm	65KV	33KV

RUBBER MATTING  MARK

3.3KV RS. 3600/- p/mtr
11.KV RS. 4000/- p/mtr
33KV RS. 4500/- p/mtr

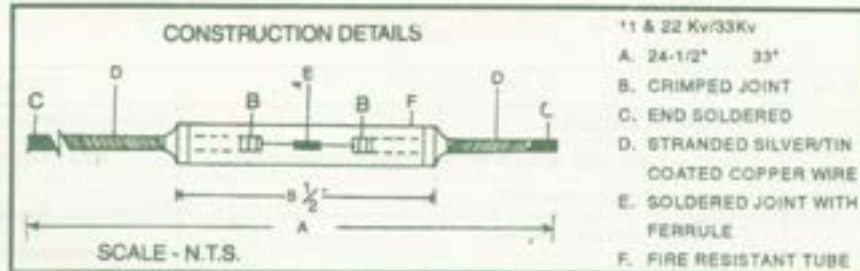
ELECTRICAL RUBBER HAND GLOVES

		15 KV	22 KV	33 KV
Rate	Rs.	900/-	1200/-	2300/-
		pair	pair	pair





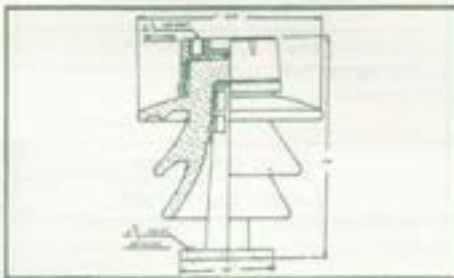
**JAIPURIA BROTHERS
ELECTRICAL PVT. LTD.
D.O. FUSE ELEMENTS**



- *1 & 22 Kv/33Kv**
- A. 24-1/2" 33"
 - B. CRIMPED JOINT
 - C. END SOLDERED
 - D. STRANDED SILVER/TIN COATED COPPER WIRE
 - E. SOLDERED JOINT WITH FERRULE
 - F. FIRE RESISTANT TUBE

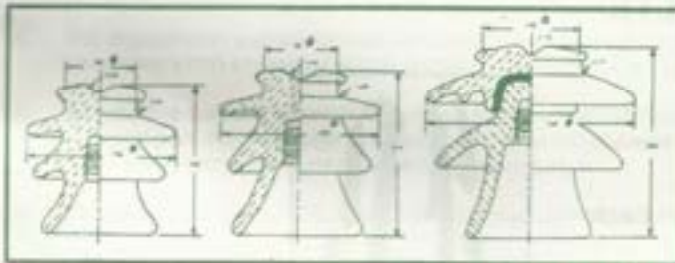
(Price Per each)

11/22 KV	2.5 to 25 Amp.	30 A	40 A	50 A	60 A	75 A	100 A	150 A	200 A
	100/-	120/-	140/-	160/-	200/-	280/-	300/-	400/-	500/-
33 KV	2.5 to 25 Amp.	30 A	40 A	50 A	60 A	75 A	100 A	150 A	200 A
	125/-	150/-	200/-	250/-	275/-	300/-	350/-	450/-	600/-



POST INSULATORS : (Porcelain / Polymer)

- 11 KV - @ Rs. 800/- per each
- 22 KV - @ Rs. 1400/- per each
- 33 KV - @ Rs. 4200/- per each



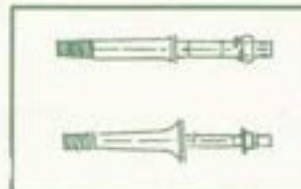
(Porcelain / Polymer)

- 11 KV Pin Insulators with G.I. Pin @ Rs. 400/- per each
- 22 KV -do- @ Rs. 600/- per each
- 33 KV -do- @ Rs. 1050/- per each

HARDWARES FOR PIN INSULATORS :

Spindles Pin Insulators

11 KV	Rs. 200/- each
22 KV	Rs. 200/- each
33 KV	Rs. 400/- each





jaipuria brothers
Electricals Pvt. Ltd.

**GUARANTEED TECHNICAL PARTICULARS FOR DROP OUT FUSE ELEMENTS
(Porcelain / Polymer)**

S. No.	Particulars	Technical Particulars
1	Name of Manufacturer	Jaipuria Brothers Electricals Pvt. Ltd., Delhi
2	Constructional detail of the fuse elements (enclosed drawing)	As per drawing to be approved
3	Material of the fuse element	Alloy wire
4	Overall length of fuse element	21 inch
5	Length of covering (SRBP) for fuse element	8.5 inch
6	Outer & inner diameter of SRBP	1/4 inch x 5/16 inch
7 i)	No. of strand in tail wire	7 nos.
ii)	No. & size of wires in each strand	5/8 - 36 SEG
iii)	Material of wire	Tinned Copper
8	Fusing factor (enclosed time current characteristic)	To be furnished
9	Pull load of fuse element	7 Kg.
10	Minimum time required to blow the fuse element at 60% overload currents.	23 seconds
11	Marking on fuse element	As per specification
12	IS reference number to which fuse element conform	IS 9385 / (part II / 1980)

INDUSTRIAL SAFETY BELTS



Rate Rs. 3000/- Each





**GH & LOW VOLTAGE EXPULSION TYPE FUSES FOR POWER CAPACITORS
(NON CURRENT LIMITING)
AND
FOR PROTECTION OF DISTRIBUTION TRANSFORMER
(H.T. & L.T. SIDE)**

**EXPULSION FUSES - A SUPERIOR METHOD FOR PROTECTING HIGH VOLTAGE POWER
CAPACITORS**

In almost all the applications, the capacitor whether high voltage or low voltage can be safely protected with expulsion fuses. (Non-Current-Limiting) Individual capacitor fuses are used to protect against case bursting in the event of a failure within a capacitor by reducing the arc energy within a faulty capacitor to a value which can be stood by the capacitor tank.

FUNDAMENTAL PROTECTION PRINCIPLES

Several fundamental Principles must be observed in the selection of fuses for capacitor application. These are :

1. Modern practice is to manufacture smaller units of capacitor which can be produced more economically and to group them in series and parallel combination as required for a particular application. While providing protection for smaller capacitors, it is necessary to select a fuse with a current rating atleast 2 to 2.5 times the rated current of the capacitor because of two reasons :-
 - (1) Peak inrush currents
 - (2) Surge absorbing ability of the fuses.
2. The expulsion fuses must have sufficient Interrupting capacity to handle successfully the available fault current, clearing voltage and available energy i.e. Kilojoules value.
3. The fuse must withstand, without damage, the normal transient current during capacitor / bank energisation or deenergisation, Similarly it must withstand unit's discharge current during a terminal-to-terminal short circuit.
4. For ungrounded - wye banks' maximum fault current is usually limited to three times the normal line current. The fuse must clear within a reasonable time at 95% of available fault current.
5. For effective capacitor protection, maximum asymmetrical RMS faults current should not exceed the current value at the intercept point of the capacitor tank Rupture time-current-characteristic curve and the maximum time shown on the fuse maximum clearing time current-characteristic curve.
6. The maximum clearing TCC curve of the fuse must coordinate with the Tank Rupturing TCC curve of the capacitor.

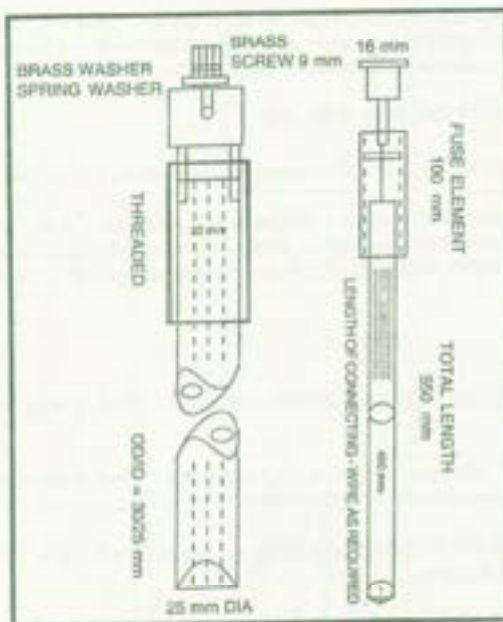
ADVANCE TECHNOLOGY FOR HIGH PERFORMANCE EFFICIENCY AND DEPENDABILITY

Taking into consideration the above criteria, Expulsion Fuses manufactured by Jaipuria Brothers Electricals Pvt. Ltd. cat to the following features and have the ability to withstand.

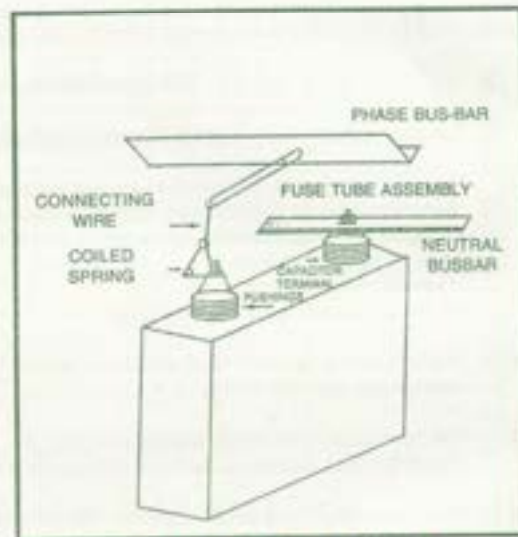
1.
 - a) Transient Switching Surges
 - b) Transient Peak Inrush Currents
 - c) Overloads due to Harmonics and Voltage Fluctuations.
 - d) High Frequency Discharge Currents.
 - f) High Thermal Rating
 - g) Limiting Arc Energy
 - h) Mechanical Stresses



2. Time-Current-Characteristics matching with the Capacitor Box Bursting Characteristics. These Expulsion Fuses further provide.
- Discrimination between fuses protecting the faulty capacitor and those protecting the healthy capacitors.
 - Easy replacement.
 - Visual indication when blown off.
 - Economical to use.
 - Lower Watt Losses
 - Inter-changeability.
 - High grade insulating carrier
 - Suitable lead length for connections as required
 - Complete with tension spring, washer and brass bolt.



PRICE ON REQUEST



PRICE ON REQUEST

TECHNICAL PARTICULARS

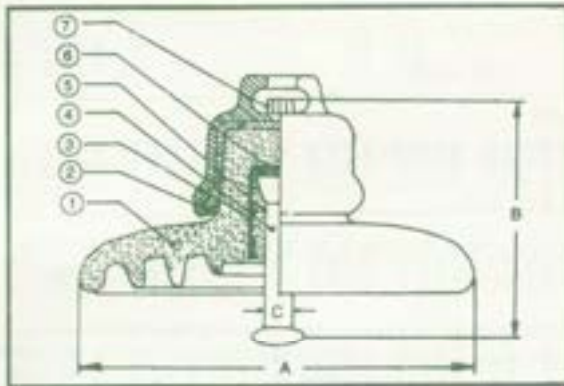
Current Rating	10 Amp to 80 Amp
Voltage	22 KV Class
Frequency	50 Hz
Breaking Capacity	10 Kilojoules to 80 KJ 125 KV (Impulse)
Insulation Level	55 KV (Power frequency)

QUALITY CONTROL & TESTING

JAIPURIA BROTHERS ELECTRICALS PVT. LTD.

Expulsion fuses (non-current-limiting) are manufactured in accordance with the best manufacturing practices and strict quality control is exercised at every stage of manufacture. These are manufactured and tested as per IS - 9385 (P T - II) 1980 and meet with the requirements of International Standard IEC 282-1970

The fuses for capacitor protection were being imported, Jaipuria Brother's Electricals Pvt. Ltd. fuse is an indigenous effort with Indian Technical know how and materials. JBEPL Products means advanced technology for high performance efficiency and dependability.



- | | |
|------------------------|---------------------|
| 1. Procelain / Polymer | 5. Bituminous Paint |
| 2. Malleable Cap | 6. Cement |
| 3. Sanding | 7. W-splint |
| 4. Ball Pin | |

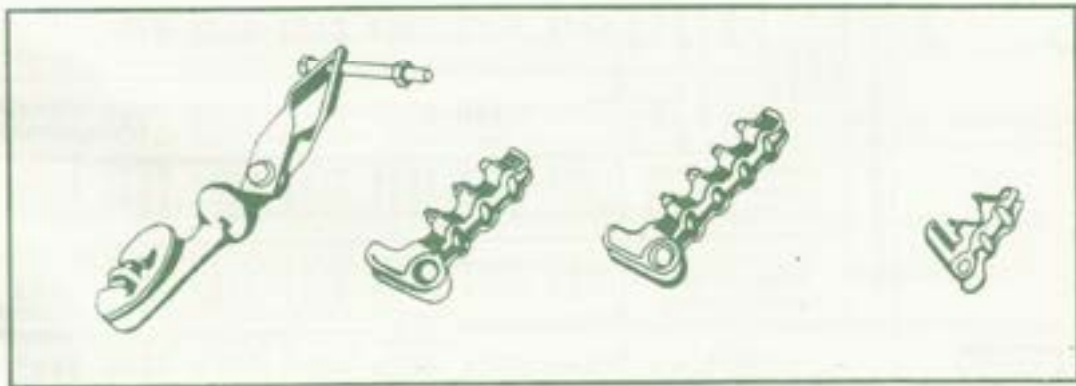
DISC INSULATORS

11 KV Disc Insulators

with hardware fitting @ Rs. 1150/- Each

22 KV -do- @ Rs. 2100/- Set

33 KV -do- @ Rs. 4200/- Set





Jai Puria Brothers
Electricals Pvt. Ltd.

CONDUCTOR CATALOGUE
DATA SHEET - METRIC SYSTEM
ALUMINIUM CONDUCTOR STEEL REINFORCED (ACSR)

Based on IS : Spon 358/Part-8 of 1976

CODE WORD	ELECTRICAL CHARACTERISTICS					MECHANICAL CHARACTERISTICS										
	Nominal Copper area sq. mm	Calculated Equivalent Area of Aluminium sq. mm	Calculated Resistance at 20°C when corrected to Standard Mt. Onskin	Approx. Current carrying capacity		Dia of Con- ductor mm.	Diameter of Wires mm.		No. of Wires	Total Conductor Kg/Km.	Approx. weight of Conductor Kg/Km.	Approx. Ultimate Tensile strength of Conductor Kg.	Calculated Approximate Modulus of Elasticity Kg. cm ² /sq. cm	Calculated Approx. Coefficient of Linear expansion 10 ⁻⁶	Standard Length Meters	No. of Lengths in one Feet
				Al 40°C ambient Tempera- ture Amp.	Al 45°C ambient tempera- ture Amp.		Al.	St.								
SOURREL	13	20.71	1.274	119	107	6.33	2.11	1	85	57.6	27.4	0.8090	18.99	1260	6	
GOPIHER	16	25.91	1.003	133	123	7.06	2.26	1	106	71.9	34.1	0.8090	*	1985	5	
HEASSEL	20	31.21	0.8116	150	139	7.77	2.50	1	128	80.0	41.2	0.8090	*	1646	5	
FEPREY	25	41.84	0.6795	181	168	8.00	3.00	1	171	116.1	54.8	0.8090	*	1220	5	
RABBIT	30	52.21	0.5469	209	190	10.05	3.35	1	214	144.8	69.2	0.8090	*	1907	1	
MINK	40	62.52	0.4562	274	217	10.86	3.66	1	265	172.6	82.4	0.8090	*	1597	1	
BLAVIER	45	74.07	0.3841	281	242	11.97	3.89	1	303	205.4	97.8	0.8090	*	1348	1	
RACCOON	48	77.83	0.3658	270	250	12.27	4.09	1	318	215	100	0.8090	*	1276	1	
OTTER	50	82.85	0.3454	260	260	12.69	4.22	1	339	229.2	109.8	0.8090	*	1200	1	
CAT	55	94.21	0.3020	305	263	13.50	4.50	1	365	260.9	124.1	0.8090	*	1056	1	
DOG	65	103.8	0.2745	354	300	14.15	4.72	1	364	268.0	106.0	0.73250	19.53	1100	1	
LEOPARD	80	129.7	0.2190	375	340	15.84	5.28	1	493	369.5	133.4	0.73550	19.53	885	1	
COYOTE	80	128.5	0.2214	375	348	15.86	5.24	1	501	363.0	136.0	0.77730	18.99	2017	1	
TIGER	80	128.1	0.2211	362	354	16.52	5.26	1	504	362.5	141.5	0.78770	17.73	1962	1	
WOLF	86	154.2	0.1844	430	398	18.13	5.59	1	727	438.0	281.0	0.6800	*	1034	1	
LYNX	110	179.0	0.1588	475	440	19.53	5.78	1	844	506.0	338.0	0.78770	*	1402	1	
PANTHER	130	207.9	0.1375	520	482	21.00	6.00	1	978	596.0	390.0	0.78770	*	1223	1	
LION	140	232.5	0.1223	555	515	22.38	6.18	1	1097	659.0	438.0	0.78770	*	1086	1	
BEAR	160	258.1	0.1102	595	552	23.45	6.35	1	1229	736.0	491.0	0.78770	*	975	1	
GOAT	160	316.5	0.8999	680	630	25.97	6.71	1	1492	896.0	596.0	0.78770	*	773	1	
SHEEP	235	360.1	0.6777	745	690	27.93	6.99	1	1726	1036.0	690.0	0.78770	*	667	1	
DEER	260	419.3	0.6786	805	747	29.29	7.27	1	1977	1186.0	799.0	0.78770	*	582	1	
ELK	300	495.7	0.6110	865	798	31.50	7.50	1	2196	1303.0	870.0	0.78770	*	526	1	
MOOSE	325	515.7	0.65317	900	826	31.77	7.53	1	2602	1403.0	939.0	0.68960	19.53	911	1	
* SPARROW	23	33.16	0.8078	-	-	8.01	2.67	1	135	92.0	43.0	0.8090	18.99	1054	3	
* FOX	22	36.21	0.7657	165	153	8.37	2.79	1	148.9	103.8	48.1	0.8090	18.99	1492	3	
* GUNEA	40	78.56	0.3620	-	-	14.80	2.92	1	590.0	354.0	205.0	1.059	15.30	1297	1	
* LARK	125	198.1	0.1451	-	-	26.40	2.82	1	556.0	302.0	203.0	0.78770	17.73	1298	1	
* ZEBRA	260	418.6	0.680	795	736	28.52	3.16	1	1623.0	1185.0	428.0	0.6860	19.35	1005	1	

Conductors marked with asterisk * are not included in ISS : 088 : (1976).



HARDWARE FOR TRANSMISSION LINE

Name of the Fittings of ACSR Conductor	Cast Iron	Aluminium Alloy General (Per Set)	Aluminium Alloy L.M. 6 (Per Set)
(A) TENSION HARDWARE FITTING COMPLETE WITH D-SHACKLE, BALL LINK, U-BOLTS AND BALL EYE SOCKET			
1. ALL ALUMINIUM CONDUCTOR			
I. TRANTULLA : FIVE U-BOLT TYPE CLAMP	-	-	2280.00
II. SIX U-BOLTED TYPE	-	-	2700.00
2. ACSR, DEER, MOOSE, ZEBRA			
I. FIVE U-BOLTED TYPE 0.4 & 0.5	-	-	2280.00
3. ACSR PANTHER CONDUCTOR			
I. FIVE U-BOLTED TYPE	-	-	1620.00
II. FOUR U-BOLTED TYPE (HEAVY)	575.00	900.00	1320.00
III. FOUR U-BOLTED TYPE (LIGHT)	-	625.00	1140.00
TENSION HARDWARE FITTING COMPLETE WITH CROSS ARM STRAPS, BALL EYE SOCKET BALL EYE AND U-BOLT			
4. ACSR DOG & RACCON 0.1 & 0.75			
A I. THREE U-BOLTED TYPE (HEAVY)	450.00	425.00	550.00
II. THREE U-BOLTED TYPE (LIGHT)	-	375.00	500.00
III. FOUR U-BOLTED TYPE (LIGHT)	-	465.00	525.00
B I. TWO BOLTED TYPE (HEAVY)	375.00	500.00	660.00
II. TWO BOLTED TYPE (LIGHT)	-	450.00	600.00
III. TWO U-BOLTED TYPE (LIGHT) (WEASAL ACSR) 3" U-BOLT	-	300.00	420.00
5-(A) 1. 11KV DISC FITTING BALL AND SOCKET TYPE	180.00	-	-
2. 11KV DISC FITTING T AND C TYPE	125.00	-	-
(B) SUSPENSION HARDWARE FITTINGS, COMPLETE WITH BALL HOOK, SOCKET, U-BOLTS, RIVITES AND CLAMP :			
I. AAC TARANTULLA	-	-	1020.00
II. ACSR 0.4 AND 0.5 DEER, MOOSE, ZEBRA	-	-	1020.00
III. ACSR 0.4 & 0.5 LIGHT	-	-	750.00
IV. ACSR 0.2 PANTHER	400.00	575.00	870.00
V. ACSR 0.1 & 0.075 DOG & RACCON	450.00	400.00	660.00

NOTE: ALL ABOVE FITTINGS ARE SUITABLE FOR 18 MM BALL & SOCKET TYPE DISC INSULATOR FOR FITTING REQUIRED FOR 20 MM BALL & SOCKET TYPE DISC INSULATOR RS. 200/- CHARGES EXTRA ALL ABOVE RATES ARE F.O.R. DELHI & SALES TAX EXTRA



AAAC - ALUMINIUM ALLOY STRANDED CONDUCTOR

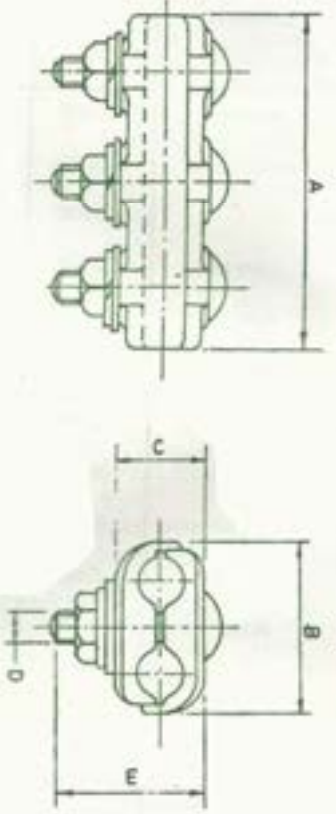
IS : 398 (Part IV) (DRAFT-1993)

AAAC equivalent uprating of ACSR	Stranding and Wire Dia mm	Sectional Area mm ²	Approx. Overall Dia mm	Approx. Mass. kg./km.	Calculated Resistance at 20°C (maximum) ohm/km	Approx. Calculated Breaking Load kN
SQUIRREL EQ	7/2.00	22.0	6.00	60.1	1.497	6.14
WEASEL EQ	7/2.50	34.4	7.50	94.0	0.958	9.60
RABBIT EQ	7/3.15	54.6	9.45	149.2	0.603	15.24
RACCOON EQ	7/3.81	79.8	11.43	218.3	0.412	22.30
DOG EQ	7/4.26	99.8	12.78	272.9	0.330	27.88
DOG UP-1	19/2.89	124.6	14.45	342.5	0.265	34.82
COYOTE EQ/DOG UP-2	19/3.15	148.1	15.75	406.9	0.223	41.37
WOLF EQ	19/3.40	172.5	17.00	474.1	0.192	48.20
WOLF UP	19/3.68	199.9	18.30	549.4	0.165	55.85
PANTHER EQ	19/3.94	231.7	19.70	636.7	0.143	64.73
PANTHER UP-1	37/3.15	288.3	22.05	794.1	0.115	80.57
PANTHER UP-2	37/3.45	345.9	24.15	952.6	0.096	96.64
KUNDAH EQ	37/3.71	400.0	25.97	1101.5	0.083	111.76
ZEBRA EQ	37/4.00	465.0	28.00	1280.5	0.071	129.91
ZEBRA UP	61/3.31	524.9	29.79	1448.6	0.063	138.94
MOOSE EQ	61/3.45	570.2	31.05	1573.7	0.058	150.95
MORKULLA EQ/MOOSE UP-1	61/3.55	603.8	31.95	1666.3	0.055	159.82
MORKULLA UP-1/MOOSE UP-2	61/3.66	641.8	32.94	1771.1	0.052	169.88
MORKULLA UP-2	61/3.81	695.5	34.29	1919.3	0.048	184.09
BERSEMIS EQ.	61/4.00	766.5	36.00	2115.5	0.043	202.91



ALL ALUMINIUM STRANDED CONDUCTORS

Codeword	Standard Nominal Copper Area		Stranding and Wire Diameter		Approx. wt. in Kg./Km	Current Carrying Capacity AMPS
	Sq.in	Sq. mm.	in	mm		
Rose	0.020	13	7/.077	7/1.96	58	137
Lily/Gnat	0.025	16	7/.087	7/2.21	73	160
	0.030	20	7/.096	7/2.44	89	180
Ladybird	0.040	25	7/.110	7/2.79	117	215
Ant	0.050	30	7/.122	7/3.10	144	250
Fly	0.060	40	7/.134	7/3.40	174	279
Bluebottle	0.070	45	7/.144	7/3.65	201	310
Earwig	0.075	48	7/.149	7/3.78	215	318
Grasshopper	0.080	50	7/.154	7/3.91	230	340
Clog	0.090	60	7/.164	7/4.17	261	370
Wasp	0.100	65	7/.173	7/4.39	290	365
	0.125	80	19/.118	19/3.00	369	475
	0.150	90	19/.125	19/3.18	414	500
	0.175	110	19/.139	19/3.53	511	575
	0.200	130	19/.149	19/3.78	596	622
	0.225	140	19/.157	19/3.99	652	665
	0.250	160	19/.166	19/4.22	730	745
	0.300	185	19/.183	19/4.65	886	838
	0.330	225	19/.197	19/5.00	1025	920
	0.400	260	19/.211	19/5.36	1176	1000
0.450	300	37/.161	37/4.09	1343	1080	
0.500	325	37/.168	37/4.27	1464	1145	



CONDUCTOR NAME	MAXIMUM CONDUCTOR DIAMETER MM	DIMENSIONS, MM					NO. OF BOLTS
		A	B	C	D	E	
WEASEL	10.11	79	48	22.2	12.7	44	2
DOG	14.45	95	57	30	12.7	51	2
WOLF	17.80	127	65	36	12.7	57	3
PANTHER	20.78	140	76	42	15.9	76	3
GOAT	23.95	152	86	47	15.9	76	3
ZEBRA	27.13	171	92	52	15.9	76	3
MOOSE	30.38	197	105	59	19.1	89	3

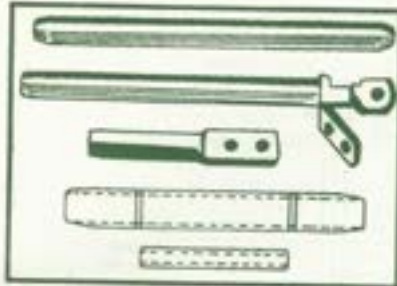
- TECHNICAL DATA**
- 1 MADE OF ALUMINUM
 - 2 ALL THE BOLTS NUT AND WASHER ARE HOT DIP GALVANISED
 - 3 WASHER ELECTRO GALVANISED
 - 4 NUT & BOLTS - G. I.
 - 5 PRICE ON REQUEST.

PARALLEL GROOVE CLAMP		TOLERANCE = ± 5%		DESIGN	
FOR AAAC/JCSR		STANDARD = IS : 5561	DRAWN		
		DRG. NO. JBEPL 802	CHECKED		
			APPROVED		

jaipuria brothers
Electricals Pvt. Ltd.



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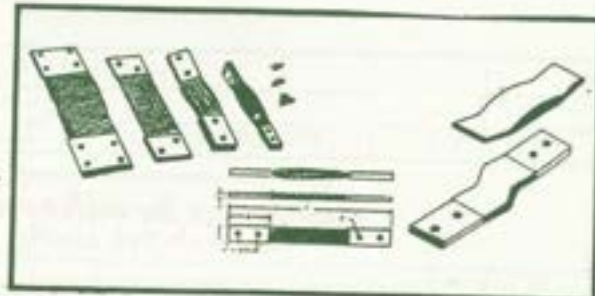
**"Jaipuria Brothers
Electricals Pvt. Ltd."**
Dead end assembly Midspan Joint

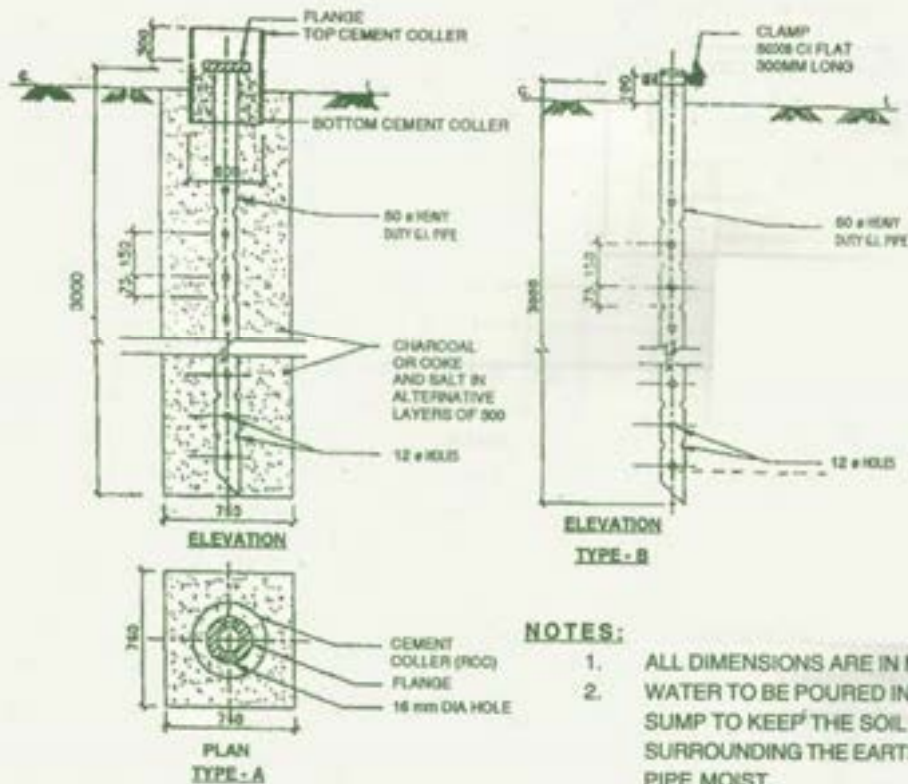
1.	*	Moose	Each	₹ 3840.00
2.	*	Zebra	*	₹ 3600.00
3.	*	Panther	*	₹ 3240.00
4.	Mid Span Joint Aluminium to Steel	Moose	*	₹ 1560.00
5.	Mid Span Joint Aluminium to Steel	Zebra	*	₹ 1440.00
6.	Mid Span Joint Aluminium to Steel	Panther	*	₹ 1200.00
7.	Single Tension Hardware	Panther	*	₹ 3000.00
8.	Double Tension Hardware	Panther	*	₹ 5400.00
9.	Single Tension Hardware	Zebra	*	₹ 4500.00
10.	Double Tension Hardware	Zebra	*	₹ 8400.00
11.	Single Tension Hardware	Moose	*	₹ 9600.00
12.	Double Tension Hardware	Moose	*	₹ 11400.00
13.	Vibration Dumper	Panther	*	₹ 900.00
14.	Vibration Dumper	Zebra	*	₹ 960.00
15.	Vibration Dumper	Moose	*	₹ 1320.00
16.	Ground Wire	*	*	₹ 600.00

N.B. : Subject to our confirmation

**"Jaipuria Brothers
Electricals Pvt. Ltd."**

**FLEXIBLE
Links t Jumpers**





PRICE ON REQUEST

NOTES:

1. ALL DIMENSIONS ARE IN MM
2. WATER TO BE POURED INTO SUMP TO KEEP THE SOIL SURROUNDING THE EARTH PIPE MOIST,
3. TYPE - A
FISSURED ROCK (GRD. TYPE - C)
HARD ROCK (GRD. TYPE - D)
TYPE - B
NORMAL WET SOIL (GRD - TYPE - A)
BLACK COTTON SOIL (GRD - TYPE - B)

				TENDER ORDER NO
REV	DATE	REV DESCRIPTION	UTS 95% OF CONDUCTOR UTS	DIMENSION IN mm
				DEG
				CHD
				APRD
SCALE	TITLE :- EARTH ELECTRODE			DRG. NO. JBEP/073
DATE				



FABRICATED & GALVANIZED STEEL STRUCTURES

H- POLE CROSS ARM



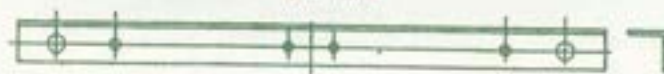
STEEL CROSSARM FOR WOODEN/STEEL POLES



CROSSARM FOR ISOLATORS & D.O. FUSES



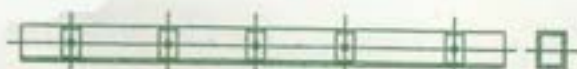
CROSSARM



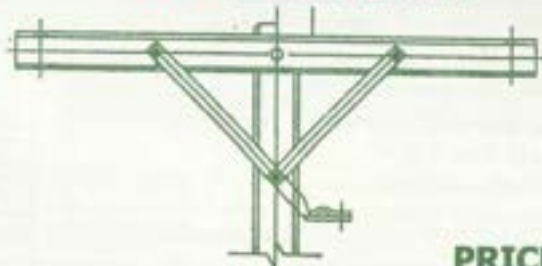
CHANNEL SECTION CROSSARM BOX TYPE



ANGLE SECTION CROSSARM BOX TYPE

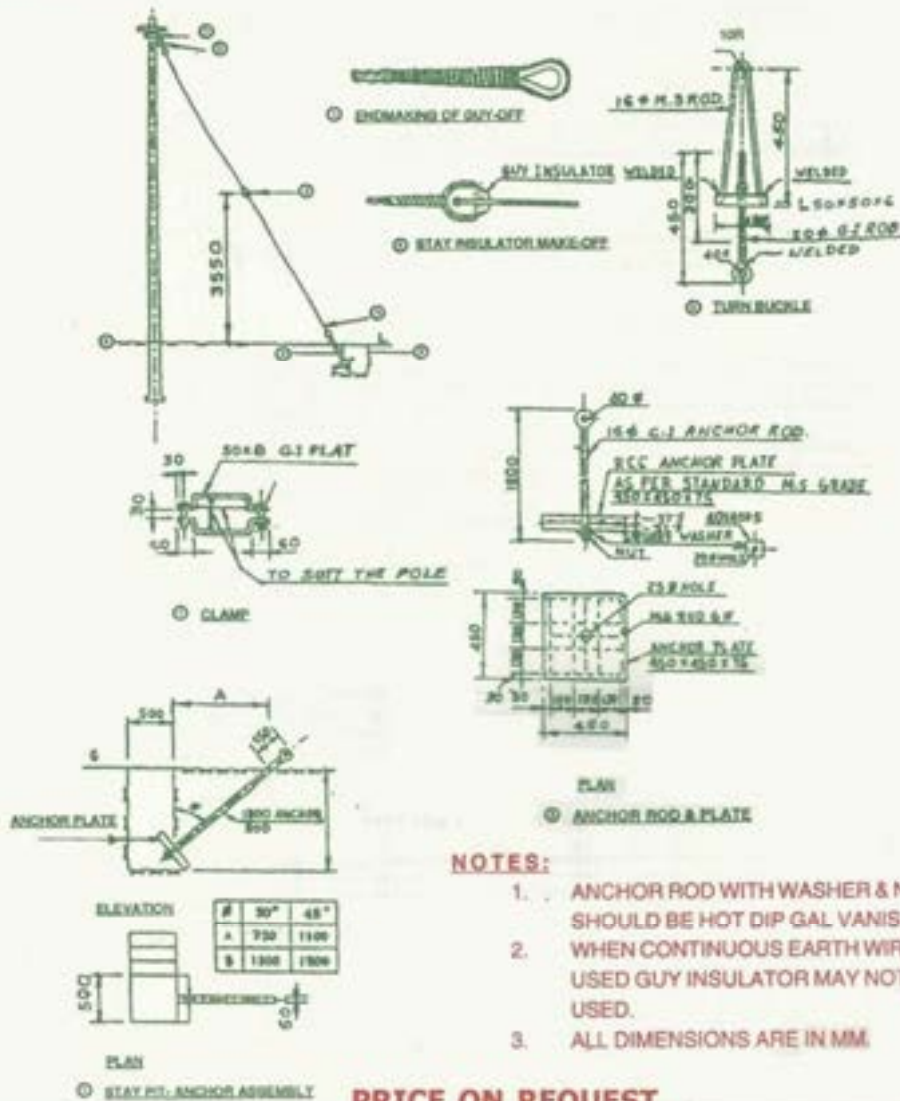


33 KV PIN CHANNEL IRON CROSSARM



(53)

PRICE ON REQUEST



NOTES:

1. ANCHOR ROD WITH WASHER & NUT SHOULD BE HOT DIP GAL VANISED.
2. WHEN CONTINUOUS EARTH WIRE IS USED GUY INSULATOR MAY NOT BE USED.
3. ALL DIMENSIONS ARE IN MM.

PRICE ON REQUEST

REV	DATE	REV DESCRIPTION	UTS 95% OF CONDUCTOR UTS	TENDER ORDER NO
				DIMENSION IN mm
				DEG
				CHD
				APRD
SCALE	TITLE :- GUY ASSEMBLY GENERAL ARRANGEMENT			DRG. NO. JBEP/0209
DATE				

Zinc Oxide Distribution Class Arrester



Advanced Metal Oxide Technologies



jaipuria brothers
Electricals Pvt. Ltd.

FEATURES

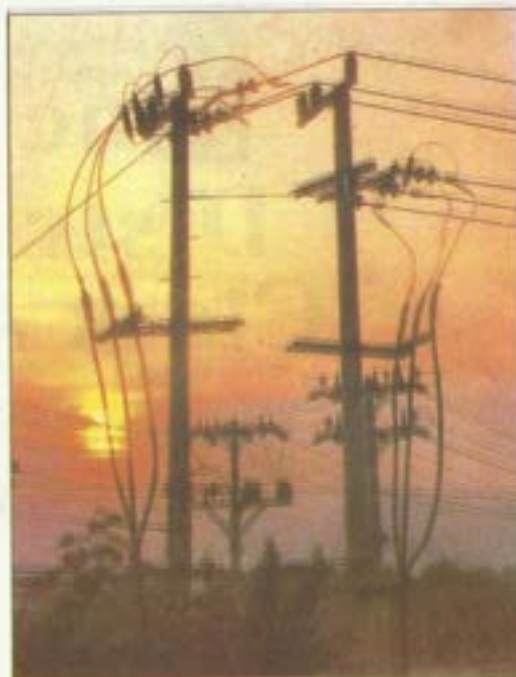
Zinc Oxide valve elements are composed of a specially formulated compound of ZnO and small amounts of other selected metal oxides. These ZnO elements maintain stable characteristics. Accelerated life tests show that arrester losses will not increase during an arrester's service life when exposed to a continuous steady state voltage. Also the low protective characteristics are maintained and equipment protection is never compromised.

WHY ONLY JAIPURIA BROTHER'S ELECTRICALS PVT. LTD. ARRESTERS?

- Characteristics of metal oxide resistors is such that excellent surge protection is obtained, while the current passed at continuous operating voltage is of approximately 1mA magnitude. This small and continuous current is predominantly capacitive and performs a useful voltage grading function, with negligible wattage dissipation.
- JBEPL range of surge arresters consist of a stack of Zinc Oxide discs encapsulated in heat shrinkable sleeve, arranged in a hermetically sealed porcelain housing, a combination which provides excellent protection characteristics and temporary over voltage capability.
- Reliability and durability are greatly enhanced by the fact that JBEPL gapless arresters have no follow current and constitute fewer components. Also, change in voltage distribution, often caused by the contamination of porcelain housing, does not give rise to any problems.
- Possibility of failure due to moisture ingress is eliminated through proper end sealing.
- Due to its compact size and minimum weight JBEPL arrester facilitates easy transportation and installation.

OPTIONAL ACCESSORIES DISCONNECTING DEVICE

Automatically Disconnects the arrester from the line if there is any internal failure in the arrester by the direct stroke of lightning surge. It also serves as a visual indication that the arrester needs replacement.



MOUNTING BRACKET

Name type mounting bracket, if required, for the pole mounted distribution arrester.

PRESSURE RELIEF DEVICE :

Class - C 10 kA rms
Class - E 5 kA rms

STANDARD :

- IS - 3070 (PT.3) 1993
- IEC 99-4/1991
- ANSI C62-11-1993

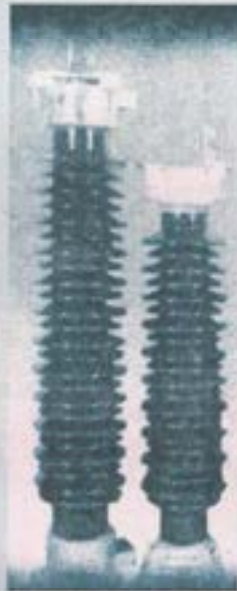
Notes

- Porcelain housing creepage - 16 to 50 mm/kV
- Drawings are to be referred for dimensional details and mounting clearances.
- Nominal discharge current : 5kAP Reference current : 1mA
- High current impulse withstand (4/10 sec) : 65 kAP



- Long duration current impulse withstand : 125 AP/2000 sec.
- Energy dissipation capability : 0.9 kJ/kV of rated voltage
- Watt loss : 0.10 W/kV

Technical Particulars of Jaipuria Brothers Electrical Pvt. Ltd.					
1) System voltage	36 KV	36 KV	24 KV	12 KV	12 KV
2) Rating of LA	36 KV	30 KV	18 KV	12 KV	9 KV
3) Discharge Class	II	II	II	II	II
4) Name of Manufacturer	Jaipuria Brothers Electrical Pvt. Ltd.				
5) Country of origin	India				
6) Reference Standard					
7) Manufacturer's type Destination	Mogard Station				
8) Arrester class	50 HZ				
9) Rated Frequency	10 KA				
10) Nominal discharge current					
11) Energy dissipation Capability cumulative operation (KJ/KV)	4.5	4.5	2.5	2.5	2.5
12) High current impulse withstand of 4/10us Wave Shape (KA)	100	100	100	100	100
13) Preference current of the arrester if ABM (mAP) temperature	2.25	2.25	1.5	1.5	1.5
14) Components of the continuous leakage current at cov Resistive - Microamps Peak Capacitive -	400	400	400	400	400
15) Watt loss at MCOV per KV of rated voltage (wKV)	1500	1500	1500	1500	1500
16) Pressure relief class	0.25	0.25	0.25	0.25	0.25
17) Cantilever Strength (Kg. Cm.)	A/40 KA	A/40 KA	A/40 KA	A/40 KA	A/40 KA
18) Continuous operating Voltage KV RMS	100,000	100,000	100,000	100,000	100,000
19) Max. residual voltage at lightning impulse of 8/20us wave KVP	30.5	25.5	15	10	7.65
5 KA	103	85	60	38	33
10 KA	110	90	65	40	35
20 KA	128	104	75	48	41
20) Max. residual voltage at switching current impulse of 30/60us @ 1000 AMP'S	87	71	52	32	28
21) Max. residual voltage at Steep front impulse at 10 KA	104	101	73	45	40
22) Minimum power frequency voltage on the arrester at REF current at ambient temperature	36-	30-	18-	12-	9-
23) Insulation level of housing					
a) Lightning impulse withstand voltage KVP	170	170	125	75	75
b) Switching impulse Withstand voltage KVP	-	-	-	-	-
c) Power frequency dry & wet withstand voltage	70	70	50	28	28
24) Temporary power frequency over voltage capability					
a) 0.1 Sec KV Peak	58	48	29	19	14
b) 1.0 Sec KV Peak	58	48	28	18	14
c) 10.0 Sec KV Peak	53	44	26	17	13
d) 100.0 Sec KV Peak	51	42	25	16	12
25) Creepage distance of arrester porcelain housing (MM)	900	900	600	300	300
26) No of units per pole	1	1	1	1	1





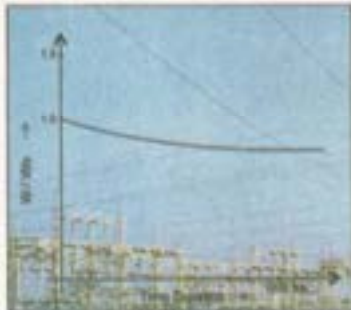
- Nominal discharge current : 10 kAP Reference current : 1.5 mA_P
- High current impulse withstand (4/10 μ sec) : 100 kAP
- Long duration current impulse withstand : 250 AP/2000 μ sec.
- Energy dissipation capability : 2 kJ/kV of rated voltage
- Watt loss : 0.10 W/kV

Rated Voltage (kVrms)	MCOV (kVrms)	Ref. Voltage (kVrms)	Discharge Voltage Characteristics (KVP)						Temporary Overvoltage Characteristics (kVrms)		
			Lighting Impulse 5/20 μ sec wave			Switching Impulse 30/60 μ sec		Steep Current 1/2 μ sec at NDC	0.1 sec	0.1 sec	10.0 sec
			5kAP	10kAP	30kAP	125 A	500 A				
3	2.35	3	16.5	11.0	14.5	6.00	8.50	12.5	3.70	3.50	3.40
6	5.10	6	21.0	22.0	28.5	16.0	12.5	24.5	7.40	7.10	6.80
9	7.65	9	30.0	31.5	41.0	22.5	24.0	35.0	11.0	10.8	10.1
12	10.2	12	40.0	42.0	54.0	30.0	32.0	47.0	14.7	14.1	13.5
15	12.7	15	50.0	52.5	68.0	38.0	40.0	58.0	18.4	17.7	16.9
18	15.3	18	58.5	63.0	82.0	45.0	48.0	70.0	22.1	21.2	20.3
21	17.0	21	62.5	66.0	85.0	47.0	50.0	73.0	25.8	24.7	23.7
24	19.5	24	73.0	77.0	100.0	55.0	58.0	85.0	29.4	28.2	27.0
27	22.0	27	79.0	83.0	107.0	59.0	63.0	92.0	33.2	31.8	30.4
30	24.4	30	90.0	95.0	123.0	70.0	72.0	105.0	36.8	35.3	33.8
36	29.0	36	110.0	116.0	150.0	82.0	88.0	128.0	44.2	42.4	40.6
42	34.0	42	113.0	120.0	155.0	85.0	91.0	132.0	51.5	49.4	47.3

NOTE : The above specifications conform to IEC 99-4/1991 Standard.

CHARACTERISTICS CURVES

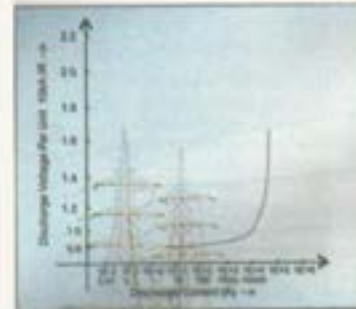
WATT LOSS RATIO V/S TIME



POWER LOSS V/S TIME IN THERMAL STABILITY



VI CHARACTERISTICS



Technical particulars are standard and subject to change without any notice due to continuous development activities.

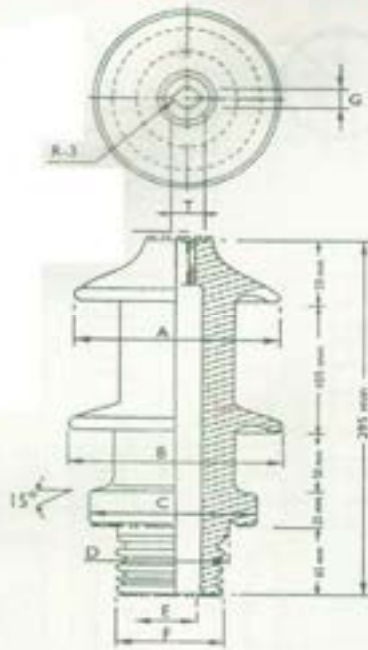
Prices of Distribution Lightning Arrestors	0.5/5KA Class	Rs.	400/- each
	1.5/5KA Make	Rs.	700/- each
	3 Kv/5KA	Rs.	1050/- each
	6 Kv/5KA	Rs.	2050/- each
	9 Kv/5KA	Rs.	2500/- each
	12 Kv/5KA	Rs.	5000/- each
	12 Kv/10KA	Rs.	6500/- each
	18 Kv	Rs.	8000/- each
	30 Kv/10KA	Rs.	15000/- each



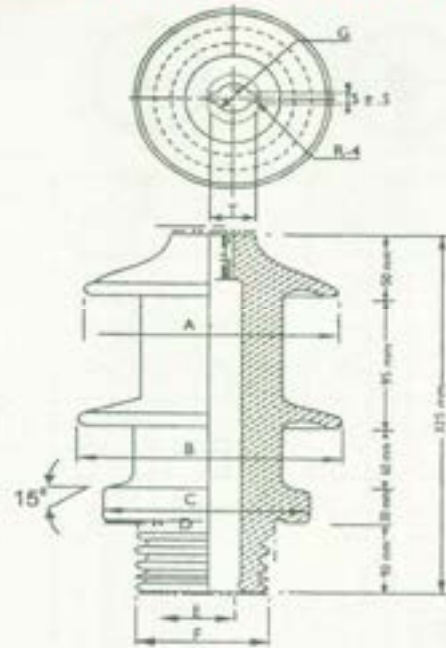


jaipuria brothers
Electricals Pvt. Ltd.

17.5 KV PORCELAIN TRANSFORMER BUSHINGS I.S.S. 3347



JB-51 / JB-52



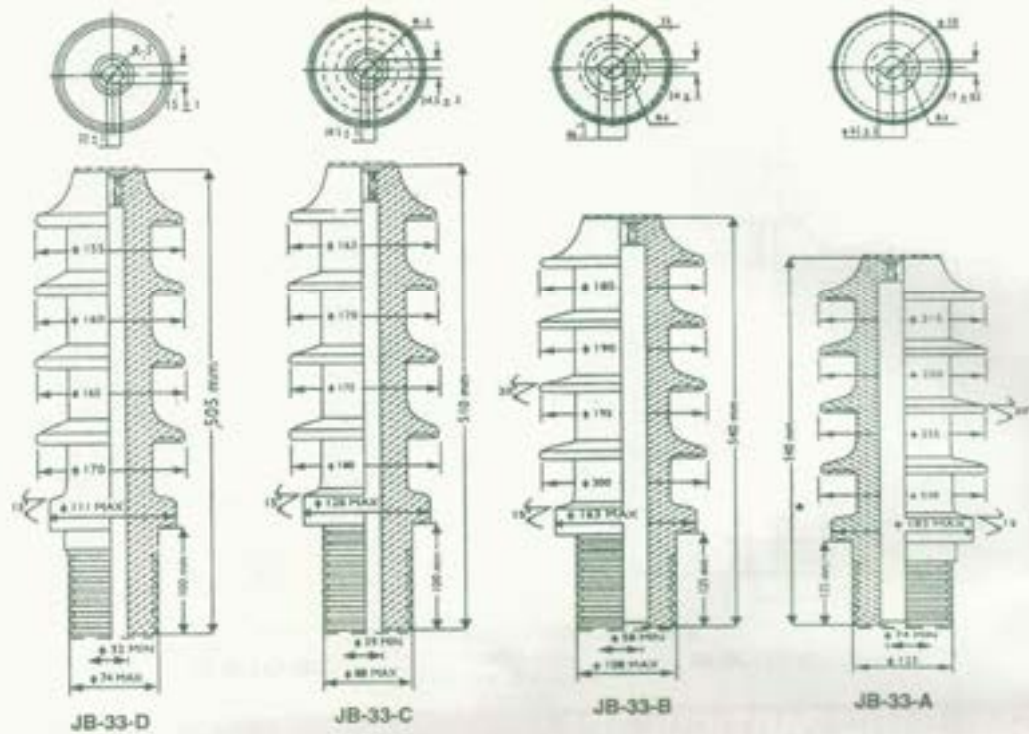
JB-53 / JB-54

STANDARD PARTICULARS

Product No.		JB-51	JB-52	JB-53	JB-54
Transformer Rating	kV/Amp.	12,17.5kV/ 250 Amp.	12,17.5kV/ 400 Amp.	12,17.5kV/ 1000 Amp.	12,17.5kV/ 2000 Amp.
Dimension	Dia A	mm 135	145	165	190
	Dia B	mm 140	150	170	190
	Dia C Max.	mm 111	128	166	183
	Dia D Max.	mm 74	88	108	131
	Dia E Min.	mm 32	39	58	74
	Dia F	mm 70	85	100	125
	Dia G	mm 15 ± 1	24.5 ± .5	32	50
	S	mm	12
	T	mm 22 ± 1	30.5 ± .5	46 ± .5	62 ± .5
Visible Discharge Voltage	kV	12	12	12	12
Power Frequency One Minute Withstand Voltage	Dry	kV 45	45	45	45
	Wet	kV 45	45	45	45
Impulse Withstand Voltage	kVP	95	95	95	95
Net Weight (Approx.)	kg	3.2	4.0	6.5	8
Specifications : IS : 3347 Part-III & IS : 2009					
Price		700/-	700/-	800/-	900/-



36KV PORCELAIN TRANSFORMER BUSHINGS I.S.S. 3347



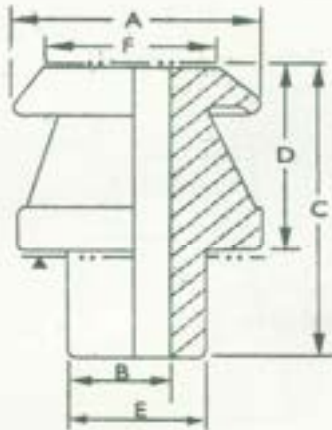
STANDARD PARTICULARS

Product No.		JB-33-A	JB-33-B	JB-33-C	JB-33-D
Transformer Rating	kV/Amp.	36 KV/ 250 Amp.	36 KV/630 630 Amp.	36 KV / 1000 Amp.	36 KV/1000 3150 Amp.
Visible Discharge Voltage	kV	27	27	27	27
Power Frequency One Minute Withstand Voltage	Dry	kV 75	75	75	75
	Wet	kV 75	75	75	75
Impulse Withstand Voltage	kVP	170	170	170	170
Net Weight (Approx.)	kg	8.0	9.0	11.5	13
Specifications : IS : 3347 Part-III & IS : 2009					
Price		2500/-	3500/-	4500/-	6500/-



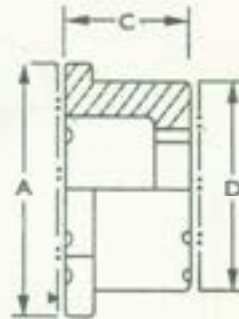
1.1 KV L. V. PORCELAIN TRANSFORMER BUSHINGS

I.S.S. 3347



(Upper Insulator)

I



(Lower Insulator)



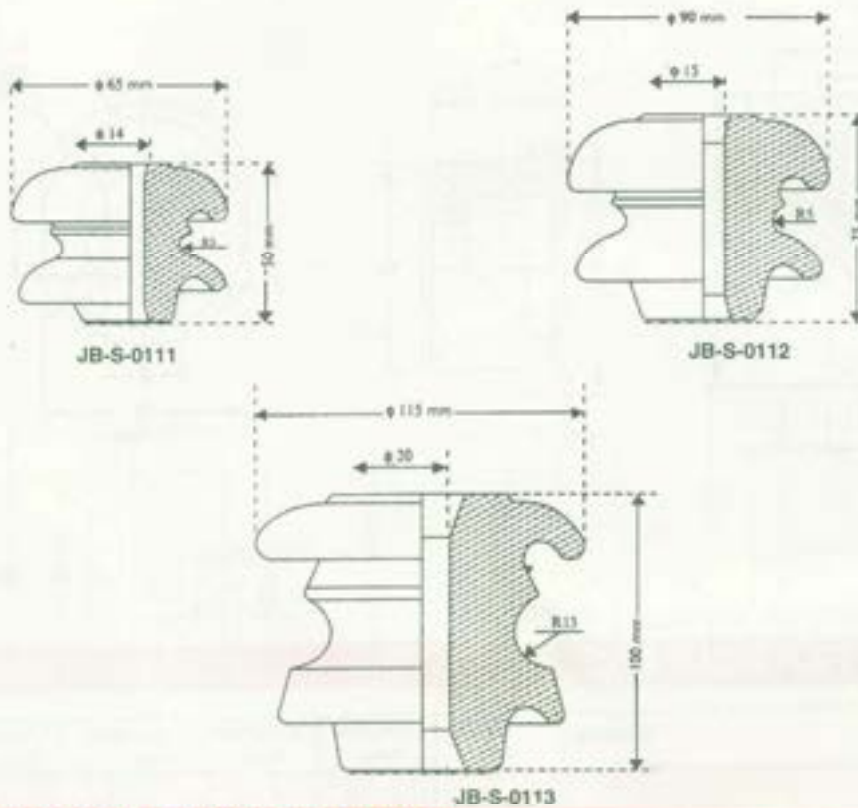
II

STANDARD PARTICULARS

Transformer Rating	kV/Amp.	1.1 kv/ 250 Amp.	1.1 Kv/400 Amp.	1.1 Kv/1000 Amp.	1.1 Kv/2000 Amp.	1.1 Kv/3150 Amp.
Part		I II	I II	I II	I II	I II
Dimension	A mm	50 60	70 85	90 110	104 125	125 150
	B mm	14 20	22 28	32 37	44 51	50 61
	C (Min) mm	70 30	80 30	85 35	85 35	85 35
	D mm	45 50	55 70	55 90	55 104	55 125
	E mm	27 26	43 41	53 46	66 64	66 80
	F mm	34 30	49 48	67 57	82 71	100 90
Power Frequency Withstand Voltage	Dry KV	12	12	12	12	12
	Wet KV	10	10	10	10	10
Net Weight (Approx.)	Kg	0.20 0.10	0.36 0.20	0.85 0.4	1.25 0.6	1.50 0.80
Specifications : IS : 3347 (Part I) & IS-7421						
Price		45/-	180/-	450/-	900/-	2250/-



PORCELAIN LOW TENSION SHACKLE INSULATORS I.S.S. 1445



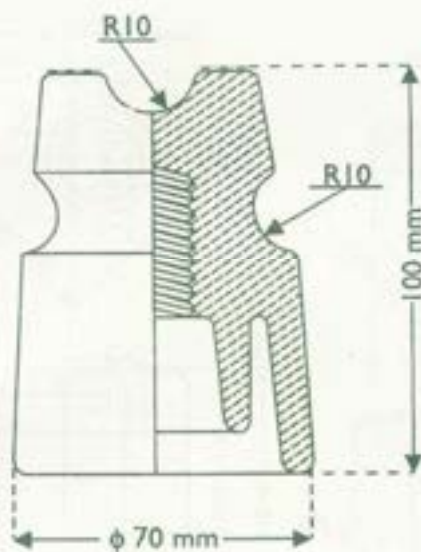
STANDARD PARTICULARS

Drawing No.		JB-S-0111	JB-S-0112	JB-S-0113
Type		IS Type 1	IS Type 2
Leakage Distance		mm 50	63	75
Power Frequency Withstand Voltage	Dry	KV 12	23	23
	Wet	KV 6	10	10
Power Frequency Puncture Voltage		KV 1.3 X Actual Dry F.O.V.	1.3 X Actual Dry F.O.V.	1.3 X Actual Dry F.O.V.
Mechanical Strength, Transverse Strength		KN 7.7	11.5	16.0
Net Weight (Approx.)				
Specifications : IS : 1445, AS : 1137, 3608		Kg 0.25	0.5	1.0
Price		18/-	22/-	60/-
Hardware		60/-	200/-	400/-

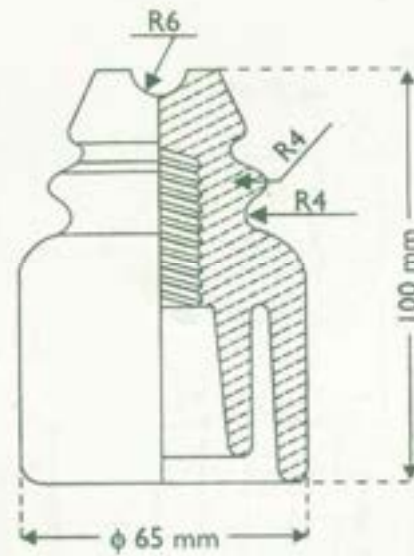


PORCELAIN LOW TENSION INSULATORS PIN TYPE

I.S.S. 1445



JB-70



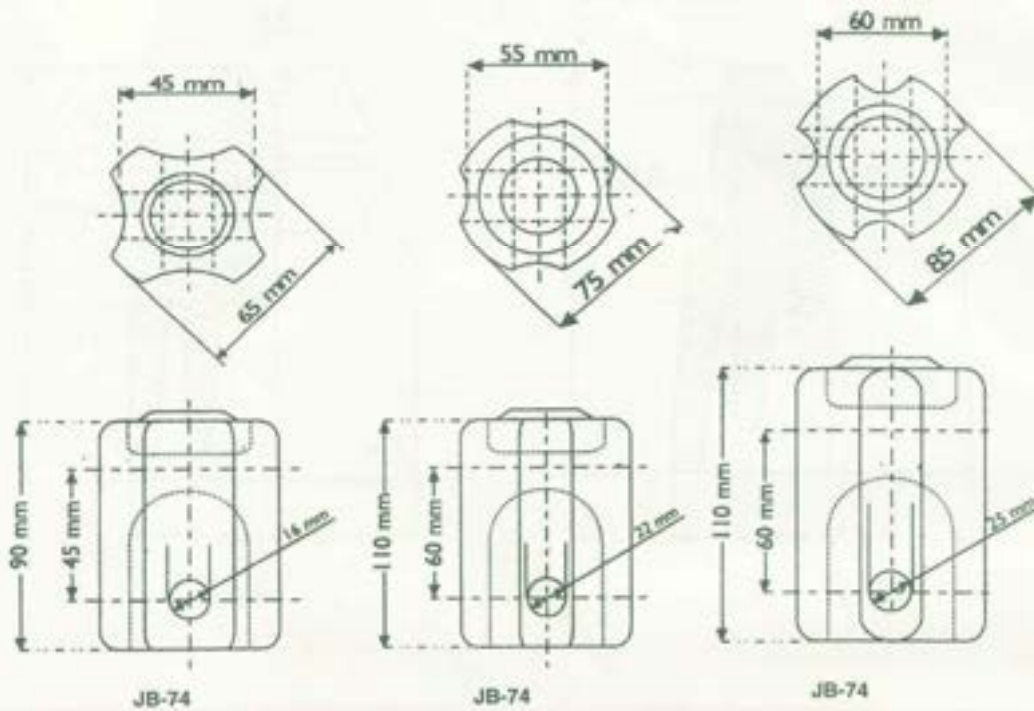
JB-71

STANDARD PARTICULARS

Drawing No.		JB-70	JB-71
Type		IS Type 1	IS Type 2
Creepage Distance		mm	185
Cantilever Strength		Kg (KN)	360 (3.6)
Power Frequency Withstand Voltage	Dry	KV	23
	Wet	KV	10
Power Frequency Puncture Voltage		KV	1.3 X Actual Dry F.O.V.
Net Weight (Approx.)			
Specifications : IS : 1445, AS : 1137, 3608		Kg	0.5
Price			15/-
Hardware			65/-



PORCELAIN GUY STAIN INSULATORS I.S.S. 5300

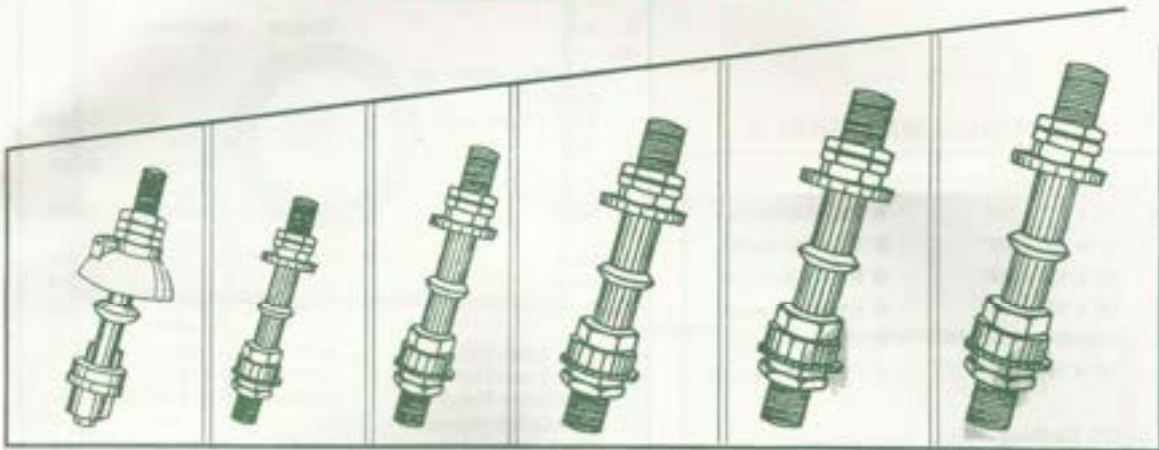


STANDARD PARTICULARS

Drawing No.		JB-74	JB-74	JB-74
Designation		A	B	C
Creepage Distance		mm 41	46	57
Power Frequency Withstand Voltage	Dry	KV 18	22	27
	Wet	KV 8	9	13
Tensile Strength		44	53	88
Net Weight (Approx.)		Kg 0.45	0.79	1.2
Specifications : IS : 1445, AS : 1137, 3608				
Price		22/-	45/-	67/-



TRANSFORMER MATERIAL

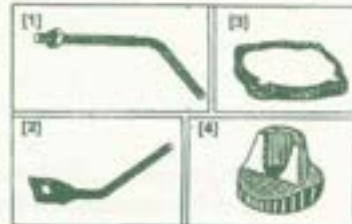


ITEM	BUSHING	BRASS SET STEM	COPPER SET STEM
1. 12 KV / 250 Amp. H.V. Brass Metal Part as per IS : 3347 / 1967	Rs. 350	Rs. 400	Rs. -----
2. 1.1 KV/250 Amp. L.V. Brass Metal Part as per IS : 3347 / 1967	40	450	650
3. 1.1 KV 400 Amp. L.V. Brass Metal Part as per IS : 3347 / 1967	130	1050	1900
4. 1.1 KV / 630 Amp. L.V. Brass Metal Part as per IS : 3347 / 1967	130	1400	2900
5. 1.1 KV / 1000 Amp. L.V. Brass Metal Part as per IS : 3347 / 1967	325	2900	4900
6. 1.1 KV / 2000 Amp. L.V. Brass Metal Part as per IS : 3347 / 1967	400	4400	6400
7. 1.1 KV/3150 Amp. L.V. Brass Metal Part as per IS : 3347 / 1967	750		8000

SILICAGEL BREATHER

	Rs.
63 kv.	275 Each
100 kv.	335 Each
250 kv.	725 Each
500 kv.	1300 Each
1000 kv.	2250 Each
1500 kv.	3000 Each
2500 kv.	3500 Each

ACCESSORIES	Noe/ Set	Rate Pcs
1. Ms. Upper Spark Gap Horn	1	12
2. Ms. Lower Spark Gap Horn	1	12
3. Ms. Clamp	1	30
4. Aluminum Clamping Member (Shoes)	4	40





EARTHING MATERIALS

1. Galvanised Earth Plates :

12" x 12" x 1/4"	@ Rs. 450/-each
12" x 12" x 1/2"	@ Rs. 650/-each
15" x 15" x 1/4"	@ Rs. 1100/-each
18" x 18" x 1/4"	@ Rs. 1200/-each
24" x 24" x 1/4"	@ Rs. 1800/-each
24" x 24" x 1/2"	@ Rs. 2200/- each

2. G.I. Earthing Strip :

Size	W/PM	
25 x 3 mm	800 gm	@ Rs. 110 Kg.
25 x 6 mm	122 gm	@ Rs. 130 Kg.
32 x 6 mm	1800 gm	@ Rs. 130 Kg.
40 x 6 mm	2000 gm	@ Rs. 130 Kg.
50 x 6 mm	2500 gm	@ Rs. 130 Kg.

3. G.I. Earthing Wire 8q @ Rs. 120 Kg

4. G.I. Stay Wire 7/10 @ Rs. 120 Kg.

G.I. Pipe with funnel	
5 Ft. long 3/4" dia.	@ Rs. 700/-each
5 Ft. long 40 mm dia.	@ Rs. 1100/-each

S. No.	Item	Copper	Aluminium	G.I.
	Weight of conductor Kg. MTR.			
1.	No. 14 SWG Wire	0.028	-	0.0254
2.	No. 12"	0.049	0.0162 (0.0162 (6 mm ²)	0.043 0.043
3.	No. 8"	0.1155	0.02703 (10 mm ²)	0.012
4.	No. 6"	0.1668	-	0.1456
5.	No. 4"	0.243	-	0.224
6.	No. .2	0.344	0.0945 (35 MM)	0.305
7.	25 x 3 mm Flat	0.670	0.202	0.590
8.	32 x 6 mm Flat	1.715	0.518	1.510
9.	50 x 6 mm Flat	2.680	0.810	2.360
10.	600x600x6 mm Thick Plate	19.30	5.83	17.00
11.	600x600x12 mm thick Plate	38.60	11.66	34.00

RECOMMENDED EARTH CONDUCTORS FOR MOTORS

1. Upto 15 HP	12 Swg. 6 mm ²	8 Swg.
2. Upto 20 to 30 HP	8 Swg. 10 mm ²	4 Wsg. 25x3
3. Upto 35 to 50 HP	4 Swg. 35mm ²	mm Flat
4. Above 50 HP	25x3 mm Flat	25x3 mm Flat 32x6 mm Flat

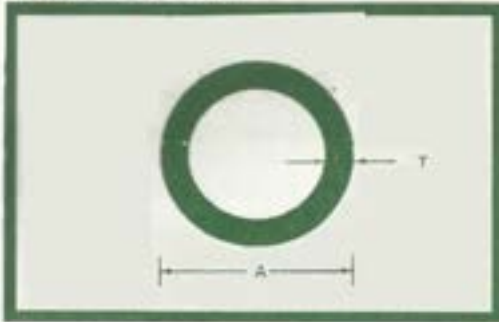
GALVANISED EARTHING DETAILS

G.I. Cond Size	Area MM2	Nominal Dia mm	Approx. Weight Kg/M.	Approx. Resistance Ohm/M.
14 SWG	3.24	2.03	0.026	0.0433
12 SWG	5.48	2.64	0.044	0.02566
10 SWG	8.35	3.26	0.067	0.0162
8 SWG	12.97	4.06	0.104	0.01063
4 SWG	27.27	5.89	0.218	0.00505
25 x 3 mm	75.00	-	0.600	0.0017
50 x 6 mm	300.00	-	2.400	0.0033

	G.I.	Painted
1/4 L.T. Stay Set's : 6" x 5/8" Rod, Plate Bow, Thimble Complete Plate size 6"x5" x 5 mm. Thickness	1000.00	800.00
2/5 H.T. Stay 6"x20mm Rod, Plate, Bow, Thimble Complete Plate size 12"x 12" x 5 mm. thickness .	1300.00	1200.00



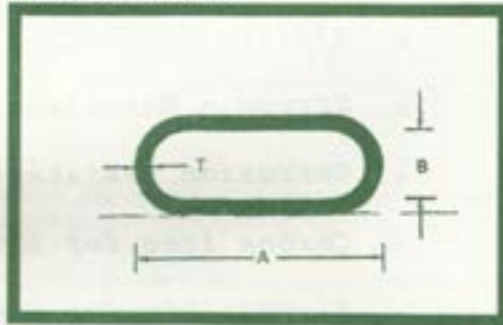
ELECTRICAL - BUS BARS



Sl. No.	A Outside Diameter	T Wall Thickness	Wt. Kg/ Metre	I.P.S. Size
Extra Heavy Size				
1.	48.26	5.08	1.860	1½"
2.	60.32	5.54	2.560	2"
3.	73.03	7.01	3.910	2½"
4.	88.90	7.62	5.250	3"
5.	114.30	8.56	7.700	4"
6.	127.00	9.017	9.000	4½"
(Nominal)				
7.	33.40	3.42	0.900	1"
8.	44.45	3.20	1.110	1½"
9.	48.26	3.68	1.400	1½"
10.	60.32	3.91	1.878	2"
11.	73.03	5.83	3.450	2½"
12.	88.90	5.50	3.890	3"
13.	101.60	5.74	4.660	3½"
14.	114.30	6.02	5.544	4"
15.	127.00	6.35	6.500	4½"

1. Sizes of tubes indicated here are nearest equivalent of I.P.S. Tubes in case exact equivalent of I.P.S. is required the same can also be extruded for which is necessary to indicate dimensions to us while placing orders.

OVAL TUBES - REGULAR



Sl. No.	A Longer Axis (Outer)	B Shorter Axis (Inner)	T Wall Thickness	Wt.Kg/ (Metre)
1.	14.35	5.79	1.65	0.150
2.	15.25	6.35	1.65	0.158
3.	17.50	7.50	1.60	0.188
4.	19.10	8.30	1.60	0.200
5.	19.30	6.72	2.84	0.337
6.	20.30	9.10	1.60	0.214
7.	22.30	9.90	1.66	0.235
8.	24.20	11.10	1.60	0.257
9.	26.20	11.90	1.60	0.280
10.	26.60	9.28	3.91	0.640
11.	28.60	13.30	1.60	0.307
12.	29.70	10.35	4.37	0.855
13.	31.40	14.70	1.60	0.343
14.	32.40	11.32	4.74	0.940
15.	34.95	16.30	1.60	0.380
16.	36.21	12.75	5.37	1.160
17.	41.34	19.05	1.62	0.453
18.	47.69	22.23	1.62	0.523



jaipuria brothers
Electricals Pvt. Ltd.

POWER CONNECTORS

FOR ALL TYPES OF ELECTRICAL APPLICATIONS

- ★ *Reliable*
- ★ *Efficient*
- ★ *Strong - Electrically & Mechanically*
- ★ *Corrosion resistant*
- ★ *Corona free for EHV system*
- ★ *Bi-metallic for dissimilar materials*
- ★ *Conforming to IS : 5561 - 1970*
- ★ *Groove to accommodate binding wire of conductor*

jaipuria brothers
Electricals Pvt. Ltd.

MANUFACTURES OF :-
DROPOUT FUSE - G.O.A.B. SWITCH
FUSE ELEMENTS STAY SETS
HT AND LT LINE SPECIALIST
CLAMPS & CONNECTORS



DESIGN PRINCIPLES

1. The connectors are manufactured for voltages up to 400 KV and currents up to 3200 Amps.
2. Materials : For Aluminium alloy connectors, Aluminium Alloy 4600 (A6) to IS : 617-1975 and for Copper alloy connectors, Brass grade 3 of IS : 292 - 1961 are used. M.S. Galvanised bolts and units with plain and spring washers are used for fastening. On specific requirements, stainless steel fasteners could also be provided. For expansion type connectors Copper laminations are used upto 132 KV and stranded Aluminium Conductors welded to connectors are used for 220 & 400 KV.
3. The connectors are designed with adequate cross section to withstand the loads imposed on them during installation as well as during service conditions. The current Paths are short and as far as possible direct. The bolting arrangement is such that the pressure is uniformly distributed over the whole contact surface.
4. Whenever Aluminium and Copper are joined together, Aluminium - Copper bimetallic strips are provided or the Aluminium connectors are coated with copper to prevent galvanic corrosion.
5. Corona free connectors are offered for 220 KV and 400 KV Systems. By providing a smooth surface and general radii on the outer surface of the connectors, the voltage gradient is reduced to avoid visual corona and radio interference.
6. Connectors meant for stranded conductors are provided with adequate space at the end of the conductors groove to accommodate the binding wire put at the end of the conductors.
7. For connectors on post insulators, the mounting holes are slotted, for minor adjustment during installations.

TESTING

The connectors are tested at approved laboratories or as per IS : 5561 - 1970. Normally the following test will be conducted.

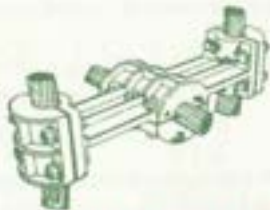
1. Temperature rise test
2. Tensile Test (Slip Test)
3. Millivolt drop Test (Resistance Test)
4. Galvanising Test
5. Short Time Current Test.



T-CONNECTOR



T-CONNECTOR



T-CONNECTOR



T-CONNECTOR



P.G. CLAMP

INTRODUCTION

JAIPURIA BROTHERS is one of the leading manufacturer of POWER CONNECTORS for extra high voltage Sub-station.

Products are being manufactured under the Keen, Control of technical hands having deep experience of 35 years in the field JAIPURIA BROTHERS moto is to provide quality products to the customers, it is maintained by adopting test latest techniques of modern engineering design, workmanship and result of our R & D work simultaneously.

JAIPURIA BROTHERS power connectors posses :

- VARIETY of Connectors for tubular and stranded Conductors to clamp with Circuit Breakers, Isolators, Power transformers, Current transformers, Potential transformers, Lightning Arrestors, etc.
- For every TYPE of busbar works, Whether it is all Copper, all Aluminium or combination installation (Bimetallic).
- DESIGN varying from smallest size to bulkhead, adjustment in nature and may be employed with switchgears and equipments of any make.
- COMBINATION of every conceivable arrangement and range for connecting tube conductor, conductor to conductor or tube to tube of all sizes capacities, either expansion type or rigid type.
- RANGE includes for any voltage upto 400KV and any current rating upto 2500 Amps.
- Provide un-interrupted SERVICE under all load and weather conditions.
- Life as long as the life of associated Conductors.
- All similar components are INTERCHANGABLES to facilitate easy installation.

POWER CONNECTORS FOR 400 KV SYSTEM

The design and shapes of these Power Connectors are made free from CORONA. To eliminate this effect -

- The overall shapes of connector bodies are round or elliptical.
- All the sharp edges and corners made round off.
- All the bolt heads & nuts etc. are engraved in connector body.
- Outer surface smoothly polished by buffing.

JAIPURIA BROTHERS CONNECTOR

- Made from Aluminium Alloy according to IS-617 : 1975 and Conforms to IS-5561 : 1970.
- Employed Bolts, Nuts and Washer of heavy duty size section conforms to IS-3063.
- Parts to be connected with equipment terminals or tubes are machine finished in appropriate shapes & size.



P.G. CLAMP



T-CONNECTOR



PAD CONNECTOR



T-CONNECTOR



EXPANSION TYPE CONNECTOR

DESIGN PRINCIPLES

JAIPURIA BROTHERS connector sections are heavy enough to carry electrical loads and to withstand the mechanical forces imposed during installation as well as those developed under service conditions or short circuit or expansion contraction due to temperature variations.

The current path in the connectors is as short and direct as possible, achieve

JAIPURIA BROTHERS power connectors possess :

- VARIETY of Connectors for tubular and stranded Conductors to clamp with Circuit Breakers, Isolators, Power transformers, Current transformers, Potential transformers, Lightning Arrestors, etc.
- For every TYPE of busbar works, Whether it is all Copper, all Aluminium or combination installation (Bimetallic)
- DESIGN varying from smallest size to bulkhead, adjustment in nature and may be employed with switchgears and equipments of any make.
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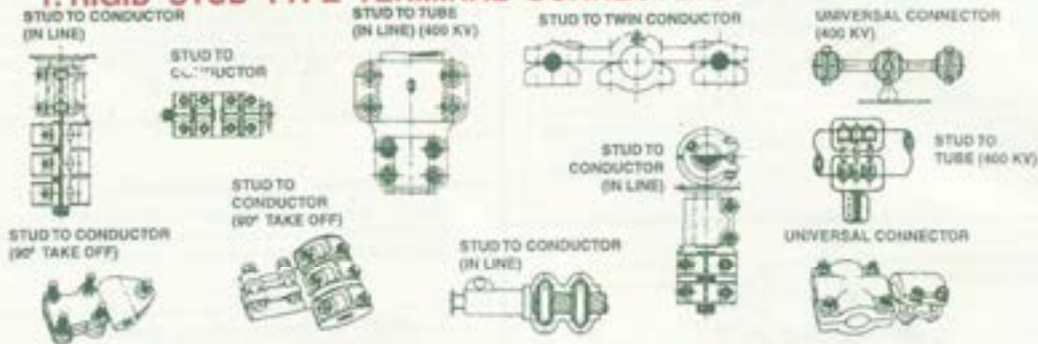
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JAIPURIA BROTHERS CONNECTOR

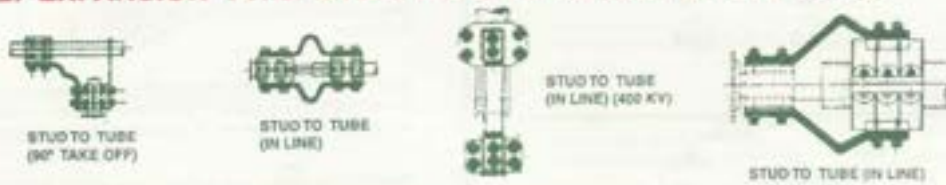
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- Employed Bolts, Nuts and Washer of heavy duty fabric section conforms to IS-3063.
- Parts to be connected with equipment terminals or tubes are machine finished in appropriate shapes & sizes.



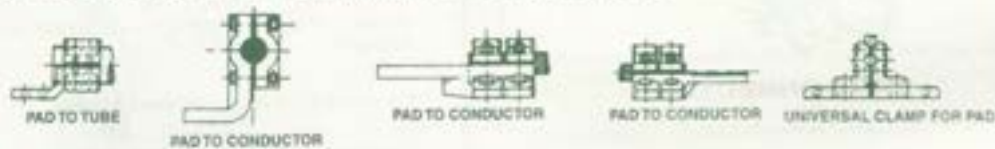
1. RIGID STUD TYPE TERMINAL CONNECTORS



2. EXPANSION TYPE STUD TYPE TERMINAL CONNECTORS



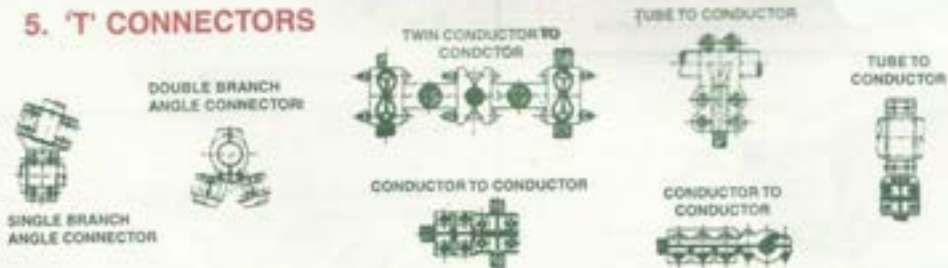
3. RIGID PAD TYPE TERMINAL CONNECTORS



4. EXPANSION TYPE PAD TYPE TERMINAL CONNECTORS



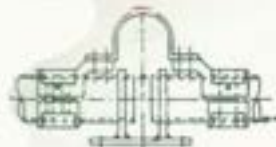
5. 'T' CONNECTORS





Electrical Power Connectors

6. BUS SUPPORT CLAMPS



EXPANSION BUS COUPLER



VERTICAL BUS SUPPORT
WITH ANGULAR TAP



FIXED / SLIDING TYPE

7. GROUNDING CONNECTORS

TUBE TO TWIN
CONDUCTOR



FLAT / CONDUCTOR
CLAMP



DUCK BILL CLAMP



FLEXIBLE BRADING



DUCK BILL CLAMP



ROD TO TWIN CONDUCTOR



CONDUCTOR TO FLAT



4 WAY GROUND CONNECTOR



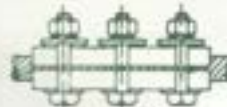
HOT LINE CLAMP



8. PARALLEL GROOVE CLAMPS



HEAVY DUTY APPLICATION

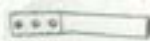


GENERAL PURPOSE



SINGLE BOLTED

9. COMPRESSION TYPE CONNECTORS



LOOP CONNECTOR



FOR STUD TYPE TERMINAL
(90° TAKEOFF)



FOR PAD TYPE TERMINAL



FOR STUD TYPE TERMINAL

10. MISCELLANEOUS

SPACER



WELDING SLEEVE



TRIFOL CLAMPS



SPACER



CORONA BELL (EXTERNAL)



RIGID COUPLER





jaipuria brothers
Electricals Pvt. Ltd.



H. O. : P. B. 9401
Bangalore-560094

केन्द्रीय विद्युत अनुसंधान संस्थान

(भारत सरकार की एक सोसाइटी)
संघीय परीक्षण प्रयोगशाला
गhaziabad (उत्तर प्रदेश)

CENTRAL POWER RESEARCH INSTITUTE

(GOVERNMENT OF INDIA SOCIETY)
REGIONAL TESTING LABORATORY
GHAZIABAD (U. P.)

दिए : _____

Telegram : POWERSERCH
टेलीफोन : (0675) 920016
Telephone : (0675) 720098

RTL/CC/97/07 / 1370

Date: 31/01/97.

M/s. Jaipuria Brothers,
1820, Bhagirath Palace,
Chandni Chowk, Delhi - 110 006.

Sub: Testing of Bus Bar

Sir,

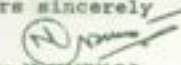
With reference to your requisition letter dated 20/01/97 on the above subject, kindly find enclosed herewith the Test Report No. RTL/CC/97/07 for the test conducted on your Bus Bar.

Any anomalies/descrepancies in the test report issued should be brought to the notice of CPRI within one month.

Please acknowledge the receipt.

Thanking you and assuring you of your best services.

Yours sincerely


Dr. N. VANVARI
(JOINT DIRECTOR)

Encl: Test Report.

Office : B-7/204, Raj Nagar, Ghaziabad-201 002. Phone : 0575-720098
Laboratory : NTPC's C.S.E.S. Campus, Rowly Road, Village-Sarna, Muradnagar. Phone : 05775-51284, 51744, 51745



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**CENTRAL POWER RESEARCH INSTITUTE
REGIONAL TESTING LABORATORY
MURADNAGAR**

PAGE 1 OF 3

TEST REPORT

1. Test Report No & Date : RTL/CC/97/07, 31/01/97
2. Client, his reference and address : M/s. Jaipuria Brothers,
1820, Bhagirath Palace,
Chandni Chowk, Delhi - 110 006.
3. Manufacturer, his reference & address : M/s. Jaipuria Brothers,
1820, Bhagirath Palace,
Chandni Chowk, Delhi - 110 006.
4. Particulars of apparatus tested : Aluminium Tubular Bus Bar with
Connectors.

Rated Current : 2600 A.
Drawing No(s). : JB/ATTH-4030 and JB/ASTT-4040.
5. Date(s) of test(s) : 21/01/97.
6. No. of samples tested : One.
7. Test in accordance with Standard/Specification : IS:5561-1970.

Client's requirement : ---
Deviations if any : ---
8. Name's of witnessing persons
Client's representatives : Mr. Rajiv Jain.

Other than client's representatives : Mr. P.K. Chandraker, CEGELEC.

P. K. Chandraker
ENGINEERING OFFICER

(N) [Signature]
JOINT DIRECTOR
Central Power Research Institute
Regional Testing Laboratory
MURADNAGAR
GHAZIABAD-201002 (U.P.)



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**CENTRAL POWER RESEARCH INSTITUTE
REGIONAL TESTING LABORATORY
MURADNAGAR**

Test Report No.: RTL/CC/97/07

Page 2 OF 3

9. Documents constituting this Report

No. of pages	: Three
No. of oscillograms	: ---
No. of drawings	: Two
No. of graphs	: ---
No. of photos	: ---

R. L. S. S. S.
ENGINEERING OFFICER

N. N. N.
JOINT DIRECTOR
Central Power Research Institute
Regional Testing Laboratory
27004 Raj Naga
GHAZIABAD-201002 (U.P.)

NOTE:

- This is not a certificate of compliance.
- The test results relate only to the items tested.
- Publications or reproduction of this test report in any form other than by complete set of whole report and in the language written, is not permitted without the written consent of CPRI.
- Corrections/erasings invalidate the test report.



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**CENTRAL POWER RESEARCH INSTITUTE
REGIONAL TESTING LABORATORY
MURADNAGAR**

Test Report No.: RTL/CC/97/07

Page 3 OF 3

Test Conducted

IS Requirement

1. TEMPERATURE RISE TEST

The Test was conducted in accordance with clause 12 of IS:5561-1970 on Power Connectors. The Test was performed at 2600 Amps. The temperature of the Bus Bar was measured at Body, Aluminium Straight Tee Tubing Main to Tubing Tap Type ATTH and Aluminium Straight Coupler Tube to Tube Type ASTT.

Starting Time : 01.30 PM.

Ending Time : 03.30 PM.

Temperatures are in Degree Centigrade.

Time (Hrs)	Ambient Temp.	Body Temp.	ASTT Temp.	ATTH Temp.
13.30	17.8	17.8	17.8	17.8
14.00	18.1	35.2	32.5	33.1
14.30	18.2	37.5	36.3	37.6
15.00	18.0	38.4	37.9	38.2
15.30	18.0	39.1	38.7	38.8

REMARKS : The Temperature Rise is within the specified limits of IS.

Rudhira
ENGINEERING OFFICER

N. N. N.
JOINT DIRECTOR
Central Power Research Institute
Regional Testing Laboratory
MURADNAGAR
GHAZIABAD-201002 (U.P.)



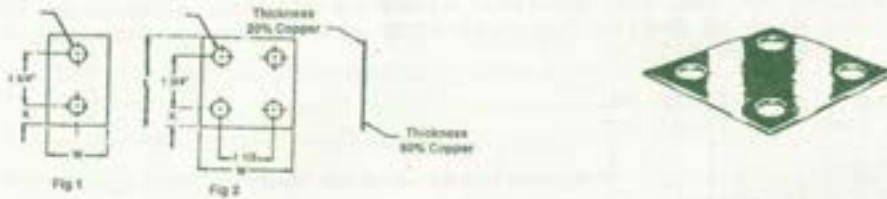
SUBSTATION CONNECTORS
BI-METALLIC TRANSITION PLATE
TYPE TP

SECTION G

BI-METALLIC
JB-B

Bi-metallic transition plate for making aluminium to copper connections between flat NEMA drilled tongues and bars. Aluminium plate and copper sheet are molecularly bonded. Total thickness is 1/16". Contact sealant is recommended.

Material : 80% aluminium
20% copper



CATALOG NUMBER	FIG NO.	DIMENSIONS - INCHES (MM)			APPROX WT EACH LBS. (KG)
		L	K	W	
JB-B	1	3 (76.2)	6/8 (15.88)	1 1/2 (38.1)	.05 (.02)
JB-B2	1	3 (76.2)	5/8 (15.88)	2 (50.8)	.06 (.03)
JB-C	2	3 (76.2)	5/8 (15.88)	3 (76.2)	.09 (.04)
JB-D	2	4 (101.6)	1 1/8 (28.58)	4 (101.6)	.11 (.05)



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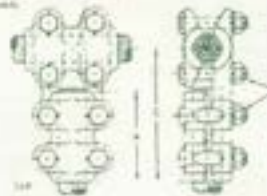
SUBSTATION CONNECTORS

ALUMINUM STRAIGHT TEE CABLE MAIN TO CABLE TAP TYPE JBFG

ALUMINUM
JBFG

Aluminum alloy, cable to cable, tee for connecting aluminum-aluminum or aluminum-copper conductor combination. Clamping bolts have hex-stops for one-wrench installation. Contact sealant is recommended.

Material : Casting—356-T6 aluminum alloy
Hardware—aluminum alloy



CATALOG NUMBER	CONDUCTOR RANGE				DIMENSIONS - INCHES (MM)				APPROX. WT. EACH LBS. KG.
	CABLE MAIN		CABLE TAP		C	A	W	J	
	AAC	ACSR	AAC	ACSR					
JBFG-96			350-600 MCM	#4-40 STR	4 1/2 (114.3)	3 (76.2)	3 1/4 (82.55)	1/2 (12.7)	1.1 (.50)
JBFG-97	350-600 MCM	336.4-477 MCM	250-400 MCM	4/0-336.4 MCM	4 1/2 (114.3)	3 (76.2)	3 1/4 (82.55)	1/2 (12.7)	1.1 (.50)
JBFG-99	350-600 MCM	336.4-477 MCM	350-600 MCM	336.4-477 MCM	4 3/4 (120.65)	3 1/4 (82.55)	3 1/4 (82.55)	1/2 (12.7)	1.1 (.50)
JBFG-116			#450L-250 MCM	#4-40 SS	4 5/8 (117.48)	3 (76.2)	3 1/2 (88.9)	1/2 (12.7)	1.2 (.54)
JBFG-117	600-900 MCM	556.5-795 MCM	250-400 MCM	4/0-336.4 MCM	4 5/8 (117.48)	3 (76.2)	3 1/2 (88.9)	1/2 (12.7)	1.2 (.59)
JBFG-119			350-600 MCM	336.4-477 MCM	4 7/8 (123.82)	3 1/4 (82.55)	3 1/2 (88.9)	1/2 (12.7)	1.3 (.59)
JBFG-1111			600-900 MCM	556.5-795 MCM	5 1/8 (130.18)	3 1/4 (82.55)	3 1/2 (88.9)	1/2 (12.7)	1.4 (.64)
JBFG-136			#450L-250 MCM	#4-40 SS	4 3/4 (120.65)	3 (76.2)	3 3/4 (95.25)	1/2 (12.7)	1.7 (.77)
JBFG-137			250-400 MCM	4/0-336.4 MCM	4 3/4 (120.65)	3 (76.2)	3 3/4 (95.25)	1/2 (12.7)	1.8 (.82)
JBFG-139	900-1250 MCM	715.5-1113 MCM	350-600 MCM	336.4-477 MCM	5 (127.0)	3 1/4 (82.55)	3 3/4 (95.25)	1/2 (12.7)	2.0 (.91)
JBFG-1311			600-900 MCM	556.5-795 MCM	5 1/4 (133.35)	3 1/2 (88.9)	3 3/4 (95.25)	1/2 (12.7)	2.1 (.95)
JBFG-1313			900-1250 MCM	715.5-1113 MCM	5 1/2 (139.7)	3 3/4 (95.25)	3 3/4 (95.25)	1/2 (12.7)	2.2 (1.0)
JBFG-156			#450L-250 MCM	#4-40 SS	4 7/8 (123.82)	3 (76.2)	4 1/4 (107.95)	1/2 (12.7)	2.1 (.95)
JBFG-157			250-400 MCM	4/0-336.4 MCM	4 7/8 (123.82)	3 (76.2)	4 1/4 (107.95)	1/2 (12.7)	2.2 (1.0)
JBFG-159	1250-1600 MCM	1113-1272 MCM	350-600 MCM	336.4-477 MCM	5 1/8 (130.18)	3 1/4 (82.55)	4 1/4 (107.95)	1/2 (12.7)	2.3 (1.04)
JBFG-1511			600-900 MCM	556.5-795 MCM	5 3/8 (136.52)	3 1/2 (88.9)	4 1/4 (107.95)	1/2 (12.7)	2.4 (1.09)
JBFG-1513			900-1250 MCM	715.5-1113 MCM	5 5/8 (142.88)	3 3/4 (95.25)	4 1/4 (107.95)	1/2 (12.7)	2.4 (1.09)
JBFG-1515			1250-1600 MCM	1113-1272 MCM	6 1/4 (158.75)	4 1/4 (107.95)	4 1/4 (107.95)	5/8 (15.88)	2.5 (1.13)
JBFG-166			#450L-250 MCM	#4-40 SS	4 3/4 (120.65)	3 (76.2)	4 1/2 (114.3)	1/2 (12.7)	2.4 (1.09)
JBFG-167			250-400 MCM	4/0-336.4 MCM	5 (127.0)	3 (76.2)	4 1/2 (114.3)	1/2 (12.7)	2.6 (1.18)
JBFG-169			350-600 MCM	336.4-477 MCM	5 1/4 (133.35)	3 1/4 (82.55)	4 1/2 (114.3)	1/2 (12.7)	2.9 (1.32)
JBFG-1511	1500-2000 MCM	1272-1590 MCM	600-900 MCM	556.5-795 MCM	5 1/2 (139.7)	3 1/2 (88.9)	4 1/2 (114.3)	1/2 (12.7)	3.1 (1.41)
JBFG-1613			900-1250 MCM	715.5-1113 MCM	5 3/4 (146.05)	3 3/4 (95.25)	4 1/2 (114.3)	1/2 (12.7)	3.5 (1.59)
JBFG-1615			1250-1600 MCM	1113-1272 MCM	6 3/8 (161.82)	4 1/4 (107.95)	4 1/2 (114.3)	5/8 (15.88)	3.7 (1.68)
JBFG-1616			1500-2000 MCM	1272-1590 MCM	6 5/8 (168.28)	4 1/2 (114.3)	4 1/2 (114.3)	5/8 (15.88)	4.0 (1.81)
JBFG-1618	2000-2500 MCM	1.602-1.824 IN.	2000-2800 MCM	1.602-1.824 IN.	6 7/8 (174.62)	4 3/4 (120.65)	5 3/4 (120.65)	5/8 (15.88)	4.4 (2.0)



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Electricals Pvt. Ltd.

SUBSTATION CONNECTORS
ALUMINUM STRAIGHT BOLT TERMINAL
TUBE TO FLAT
TYPE JBAB



ALUMINUM
JBAB

Aluminum alloy terminal for connecting aluminum or copper tubing to aluminum or copper flat pad combinations. Side formed tongues are standard to allow clearance for flush mounting. Clamping bolts have hex-stops for one-wrench installation. Tongue holes have NEMA spacing. Contact sealant is recommended.

Material: Castings—356-T6 aluminum alloy Clamping hardware—aluminum alloy

Note: To Specify Bonded copper liner on tongue, add "C" to catalog number; example: JBAB

Centre formed pads may be obtained by adding suffix-CF to the catalog number; example: JBAB

Angle connectors may be obtained by specifying desired angle and contact surface as illustrated. Add contact surface letter and required angle to catalog number; example: JBAB

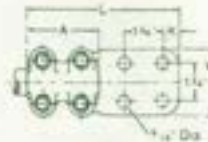


FIG. 2

CATALOG NUMBER	FIG. NO.	CONDUCTOR SIZE TUBING IPS / EHIPS	DIMENSIONS - INCHES (MM)							APPROX. WT. EACH LBS. KG.
			L	A	C	K	T	W	J	
JBAB - 04-B	1	1/2	5 7/8 (149.2)	2 1/2 (63.5)	1 3/8 (34.92)	5/8 (15.88)	5/16 (7.94)	1 1/2 (38.1)	1/2 (12.7)	1
JBAB - 06-B2	1	3/4	5 7/8 (149.2)	2 1/2 (63.5)	1 3/8 (34.92)	5/8 (15.88)	1/2 (12.7)	2 (50.8)	1/2 (12.7)	1.2 (.5)
JBAB - 06-C	2	3/4	5 3/4 (146.05)	2 1/2 (63.5)	1 3/8 (34.92)	5/8 (15.88)	3/8 (9.52)	3 (76.2)	1/2 (12.7)	1.2 (.5)
JBAB - 10-B2	1	1	6 1/8 (155.6)	2 3/4 (69.85)	1 3/8 (34.92)	5/8 (15.88)	1/2 (12.7)	2 (50.8)	1/2 (12.7)	1.5 (.7)
JBAB - 10-C	2	1	6 (152.4)	2 3/4 (69.85)	1 3/8 (34.92)	5/8 (15.88)	3/8 (9.52)	3 (76.2)	1/2 (12.7)	1.5 (.7)
JBAB - 12-B2	1	1 1/4	6 1/4 (158.75)	3 (76.2)	1 5/8 (41.28)	5/8 (15.88)	3/8 (9.52)	2 (50.8)	1/2 (12.7)	1.6 (.7)
JBAB - 12-C	2	1 1/4	6 1/4 (158.75)	3 (76.2)	1 5/8 (41.28)	5/8 (15.88)	3/8 (9.52)	3 (76.2)	1/2 (12.7)	1.6 (.7)
JBAB - 14-B2	1	1 1/2	6 1/2 (165.1)	3 1/4 (82.55)	1 1/2 (38.1)	5/8 (15.88)	7/16 (11.11)	2 (50.8)	1/2 (12.7)	1.7 (.8)
JBAB - 14-C	2	1 1/2	6 1/2 (165.1)	3 1/4 (82.55)	1 1/2 (38.1)	5/8 (15.88)	1/2 (12.7)	3 (76.2)	1/2 (12.7)	1.9 (.9)
JBAB - 20-B2	1	2	6 7/8 (174.6)	3 1/2 (89.9)	1 3/4 (44.45)	5/8 (15.88)	7/16 (11.11)	2 (50.8)	1/2 (12.7)	2.0 (.9)
JBAB - 20-C	2	2	6 7/8 (174.6)	3 1/2 (89.9)	1 3/4 (44.45)	5/8 (15.88)	7/16 (11.11)	376.2 (101.6)	1/2 (12.7)	2.2 (1.0)
JBAB - 20-D	2	2	7 3/4 (196.85)	3 1/2 (89.9)	1 3/4 (44.45)	1 1/8 (28.58)	3/8 (9.52)	4 (101.6)	1/2 (12.7)	2.4 (1.1)
JBAB - 24-B2	1	2 1/2	7 1/8 (181.0)	3 3/4 (95.25)	2 1/4 (57.15)	5/8 (15.88)	9/16 (14.29)	2 (50.8)	5/8 (15.88)	3.0 (1.4)
JBAB - 24-C	2	2 1/2	7 1/4 (184.15)	3 3/4 (95.25)	2 1/4 (57.15)	5/8 (15.88)	9/16 (14.29)	3 (76.2)	5/8 (15.88)	3.3 (1.5)
JBAB - 24-D	2	2 1/2	8 (203.2)	3 3/4 (95.25)	2 1/4 (57.15)	1 1/8 (28.58)	9/16 (14.29)	4 (101.6)	5/8 (15.88)	3.4 (1.5)
JBAB - 30-C	2	3	7 9/16 (192.1)	4 (101.6)	2 3/4 (69.85)	5/8 (15.88)	5/8 (15.88)	3 (76.2)	5/8 (15.88)	4.3 (1.9)
JBAB - 30-D	2	3	8 9/16 (217.5)	4 (101.6)	2 3/4 (69.85)	1 1/8 (28.58)	5/8 (15.88)	4 (101.6)	5/8 (15.88)	4.7 (2.1)
JBAB - 34-C	2	3 1/2	7 3/4 (196.85)	4 1/4 (107.95)	3 1/4 (82.55)	5/8 (15.88)	3/4 (19.05)	3 (76.2)	5/8 (15.88)	4.2 (1.9)
JBAB - 34-D	2	3 1/2	8 5/8 (219.1)	4 1/4 (107.95)	3 1/4 (82.55)	1 1/8 (28.58)	5/8 (15.88)	4 (101.6)	5/8 (15.88)	4.5 (2.1)
JBAB - 40-C	2	4	7 3/4 (196.85)	4 1/4 (107.95)	3 1/2 (89.9)	5/8 (15.88)	3/4 (19.05)	376.2 (101.6)	5/8 (15.88)	4.9 (2.2)
JBAB - 40-D	2	4	8 1/2 (215.9)	4 1/4 (107.95)	3 1/2 (89.9)	1 1/8 (28.58)	3/4 (19.05)	4 (101.6)	5/8 (15.88)	5.6 (2.5)
JBAB - 50-D	2	5	10 1/4 (260.36)	5 (127.0)	3 1/8 (86.42)	1 1/8 (28.58)	1 (25.4)	4 (101.6)	5/8 (15.88)	8.4 (3.8)
JBAB - 50-D	2	6	10 3/4 (273.06)	6 (152.4)	4 3/8 (111.12)	1 1/8 (28.58)	1 (25.4)	4 (101.6)	5/8 (15.88)	10.1 (4.6)



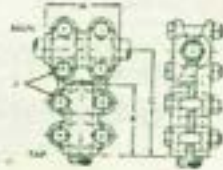
jaipuria brothers
Electricals Pvt. Ltd.

SUBSTATION CONNECTORS

ALUMINUM
JBHI



ALUMINUM STRAIGHT TEE TUBING MAIN TO CABLE TAP TYPE JBHI



Aluminum alloy, tubing to cable, tee for connecting aluminum-aluminum or aluminum-copper conductor combinations. Clamping bolts have hex-stops for one wrench installation. Contact sealant is recommended.

Material: Castings—356-T6 aluminum alloy

Hardware—aluminum alloy

CATALOG NUMBER	TUBING MAIN IPS/EHIPS	CONDUCTOR RANGE CABLE TAP			DIMENSIONS - INCHES (MM)				APPROX. WT. EACH LBS. KG.
		AAC	ACSR	DIA.	C	A	W	J	
*JBHI-066	3/4	44-250 MCM	44-4/0 Str.	232-.575 (5.89-14.6)	4 5/8 (117.48)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.3 (.59)
JBHI-067	3/4	250-400 MCM	40-336.4 MCM	.563-.744 (14.3-18.9)	4 5/8 (117.48)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.4 (.52)
JBHI-069	3/4	350-600 MCM	336.4-477 MCM	.681-.893 (17.3-22.68)	4 7/8 (123.82)	3 1/4 (82.55)	2 1/2 (63.5)	1/2 (12.7)	1.4 (.52)
JBHI-0811	3/4	600-900 MCM	336.4-477 MCM	.870-1.180 (22.1-26.14)	5 1/8 (130.18)	3 1/2 (88.9)	2 1/2 (63.5)	1/2 (12.7)	1.4 (.52)
*JBHI-106	1	44-250 MCM	44-4/0 Str.	232-.575 (5.89-14.6)	4 3/4 (120.65)	3 (76.2)	2 3/4 (69.85)	1/2 (12.7)	1.3 (.59)
JBHI-107	1	250-400 MCM	40-336.4 MCM	.563-.744 (14.3-18.9)	4 5/8 (117.48)	3 (76.2)	2 3/4 (69.85)	1/2 (12.7)	1.4 (.52)
JBHI-109	1	350-600 MCM	336.4-477 MCM	.681-.893 (17.3-22.68)	5 (127.0)	3 1/4 (82.55)	2 3/4 (69.85)	1/2 (12.7)	1.5 (.68)
JBHI-1011	1	600-900 MCM	336.4-477 MCM	.870-1.180 (22.1-26.14)	5 1/4 (133.35)	3 1/2 (88.9)	2 3/4 (69.85)	1/2 (12.7)	1.7 (.77)
JBHI-126	1 1/4	44-250 MCM	44-4/0 Str.	232-.575 (5.89-14.6)	5 (127.0)	3 (76.2)	3 (76.2)	1/2 (12.7)	1.4 (.52)
JBHI-127	1 1/4	250-400 MCM	40-336.4 MCM	.563-.744 (14.3-18.9)	5 (127.0)	3 1/4 (82.55)	3 (76.2)	1/2 (12.7)	1.5 (.68)
JBHI-129	1 1/4	350-600 MCM	336.4-477 MCM	.681-.893 (17.3-22.68)	5 1/4 (133.35)	3 1/2 (88.9)	3 (76.2)	1/2 (12.7)	1.5 (.68)
JBHI-1211	1 1/4	600-900 MCM	336.4-477 MCM	.870-1.180 (22.1-26.14)	5 1/2 (139.7)	4 1/4 (107.95)	3 (76.2)	1/2 (12.7)	1.5 (.68)
JBHI-146	1 1/2	44-250 MCM	44-4/0 Str.	232-.575 (5.89-14.6)	5 (127.0)	3 (76.2)	3 1/4 (82.55)	1/2 (12.7)	2.2 (1.0)
JBHI-147	1 1/2	250-400 MCM	40-336.4 MCM	.563-.744 (14.3-18.9)	5 (127.0)	3 (76.2)	3 1/4 (82.55)	1/2 (12.7)	2.3 (1.04)
JBHI-149	1 1/2	350-600 MCM	336.4-477 MCM	.681-.893 (17.3-22.68)	5 1/4 (133.35)	3 1/4 (82.55)	3 1/4 (82.55)	1/2 (12.7)	2.4 (1.09)
JBHI-1411	1 1/2	600-900 MCM	336.4-477 MCM	.870-1.180 (22.1-26.14)	5 1/2 (139.7)	3 1/2 (88.9)	3 1/4 (82.55)	1/2 (12.7)	2.5 (1.13)
JBHI-1413	1 1/2	900-1250 MCM	715.5-1113 MCM	1.081-1.293 (27.46-32.84)	6 3/4 (166.05)	3 3/4 (95.25)	3 1/4 (82.55)	1/2 (12.7)	3.2 (1.45)
JBHI-1415	1 1/2	1250-1600 MCM	1113-1272 MCM	1.289-1.459 (32.74-37.06)	6 1/4 (158.75)	4 1/4 (107.95)	3 1/4 (82.55)	1/2 (12.7)	3.3 (1.5)
JBHI-206	2	44-250 MCM	44-4/0 MCM	232-.575 (5.89-14.6)	5 1/2 (139.7)	3 (76.2)	3 3/4 (95.25)	1/2 (12.7)	2.0 (.9)
JBHI-207	2	250-400 MCM	40-336.4 MCM	.563-.744 (14.3-18.9)	5 3/8 (136.52)	3 (76.2)	3 1/2 (88.9)	1/2 (12.7)	2.1 (.95)
JBHI-209	2	350-600 MCM	336.4-477 MCM	.681-.893 (17.3-22.68)	5 8/8 (142.88)	3 1/4 (82.55)	3 1/2 (88.9)	1/2 (12.7)	2.2 (1.0)
JBHI-2011	2	600-900 MCM	336.4-477 MCM	.870-1.180 (22.1-26.14)	5 7/8 (149.22)	3 1/2 (88.9)	3 1/2 (88.9)	1/2 (12.7)	3.3 (1.50)
JBHI-2013	2	900-1250 MCM	715.5-1113 MCM	1.081-1.293 (27.46-32.84)	6 1/8 (155.56)	3 3/4 (95.25)	3 1/2 (88.9)	1/2 (12.74)	3.5 (1.59)
JBHI-2015	2	1250-1600 MCM	1113-1272 MCM	1.289-1.459 (32.74-37.06)	6 3/4 (171.45)	4 1/4 (107.95)	3 1/2 (88.9)	1/2 (12.7)	3.1 (1.43)
JBHI-2016	2	1500-2000 MCM	1272-1990 MCM	1.382-1.832 (35.10-41.45)	7 (177.8)	4 1/4 (107.95)	3 1/2 (88.9)	1/2 (12.7)	3.8 (1.7)
JBHI-247	2 1/2	44-250 MCM	44-4/0 MCM	.563-.744 (14.3-18.9)	5 5/8 (142.88)	3 (76.2)	3 1/2 (88.9)	1/2 (12.7)	2.4 (1.09)
JBHI-249	2 1/2	250-400 MCM	40-336.4 MCM	.681-.893 (17.3-22.68)	5 3/8 (142.88)	3 1/4 (82.55)	3 3/4 (95.25)	1/2 (12.7)	2.9 (1.32)



SUBSTATION CONNECTORS

ALUMINUM CORONA END PLUG FOR ALUMINUM TUBING TYPE JBAI

ALUMINUM
JBAI

Aluminum internal corona end plug for reducing electrostatic loss and enclosing tubing end. plug is designed for drive-fit with tapered internal fingers.

Material : 356-T6 aluminum alloy

Note : To specify extra heavy (schedule 80, EHIPS) tubing, add "H" to catalog number; example: JBAI H-12



CATALOG NUMBER	ALUMINUM CONDUCTOR SIZE TUBING IPS	DIMENSIONS—INCHES (MM)			APPROX. WT. EACH LBS. (KGS)
		L	A	W	
JBAI-06	3/4	1 1/4 (31.75)	1 (25.4)	1 1/8 (26.99)	.11 (.05)
JBAI-10	1	1 1/2 (38.1)	1 (25.4)	1 5/16 (33.34)	.25 (.09)
JBAI-12	1 1/4	2 1/8 (53.98)	1 1/4 (31.75)	1 11/16 (42.86)	.13 (0.3)
JBAI-14	1 1/2	2 1/4 (57.15)	1 1/2 (38.1)	1 15/16 (49.21)	.18 (.08)
JBAI-20	2	2 1/2 (63.5)	1 1/2 (38.1)	2 3/8 (60.32)	.25 (.11)
JBAI-24	2 1/2	2 3/4 (69.85)	1 3/4 (44.45)	2 7/8 (73.02)	.46 (.21)
JBAI-30	3	3 1/4 (82.55)	2 (50.8)	3 1/2 (88.9)	.78 (.35)
JBAI-34	3 1/2	3 1/2 (88.9)	2 1/4 (57.15)	4 (101.6)	.89 (.40)
JBAI-40	4	3 3/4 (95.25)	2 1/4 (57.15)	4 1/2 (114.3)	1.2 (.54)
JBAI-44	4 1/2	3 3/4 (95.25)	2 1/4 (57.15)	5 (127.0)	1.4 (.64)
JBAI-50	5	4 (101.6)	2 1/2 (63.5)	5 5/16 (141.29)	1.7 (.77)
JBAI-50	5	4 1/4 (107.905)	2 3/4 (69.85)	6 5/8 (168.28)	2.2 (1.0)



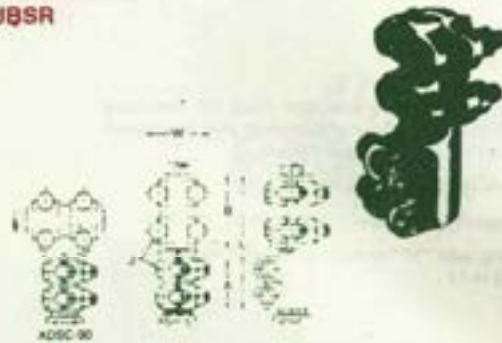
SUBSTATION CONNECTORS
ALUMINUM STUD CONNECTOR
STUD TO CABLE
TYPE JBSR

ALUMINUM
JBSR

Aluminum alloy stud connector for connecting aluminum cable to aluminum or copper equipment stud. Clamping bolts have hex-stops for one-wrench installation. Contact sealant is factory installed in connector stud threads and is recommended for conductor installation.

Material : Casting-356 T6 aluminum alloy
Hardware-aluminum alloy

Note : (1) To specify 90° connector, add "-90" to catalog number;
example : JBSR-1113-90-12.



CATALOG NUMBER	STUD DIA/THD.	CONDUCTOR RANGE			DIMENSIONS - INCHES (MM)					APPROX. WT. EACH LBS. (KG)
		AAC	ACSR	DIA.	L	A	B	W	J	
JBSR-045-13	1/2-13	#4 Str-250 MCM	#4-40 Str.	232-375 (5.89-14.60)	5.314 (146.05)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.0 (.45)
JBSR-065-16	3/4-16	#4 Str-350 MCM	#4-40 Str.	232-375 (5.89-14.60)	5.314 (146.05)	2 (50.8)	3 (76.2)	2 (50.8)	1/2 (12.7)	1.0 (.45)
JBSR-067-16	3/4-16	250-400 MCM	40-336.4 MCM	553-744 (14.30-18.90)	5.314 (146.05)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.1 (.50)
JBSR-106-14	1-14	#4 Str-350 MCM	#4-40 Str.	232-375 (5.89-14.60)	5.58 (142.88)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.1 (.50)
JBSR-107-14	1-14	250-400 MCM	40-336.4 MCM	536-744 (14.30-18.90)	5.58 (146.05)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.2 (.54)
JBSR-109-14	1-14	350-600 MCM	336-477 MCM	661-893 (17.30-22.68)	5.78 (149.22)	2 (50.8)	3 1/4 (82.55)	2 3/4 (69.85)	1/2 (12.7)	1.4 (.64)
JBSR-116-12	1 1/8-12	#4 Str-250 MCM	556-795 MCM	607-875 (15.05-14.60)	6.34 (162.00)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.2 (.54)
JBSR-117-12	1 1/8-12	250-400 MCM	40-336.4 MCM	553-744 (14.30-18.90)	6.34 (162.00)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.3 (.58)
JBSR-119-12	1 1/8-12	336-477 MCM	336-477 MCM	661-893 (17.30-22.68)	6.34 (162.00)	2 1/8 (50.8)	3 1/4 (82.55)	2 3/4 (69.85)	1/2 (12.7)	1.5 (.72)
JBSR-1111-12	1 1/8-12	600-900 MCM	556-795 MCM	870-1108 (22.10-28.14)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 (76.2)	1/2 (12.7)	1.9 (.86)
JBSR-1113-12	1 1/8-12	900-1250 MCM	715-1113 MCM	1106-1293 (28.14-32.84)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 1/4 (82.55)	1/2 (12.7)	2.3 (1.0)
JBSR-125-12	1 1/4-12	#4 Str-350 MCM	#4-40 Str.	232-375 (5.89-14.60)	6.34 (162.00)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.2 (.54)
JBSR-127-12	1 1/4-12	250-400 MCM	40-336.4 MCM	553-744 (14.30-18.90)	6.34 (162.00)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.3 (.58)
JBSR-129-12	1 1/4-12	350-600 MCM	336-477 MCM	661-893 (17.30-22.68)	6.74 (171.76)	2 (50.8)	3 1/4 (82.55)	2 3/4 (69.85)	1/2 (12.7)	1.6 (.72)
JBSR-1211-12	1 1/4-12	600-900 MCM	556-795 MCM	870-1108 (22.10-28.14)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 (76.2)	1/2 (12.7)	1.9 (.86)
JBSR-1213-12	1 1/4-12	900-1250 MCM	715-1113 MCM	1106-1293 (28.14-32.84)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 1/4 (82.55)	1/2 (12.7)	2.4 (1.1)
JBSR-127-12	1 1/2-12	250-400 MCM	40-336.4 MCM	553-744 (14.30-18.90)	6.34 (162.00)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.3 (.58)
JBSR-148-12	1 1/2-12	350-600 MCM	336-477 MCM	661-893 (17.30-22.68)	6.74 (171.76)	2 (50.8)	3 1/4 (82.55)	2 3/4 (69.85)	1/2 (12.7)	1.6 (.72)
JBSR-1411-12	1 1/2-12	600-900 MCM	556-795 MCM	870-1108 (22.10-28.14)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 (76.2)	1/2 (12.7)	2.0 (.91)
JBSR-1413-12	1 1/2-12	900-1250 MCM	715-1113 MCM	1106-1293 (28.14-32.84)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 1/4 (82.55)	1/2 (12.7)	2.4 (1.0)
JBSR-1416-12	1 1/2-12	1500-2000 MCM	1275-1580 MCM	1380-1632 (35.10-41.45)	7.14 (181.10)	2 (50.8)	4 1/2 (114.3)	3 1/2 (88.9)	1/2 (12.7)	2.8 (1.2)
JBSR-167-12	1 3/4-12	250-400 MCM	40-336.4 MCM	553-744 (14.30-18.90)	6.74 (171.76)	2 (50.8)	3 (76.2)	2 1/2 (63.5)	1/2 (12.7)	1.5 (.68)
JBSR-169-12	1 3/4-12	350-600 MCM	336-477 MCM	661-893 (17.30-22.68)	6.74 (171.76)	2 (50.8)	3 1/4 (82.55)	2 3/4 (69.85)	1/2 (12.7)	1.7 (.77)
JBSR-1613-12	1 3/4-12	900-1250 MCM	715-1113 MCM	1106-1293 (28.14-32.84)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 1/4 (82.55)	1/2 (12.7)	2.2 (1.0)
JBSR-209-12	2-12	350-600 MCM	336-477 MCM	661-893 (17.30-22.68)	6.74 (171.76)	2 (50.8)	3 1/4 (82.55)	2 3/4 (69.85)	1/2 (12.7)	1.6 (.72)
JBSR-2011-12	2-12	600-900 MCM	556-795 MCM	870-1108 (22.10-28.14)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 (76.2)	1/2 (12.7)	2.3 (1.04)
JBSR-2013-12	2-12	900-1250 MCM	715-1113 MCM	1106-1293 (28.14-32.84)	6.74 (171.76)	2 (50.8)	3 1/2 (88.9)	3 1/4 (82.55)	1/2 (12.7)	2.8 (1.2)
JBSR-2015-12	2-12	1250-1600 MCM	1113-1272 MCM	1280-1459 (32.74-37.00)	7 (177.8)	2 (50.8)	4 1/4 (107.95)	3 3/8 (86.2)	1/2 (12.7)	3.1 (1.41)



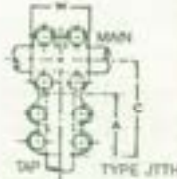
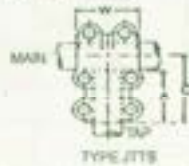
SUBSTATION CONNECTOR

ALUMINUM STRAIGHT TEE TUBING MAIN TO TUBING TAP TYPE JTTS & JTTH

Aluminum alloy tubing to tubing, tee for connecting aluminum - aluminum or aluminum - copper conductor combinations. Clamping bolts have hex - stops for one-wrench installation. Contact sealant is recommended.

Material: Castings—356-T6 aluminum alloy
Hardware—aluminum alloy

ALUMINUM
JTTS & JTTH



CATALOG NUMBER	ALUMINUM CONDUCTOR SIZE		DIMENSIONS - INCHES (MM)				APPROX. WT. EACH (LBS. (KG.))
	TUBING MAIN IPSEHPS	TUBING TAP IPSEHPS	C	A	W	J	
JTTS-0608	1/4	1/4	3 1/2 (85.72)	2 1/2 (66.68)	2 1/2 (63.5)	1/2 (12.7)	1.4 (.64)
JTTS-1004	1	1/2	3 1/2 (88.9)	2 1/2 (63.5)	2 1/4 (69.85)	1/2 (12.7)	1.4 (.64)
JTTS-1006	1	1/4	3 1/2 (88.9)	2 1/2 (66.68)	2 1/4 (69.85)	1/2 (12.7)	1.5 (.68)
JTTS-1010	1	1	3 1/2 (92.08)	2 1/4 (69.85)	2 1/4 (69.85)	1/2 (12.7)	1.7 (.77)
JTTH-1206	1 1/4	1/4	4 1/2 (114.3)	2 1/2 (63.5)	3 (76.2)	1/2 (12.7)	1.8 (.72)
JTTH-1210	1 1/4	1	4 1/4 (120.65)	2 1/4 (69.85)	3 (76.2)	1/2 (12.7)	1.8 (.82)
JTTH-1212	1 1/4	1 1/4	5 (127.0)	3 (76.2)	3 (76.2)	1/2 (12.7)	2.6 (1.18)
JTTH-1405	1 1/2	1/4	4 1/2 (114.3)	2 1/2 (63.5)	3 1/4 (82.55)	1/2 (12.7)	1.7 (.77)
JTTH-1410	1 1/2	1	4 1/4 (120.65)	2 1/4 (69.85)	3 1/4 (82.55)	1/2 (12.7)	2.0 (.91)
JTTH-1412	1 1/2	1 1/4	5 (127.0)	3 (76.2)	3 1/4 (82.55)	1/2 (12.7)	2.8 (1.27)
JTTH-1414	1 1/2	1 1/2	5 1/4 (133.38)	3 1/4 (82.55)	3 1/4 (82.55)	1/2 (12.7)	3.2 (1.45)
JTTH-2006	2	1/4	4 1/4 (120.65)	2 1/2 (63.5)	3 1/2 (88.9)	1/2 (12.7)	1.9 (.88)
JTTH-2010	2	1	5 (127.0)	2 1/4 (69.85)	3 1/2 (88.9)	1/2 (12.7)	2.2 (1.0)
JTTH-2012	2	1 1/4	5 1/4 (133.35)	3 (76.2)	3 1/2 (88.9)	1/2 (12.7)	3.0 (1.35)
JTTH-2014	2	1 1/2	5 1/2 (139.7)	3 1/4 (82.55)	3 1/2 (88.9)	1/2 (12.7)	3.5 (1.58)
JTTH-2020	2	2	5 1/4 (140.05)	3 1/2 (88.9)	3 1/2 (88.9)	1/2 (12.7)	5.2 (2.38)
JTTH-2406	2 1/2	1/4	5 (127.0)	2 1/2 (63.5)	3 1/4 (95.25)	1/2 (12.7)	2.1 (.96)
JTTH-2410	2 1/2	1	5 1/4 (133.35)	2 1/4 (69.85)	3 1/4 (95.25)	1/2 (12.7)	2.4 (1.09)
JTTH-2412	2 1/2	1 1/4	5 1/2 (139.7)	3 (76.2)	3 1/4 (95.25)	1/2 (12.7)	3.3 (1.50)
JTTH-2414	2 1/2	1 1/2	5 1/4 (140.05)	3 1/4 (82.55)	3 1/4 (95.25)	1/2 (12.7)	3.7 (1.68)
JTTH-2420	2 1/2	2	5 (152.4)	3 1/2 (88.9)	3 1/4 (95.25)	1/2 (12.7)	5.6 (2.54)
JTTH-2424	2 1/2	2 1/2	6 1/2 (165.1)	3 1/4 (95.25)	3 1/4 (95.25)	1/2 (15.88)	6.8 (3.08)

Continued on next page



SUBSTATION CONNECTORS

TYPES JTTS & JTTH Aluminum Straight Tee-Continued

CATALOG NUMBER	ALUMINUM CONDUCTOR SIZE		DIMENSIONS - INCHES (MM)				APPROX. WT. EACH LBS. (KG.)
	TUBING MAIN IPSEHPS	TUBING TAP IPSEHPS	C	A	W	J	
JTTH-3006	3	1/4	5 1/2 (136.52)	2 1/2 (53.5)	4 (101.6)	1/2 (12.7)	2.3 (1.04)
JTTH-3010	3	1	5 1/2 (142.88)	2 1/4 (69.85)	4 (101.6)	1/2 (12.7)	2.7 (1.22)
JTTH-3012	3	1 1/4	5 1/2 (140.22)	3 (76.2)	4 (101.6)	1/2 (12.7)	2.7 (1.59)
JTTH-3014	3	1 1/2	6 1/2 (155.58)	3 1/4 (82.55)	4 (101.6)	1/2 (12.7)	4.0 (1.81)
JTTH-3020	3	2	6 1/2 (161.92)	3 1/2 (88.9)	4 (101.6)	1/2 (12.7)	5.0 (2.54)
JTTH-3024	3	2 1/2	6 1/4 (171.45)	3 1/4 (95.25)	4 (101.6)	1/2 (15.88)	7.2 (3.26)
JTTH-3048	3	3	7 (177.8)	4 (101.6)	4 (101.6)	1/2 (15.88)	10.4 (4.72)
JTTH-3410	3 1/2	1	5 1/2 (140.22)	2 1/4 (62.65)	4 1/4 (107.95)	1/2 (12.7)	2.8 (1.27)
JTTH-3412	3 1/2	1 1/4	6 1/2 (155.58)	3 (76.2)	4 1/4 (107.95)	1/2 (12.7)	3.9 (1.77)
JTTH-3414	3 1/2	1 1/2	6 1/2 (161.92)	3 1/4 (82.55)	4 1/4 (107.95)	1/2 (12.7)	4.3 (2.0)
JTTH-3420	3 1/2	2	6 1/2 (168.28)	3 1/2 (88.9)	4 1/4 (107.95)	1/2 (12.7)	6.4 (2.90)
JTTH-3424	3 1/2	2 1/2	7 (177.8)	3 1/4 (95.25)	4 1/4 (107.95)	1/2 (15.88)	7.0 (3.45)
JTTH-3434	3 1/2	3 1/2	7 1/2 (190.5)	4 1/2 (107.95)	5 (127.0)	1/2 (15.88)	12.8 (5.81)
JTTH-4010	4	1	6 1/2 (155.58)	2 1/4 (69.85)	4 1/4 (107.95)	1/2 (12.7)	3.2 (1.45)
JTTH-4012	4	1 1/4	6 1/2 (161.92)	3 (76.2)	4 1/4 (107.95)	1/2 (12.7)	4.0 (1.81)
JTTH-4014	4	1 1/2	6 1/2 (168.28)	3 1/4 (82.55)	4 1/4 (107.95)	1/2 (12.7)	4.8 (2.18)
JTTH-4020	4	2	6 1/2 (169.82)	3 1/2 (88.9)	4 1/4 (107.95)	1/2 (12.7)	6.4 (2.90)
JTTH-4024	4	2 1/2	7 1/2 (187.32)	3 1/4 (95.25)	4 1/4 (107.95)	1/2 (15.88)	8.0 (3.63)
JTTH-4047	4	3	7 1/2 (193.68)	4 (101.6)	4 1/4 (107.95)	1/2 (15.88)	11.2 (5.08)
JTTH-4034	4	3 1/2	8 1/2 (206.38)	4 1/4 (107.95)	4 1/4 (107.95)	1/2 (15.88)	14.0 (6.35)
JTTH-4040	4	4	8 (203.2)	4 1/4 (107.95)	4 1/4 (107.95)	1/2 (15.88)	14.8 (6.71)
JTTH-5024	5	2 1/2	9 (228.6)	3 1/4 (95.25)	5 (127.0)	1/2 (15.88)	8.4 (3.81)
JTTH-5030	5	3	9 (203.2)	4 (101.6)	5 (127.0)	1/2 (15.88)	10.0 (4.54)
JTTH-5040	5	4	8 1/4 (222.35)	4 1/4 (107.95)	5 (127.0)	1/2 (15.88)	16.0 (7.26)
JTTH-5050	5	5	10 (254.0)	5 1/4 (133.35)	5 (127.0)	1/2 (15.88)	17.3 (7.85)
JTTH-6020	6	2	8 1/4 (209.55)	3 1/2 (92.08)	6 (152.4)	1/2 (15.88)	9.5 (4.31)
JTTH-6030	6	3	8 1/2 (219.08)	4 (101.6)	6 (152.4)	1/2 (15.88)	12.8 (5.81)
JTTH-6060	6	6	11 1/4 (285.75)	6 (152.4)	6 (152.4)	1/2 (15.88)	31.0 (14.05)

† Are furnished with 6 clamping bolts, only.

†† Main connection is furnished with 1/2" dia. clamping bolts ; Tap connection furnished with 1/2" dia. clamping bolts.

Dr No : JB/JTTH-4030



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SUBSTATION CONNECTORS
ALUMINUM HORIZONTAL BUS SUPPORT
TUBE TO INSULATOR

ALUMINUM
JBUR



TYPE JBUR Aluminum alloy bus support for aluminum tubing. Caps may be rotated to provide slip-free or rigid clamping. Stainless steel static eliminator springs are standard. Clamping bolts have hex-stops for one-wrench installation. Cap screws are supplied for upright mounting. For mounting to base of insulator, nuts, bolts, and lockwashers will be supplied by adding suffix "-B" to catalog number, example: JBUR-06-3-B.

Material: Castings—356-T6 aluminum alloy
Clamping hardware—aluminum alloy
Mounting hardware—galvanized steel

CATALOG NUMBER	CONDUCTOR SIZE IPS/EH/SPS	BOLT OR/EDA	DIMENSIONS - INCHES (MM)					APPROX. WT. EACH LBS. KG.	
			L	H	C	W	J		K
JBUR-06-3	3/4	3	7 3/8 (187.32)	2 7/8 (73.02)	2 (50.8)	3 3/8 (85.72)	1/2 (12.7)	9/16X3/4	2.2 (1.0)
JBUR-06-5	3/4	5	8 3/8 (208.12)	3 1/8 (79.38)	2 1/4 (57.15)	3 3/8 (85.12)	1/2 (12.7)	11/16X7/8	3.1 (1.4)
JBUR-10-3	1	3	7 3/8 (187.32)	3 (76.2)	2 (50.8)	3 5/8 (92.08)	1/2 (12.7)	9/16X3/4	2.4 (1.1)
JBUR-10-5	1	5	8 3/8 (208.12)	3 1/4 (82.55)	2 1/4 (57.15)	3 5/8 (92.08)	1/2 (12.7)	11/16X7/8	3.2 (1.4)
JBUR-12-3	1 1/4	3	7 3/8 (187.32)	3 1/2 (86.9)	2 1/4 (57.15)	4 (101.6)	1/2 (12.7)	9/16X3/4	2.6 (1.2)
JBUR-12-5	1 1/4	5	8 3/8 (208.12)	3 5/8 (92.08)	2 3/8 (60.32)	4 (101.6)	1/2 (12.7)	11/16X7/8	3.2 (1.5)
JBUR-14-3	1 1/2	3	7 3/8 (187.32)	3 7/8 (98.42)	2 1/2 (63.5)	4 1/8 (104.78)	1/2 (12.7)	9/16X3/4	3.3 (1.5)
JBUR-14-5	1 1/2	5	8 3/8 (208.12)	4 (101.6)	2 1/2 (63.5)	4 1/8 (104.78)	1/2 (12.7)	11/16X7/8	3.4 (1.5)
JBUR-20-3	2	3	7 1/2 (180.5)	4 3/8 (111.12)	2 3/4 (69.85)	4 3/4 (120.65)	1/2 (12.7)	9/16X3/4	3.2 (1.4)
JBUR-20-5	2	5	8 1/2 (214.3)	4 3/8 (111.12)	2 3/4 (69.85)	4 3/4 (120.65)	1/2 (12.7)	11/16X7/8	4.4 (2.0)
JBUR-24-3	2 1/2	3	8 1/4 (209.55)	5 (127.0)	3 1/8 (79.38)	5 5/8 (142.88)	1/2 (12.7)	9/16X3/4	3.9 (1.8)
JBUR-24-5	2 1/2	5	10 1/4 (260.35)	5 1/8 (130.18)	3 1/8 (79.38)	5 5/8 (142.88)	5/8 (15.88)	11/16X7/8	5.6 (2.5)
JBUR-30-3	3	3	8 3/8 (212.72)	5 7/8 (149.22)	3 5/8 (92.08)	6 1/4 (158.75)	5/8 (15.88)	9/16X3/4	5.2 (2.4)
JBUR-30-5	3	5	10 (254.0)	6 (152.4)	3 5/8 (92.08)	6 1/4 (158.75)	5/8 (15.88)	11/16X7/8	5.9 (2.7)
JBUR-34-3	3 1/2	3	8 3/8 (212.72)	6 1/2 (165.1)	4 (101.6)	6 7/8 (174.62)	5/8 (15.88)	9/16X3/4	5.8 (2.6)
JBUR-34-5	3 1/2	5	10 3/8 (263.52)	6 7/8 (174.62)	4 (101.6)	6 7/8 (174.62)	5/8 (15.88)	11/16X7/8	6.2 (2.8)
JBUR-40-3	4	3	8 1/4 (209.55)	7 1/4 (184.15)	4 1/2 (114.3)	7 3/8 (187.32)	5/8 (15.88)	9/16X3/4	6.4 (2.9)
JBUR-40-5	4	5	10 1/4 (260.35)	7 1/4 (184.15)	4 1/2 (114.3)	7 3/8 (187.32)	5/8 (15.88)	11/16X7/8	7.4 (3.3)
JBUR-50-3	5	3	10 (254.0)	8 1/4 (209.55)	4 7/8 (123.82)	8 1/4 (209.55)	5/8 (15.88)	9/16X3/4	8.1 (3.7)
JBUR-50-5	5	5	10 5/8 (269.88)	8 1/4 (209.55)	4 7/8 (123.82)	8 1/4 (209.66)	5/8 (15.88)	11/16X7/8	9.5 (4.3)
JBUR-60-3	6	3	9 3/8 (238.12)	9 1/4 (234.95)	5 3/8 (136.52)	9 3/8 (238.12)	5/8 (15.88)	9/16X3/4	9.8 (4.4)
JBUR-60-5	6	5	11 1/2 (292.1)	9 1/4 (234.95)	5 3/8 (136.52)	9 3/8 (238.12)	5/8 (15.88)	11/16X7/8	10.9 (4.9)



SUBSTATION CONNECTORS

ALUMINUM HORIZONTAL BUS SUPPORT CABLE OR TUBE TO INSULATOR TYPE JSR

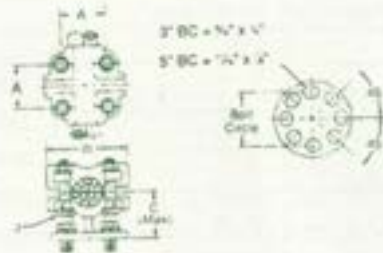
ALUMINUM
JSR

Aluminum alloy bus support for aluminum cable or tubing.

Cap screws are supplied for upright mounting.

For mounting to base of insulator, nuts, bolts, and lockwashers will be supplied by adding suffix "_B" to catalog number; example: JSR-200-3-B.

Material: Casting—356-T6 aluminum alloy
Clamping hardware—aluminum alloy
Mounting hardware—galvanized steel



CATALOG NUMBER	CONDUCTOR RANGE				BOLT CIRCLE DIA.	DIMENSIONS - INCHES (MM)				APPROX. EACH 1 KG.
	CABLE			TUBING IPS		A	C	W	J	
	AAC	ACSR	DIA.							
JSR-200-3	4/0-2000 MCM	3/4 6-1780 MCM	.522-1.632 (13.26-41.45)	1/4-1	3	2-1/2 (63.5)	3-1/8 (79.4)	4-1/2 (114.3)	1/2 (12.7)	4.2 (1.9)
JSR-200-5	4/0-2000 MCM	3/4 6-1780 MCM	.522-1.632 (13.26-41.45)	1/4-1	5	2-1/2 (63.5)	3-1/8 (79.4)	4-1/2 (114.3)	1/2 (12.7)	4.8 (2.1)
JSR-300-3	600-3000 MCM	5/8 5-2156 MCM	.891-1.998 (22.63-50.75)	1/2-1-1/2	3	2-3/4 (69.9)	3-1/4 (82.6)	4-3/4 (120.7)	1/2 (12.7)	4.9 (2.2)
JSR-300-5	600-3000 MCM	5/8 5-2156 MCM	.891-1.998 (22.63-50.75)	1/2-1-1/2	5	2-3/4 (69.9)	3-1/4 (82.6)	4-3/4 (120.7)	1/2 (12.7)	5.6 (2.5)

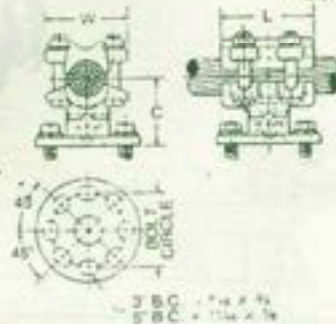


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SUBSTATION CONNECTORS

ALUMINUM HORIZONTAL BUS SUPPORT CABLE TO INSULATOR TYPE JAS

ALUMINUM
JAS



Aluminum alloy bus support for aluminum cable. Clamping bolts have hex-stops for one wrench installation.

Cap screws are supplied for upright mounting.

For mounting to base of insulator, nuts, bolts, and lockwashers will be supplied by adding suffix "_B" to catalog number, example: JAS-6-3-B

Material: Castings—356-T6 aluminum alloy
Clamping hardware—aluminum alloy
Mounting hardware—galvanized steel

CATALOG NUMBER	CABLE RANGE		CABLE DIAMETER (MM)		BOLT CIRCLE DIA.	DIMENSIONS - INCHES (MM)			APPROX WT. EACH LBS. KG
	AAL	ACSR	SMALL GROOVE	LARGE GROOVE		L	C	W	
JAS-6-3	#4-250 MCM	#4-4/0	.232-500 (5.9)-(12.7)	.500-.575 (12.5)-(14.6)	3	3 (76.2)	2 5/8 (65.9)	2 7/16 (61.9)	1.9 (.86)
JAS-6-5	#4-250 MCM	#4-4/0			5	3 (76.2)	2 5/8 (65.9)	2 7/16 (61.9)	2.8 (1.27)
JAS-9-3	4/0-600 MCM	4/0 - 2/7	.522-.656 (13.3)-(16.7)	.656-.853 (16.7)-(22.7)	3	3 1/4 (82.6)	2 3/4 (69.9)	2 11/16 (68.2)	2.2 (1.0)
JAS-9-5	4/0-600 MCM	4/0 - 2/7			5	3 1/2 (88.9)	2 3/4 (69.9)	2 11/16 (68.2)	3.1 (1.4)
JAS-13-3	600-1250 MCM	556.5-1113	.670-1.125 (21.1)-(28.6)	1.125-1.293 (28.6)-(32.8)	3	3 3/4 (95.3)	3 (76.2)	3 3/16 (80.9)	2.5 (1.14)
JAS-13-5	600-1250 MCM	556.5 - 1113			5	3 3/4 (95.3)	3 (76.2)	3 3/16 (80.9)	3.4 (1.55)
JAS-16-3	1250-2000 MCM	1113-1790	1.263-1.379 (32.0)-(35.0)	1.345-1.632 (34.2)-(41.5)	3	4 1/2 (114.3)	3 1/8 (79.4)	3 9/16 (80.9)	3.1 (1.41)
JAS-16-5	1250-2000 MCM	1113-1790			5	4 1/2 (114.3)	3 1/8 (79.4)	3 9/16 (80.9)	3.9 (1.77)
*JAS-18-3	2000-2500 MCM	1787-2500 MCM	1.632 - 1.824 (41.5)-(46.3)		3	4 3/4 (120.6)	3 1/4 (82.6)	3 5/8 (92.1)	4.3 (1.95)
*JAS-18-5	2000-2500 MCM	1787-2500 MCM			5	4 3/4 (120.6)	3 1/4 (82.6)	3 5/8 (92.1)	4.5 (2.05)
*JAS-21-3	2500-3000 MCM		1.824-2.000 (46.3)-(50.8)		5	2 3/4 (69.9)	3 (76.2)	3 7/8 (98.4)	3.8 (1.72)
*JAS-21-5	3500 MCM		2.000-2.200 (50.8)-(55.9)		5	5 (127.0)	4 (101.6)	4 11/16 (119.0)	5.0 (2.27)

* Do not have reversible cable caps.

+ Furnished with one piece body.



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SUBSTATION CONNECTORS

ALUMINUM HORIZONTAL BUS SUPPORT TUBE TO INSULATOR TYPE JBUR (COUPLER)

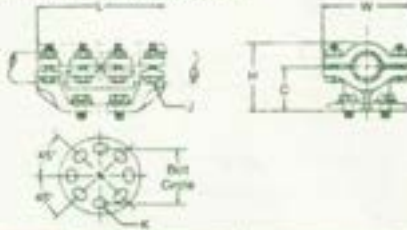
ALUMINUM
JBUR

Aluminum alloy, rigid clamping bus support-coupler for aluminum tubing. Clamping bolts have hex-stops for one-wrench installation.

Cap screws are supplied for upright mounting.

For mounting to base of insulator, nuts, bolts and lockwashers will be supplied by adding suffix "_B" to catalog number; example: JBUR-06-3-B

Material: Casting—356-T6 aluminum alloy
Clamping hardware—aluminum alloy
Mounting hardware—galvanized steel



CATALOG NUMBER	CONDUCTOR SIZE IPS/EHPS	BOLT CIRCLE DIA.	DIMENSIONS - INCHES (MM)						APPROX. WT. EACH LBS. KG.
			L	H	C	W	J	K	
JBUR-06-3	3/4	3	7 3/8 (187.32)	2 7/8 (73.02)	2 (50.8)	3 3/8 (85.72)	1/2 (12.7)	8/16X3/4	3.2 (1.4)
JBUR-10-3	1	5	7 3/8 (187.32)	3 (76.2)	2 (50.8)	3 5/8 (92.08)	1/2 (12.7)	8/16X3/4	3.5 (1.6)
JBUR-10-5	1	3	9 3/8 (238.12)	3 1/4 (82.55)	2 1/4 (57.15)	3 5/8 (92.08)	1/2 (12.7)	11/16X7/8	4.0 (1.8)
JBUR-12-3	1 1/4	5	7 3/8 (187.32)	3 1/2 (88.9)	2 1/4 (57.15)	4 (101.6)	1/2 (12.7)	8/16X3/4	3.5 (1.7)
JBUR-12-5	1 1/4	3	8 3/8 (208.12)	3 5/8 (92.08)	2 3/8 (60.32)	4 (101.6)	1/2 (12.7)	11/16X7/8	4.8 (2.1)
JBUR-14-3	1 1/2	5	7 3/8 (187.32)	3 7/8 (98.42)	2 1/2 (63.5)	4 1/8 (104.78)	1/2 (12.7)	8/16X3/4	4.9 (2.2)
JBUR-14-5	1 1/2	3	9 3/8 (238.12)	4 (101.6)	2 1/2 (63.5)	4 1/8 (104.78)	1/2 (12.7)	11/16X7/8	5.2 (2.4)
JBUR-20-3	2	5	7 3/8 (187.32)	4 3/8 (111.12)	2 3/4 (69.85)	4 3/4 (120.65)	1/2 (12.7)	8/16X3/4	5.1 (2.3)
JBUR-20-5	2	3	9 1/2 (241.3)	4 3/8 (111.12)	2 3/4 (69.85)	4 3/4 (120.65)	1/2 (12.7)	11/16X7/8	6.2 (2.8)
JBUR-24-3	2 1/2	5	8 1/4 (209.55)	5 (127.0)	3 1/8 (79.38)	5 5/8 (142.88)	1/2 (12.7)	8/16X3/4	6.6 (3.0)
JBUR-24-5	2 1/2	3	10 1/4 (260.35)	5 1/8 (130.18)	3 1/8 (79.38)	5 5/8 (142.88)	5/8 (15.88)	11/16X7/8	7.5 (3.4)
JBUR-30-3	3	5	8 3/8 (212.72)	5 7/8 (149.22)	3 5/8 (92.08)	6 1/4 (158.75)	5/8 (15.88)	8/16X3/4	9.0 (4.1)
JBUR-30-5	3	3	10 (254.0)	6 (152.4)	3 5/8 (92.08)	6 1/4 (158.75)	5/8 (15.88)	11/16X7/8	10.1 (4.6)
JBUR-34-3	3 1/2	5	8 3/8 (212.72)	6 1/2 (165.1)	4 (101.6)	6 7/8 (174.62)	5/8 (15.88)	8/16X3/4	9.6 (4.4)
JBUR-34-5	3 1/2	3	10 3/8 (263.52)	6 7/8 (174.62)	4 (101.6)	6 7/8 (174.62)	5/8 (15.88)	11/16X7/8	10.4 (4.7)
JBUR-40-3	4	5	8 1/4 (209.55)	7 1/4 (184.15)	4 1/2 (114.3)	7 3/8 (187.32)	5/8 (15.88)	8/16X3/4	10.8 (4.9)
JBUR-4-5	4	3	10 1/4 (260.35)	7 1/4 (184.15)	4 1/2 (114.3)	7 3/8 (187.32)	5/8 (15.88)	11/16X7/8	12.5 (5.7)



jaipuria brothers
Electricals Pvt. Ltd.

SUBSTATION CONNECTORS

ALUMINUM HORIZONTAL BUS SUPPORT TUBE TO INSULATOR TYPE JBST

ALUMINUM
JBST

Aluminum alloy, slip fit bus support for aluminum tubing. The adjustable base slots permit rotation up to 90° for alignment.

Cap screws are supplied for upright mounting.

For mounting to base of insulator, nuts, bolts and lockwashers will be supplied by adding suffix "B" to catalog number; example: JBST-50-3-B

Material: Casting—356-T6 aluminum alloy
Mounting hardware—galvanized steel



CATALOG NUMBER	CONDUCTOR SIZE IPS/EHPS	BOLT CIRCLE DIA.	DIMENSIONS - INCHES (MM)					APPROX. WT. EACH LBS. KG
			L	H	C	W	K	
JBST-06-3	3/4	3	1/2 (12.7)	3 1/4 (82.55)	2 (50.8)	4 1/4 (107.95)	9/16	1.3 (5.8)
JBST-06-5	3/4	5	1/2 (12.7)	3 1/2 (88.9)	2 1/4 (57.15)	6 1/4 (158.75)	11/16	1.5 (68)
JBST-10-3	1	3	1/2 (12.7)	3 3/8 (85.72)	2 (50.8)	4 1/4 (107.95)	9/16	1.5 (68)
JBST-10-5	1	5	1/2 (12.7)	3 1/2 (88.9)	2 1/4 (57.15)	6 1/4 (158.75)	11/16	1.7 (77)
JBST-12-3	1 1/4	3	1/2 (12.7)	3 5/8 (92.05)	2 1/4 (57.15)	4 1/4 (107.95)	9/16	1.8 (82)
JBST-12-5	1 1/4	5	1/2 (12.7)	3 5/8 (92.05)	2 3/8 (60.32)	6 1/4 (158.75)	11/16	1.8 (82)
JBST-14-3	1 1/2	3	1/2 (12.7)	4 1/8 (104.78)	2 1/2 (63.5)	4 1/4 (107.95)	9/16	1.7 (77)
JBST-14-5	1 1/2	5	1/2 (12.7)	4 1/8 (104.78)	2 1/2 (63.5)	6 1/4 (158.75)	11/16	2.3 (1.0)
JBST-20-3	2	3	5/8 (15.88)	4 5/8 (117.48)	2 3/4 (69.85)	4 1/4 (107.95)	9/16	1.9 (86)
JBST-20-5	2	5	5/8 (15.88)	4 5/8 (117.48)	2 3/4 (69.85)	6 1/4 (158.75)	11/16	2.8 (1.3)
JBST-24-3	2 1/2	3	3/4 (19.05)	5 3/8 (136.52)	3 1/8 (79.38)	4 1/4 (107.95)	9/16	2.2 (1.0)
JBST-24-5	2 1/2	5	3/4 (19.05)	5 3/8 (136.52)	3 1/8 (79.38)	6 1/4 (158.75)	11/16	3.5 (1.6)
JBST-30-3	3	3	1 (25.4)	6 1/4 (158.75)	3 5/8 (92.08)	4 1/4 (107.95)	9/16	3.2 (1.5)
JBST-30-5	3	5	1 (25.4)	6 1/8 (155.58)	3 5/8 (92.08)	6 1/4 (158.75)	11/16	3.7 (1.7)
JBST-34-3	3 1/2	3	1 (25.4)	7 1/8 (180.98)	4 (101.6)	4 1/4 (107.95)	9/16	3.9 (1.8)
JBST-34-5	3 1/2	5	1 (25.4)	6 7/8 (174.62)	4 (101.6)	6 1/4 (158.75)	11/16	4.3 (1.9)
JBST-40-3	4	3	1 1/8 (28.58)	7 5/8 (193.68)	4 1/2 (114.3)	4 1/4 (107.95)	9/16	4.1 (1.9)
JBST-40-5	4	5	1 1/8 (28.58)	7 5/8 (193.68)	4 1/2 (114.3)	6 1/4 (158.75)	11/16	4.6 (2.1)
JBST-50-3	5	3	1 1/8 (28.58)	8 3/4 (222.25)	4 7/8 (123.82)	6 1/4 (158.75)	11/16	5.3 (2.4)
JBST-50-5	5	5	1 1/8 (28.58)	8 5/8 (214.48)	5 3/8 (136.52)	6 1/4 (158.75)	11/16	6.0 (2.7)

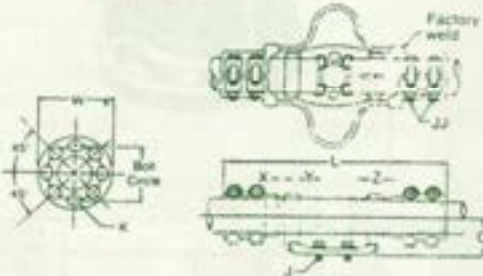


jaipuria brothers
Electricals Pvt. Ltd.

SUBSTATION CONNECTORS

ALUMINUM HORIZONTAL EXPANSION BUS SUPPORT TUBE TO INSULATOR TYPE JBFR

ALUMINUM
JBFR



Aluminum alloy expansion bus support for aluminum tubing.
Clamping bolts have hex-stops for one wrench installation.

Cap screws are supplied for upright mounting. Contact sealant is recommended.

For mounting to base to insulator, nuts, bolts, and lock washers will be supplied by adding suffix "-B" to catalog number, example: JBFR-06-3-B

Material : Castings—356-T6 aluminum alloy
Preformed laminated shunt—aluminum
Clamping hardware—aluminum alloy
Mounting hardware—galvanized steel

Note : To specify extra heavy (schedule 80 EHPS) tubing, add "H" TO Catalog number, example: JBFRH-40-5

CATALOG NUMBER	CONDUCTOR SIZE IPS/EHPS	BOLT CIRCLE DIA.	DIMENSIONS - INCHES (MM)							APPROX. WT. EACH LBS. KG
			L	C	W	Z	J	JJ	K	
JBFR-10-3	1	3	15.34 (400.05)	2 (50.8)	4 1/4 (107.95)	3/4 (19.05)	1/2 (12.7)	1/2 (12.7)	9/16X3/4	7.9 (3.6)
JBFR-10-5	1	5"	18.78 (47.42)	2 1/4 (57.15)	6 1/4 (158.75)	3/4 (19.05)	5/8 (15.88)	1/2 (12.7)	11/16X7/8	8.4 (3.8)
JBFR-12-3	1 1/4	3"	17.18 (434.78)	2 3/8 (60.2)	6 1/4 (158.75)	3/4 (19.05)	1/2 (12.7)	1/2 (12.7)	9/16X3/4	8.6 (3.9)
JBFR-12-5	1 1/4	5"	19.18 (485.78)	2 3/8 (60.2)	6 1/4 (158.75)	3/4 (19.05)	5/8 (15.88)	1/2 (12.7)	11/16X7/8	9.5 (4.3)
JBFR-14-3	1 1/2	3"	16.12 (419.1)	2 1/2 (63.5)	4 1/4 (107.95)	3/4 (19.05)	1/2 (12.7)	1/2 (12.7)	9/16X3/4	9.8 (4.4)
JBFR-14-5	1 1/2	5"	19.58 (498.48)	2 1/2 (63.5)	6 1/4 (158.75)	3/4 (19.05)	5/8 (15.88)	1/2 (12.7)	11/16X7/8	10.7 (4.9)
JBFR-20-3	2	3"	16.78 (428.62)	2 3/4 (69.85)	4 1/4 (107.95)	3/4 (19.05)	1/2 (12.7)	1/2 (12.7)	9/16X3/4	11.0 (5.0)
JBFR-20-5	2	5"	19.78 (504.82)	2 3/4 (69.85)	6 1/4 (158.75)	3/4 (19.05)	5/8 (15.88)	1/2 (12.7)	11/16X7/8	11.8 (5.4)
JBFR-24-3	2 1/2	3"	17.12 (444.5)	3 1/8 (79.38)	4 1/4 (107.95)	3/4 (19.05)	1/2 (12.7)	5/8 (15.88)	9/16X3/4	12.8 (5.8)
JBFR-24-5	2 1/2	5"	20.58 (523.88)	3 1/8 (79.38)	6 1/4 (158.75)	3/4 (19.05)	5/8 (15.88)	5/8 (15.88)	11/16X7/8	13.7 (6.2)
JBFR-30-3	3	3"	17.34 (450.85)	3 5/8 (92.08)	4 1/4 (107.95)	13/16 (20.64)	1/2 (12.7)	5/8 (15.88)	9/16X3/4	15.2 (6.9)
JBFR-30-5	3	5"	20.78 (530.22)	3 5/8 (92.08)	6 1/4 (158.75)	13/16 (20.64)	5/8 (15.88)	5/8 (15.88)	11/16X7/8	16.3 (7.4)
JBFR-34-3	3 1/2	3"	18.14 (463.55)	4 (101.6)	4 1/4 (107.95)	1 (25.4)	1/2 (12.7)	5/8 (15.88)	9/16X3/4	23.7 (10.8)
JBFR-34-5	3 1/2	5"	21.38 (542.92)	4 (101.6)	6 1/4 (158.75)	1 (25.4)	5/8 (15.88)	5/8 (15.88)	11/16X7/8	25.3 (11.5)
JBFR-40-3	4	3"	18.14 (463.55)	4 1/2 (114.3)	4 1/4 (107.95)	1 (25.4)	1/2 (12.7)	5/8 (15.88)	9/16X3/4	24.8 (11.3)
JBFR-40-5	4	5"	21.58 (549.28)	4 1/2 (114.3)	6 1/4 (158.75)	1 1/4 (31.75)	5/8 (15.88)	5/8 (15.88)	11/16X7/8	24.6 (11.2)
JBFR-50-5	5	5"	23.58 (600.08)	4 7/8 (123.82)	6 1/4 (158.75)	1 1/4 (31.75)	5/8 (15.88)	5/8 (15.88)	11/16X7/8	25.3 (11.7)
JBFR-60-5	6	5"	26.18 (663.58)	5 3/8 (136.52)	6 1/4 (158.75)	1 1/2 (38.1)	5/8 (15.88)	5/8 (15.88)	11/16X7/8	26.3 (11.9)

Designed for : $\pm 1 \frac{1}{8}$ " expansion, 80 ft. maximum bus length (both sides.) ** $\pm 2 \frac{1}{8}$ " expansion, 160 ft. total maximum bus length (both sides.)



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SUBSTATION CONNECTORS

ALUMINUM EXPANSION TERMINAL TUBE TO FLAT TYPE JBCC

ALUMINUM
JBCC

Aluminum semi-flexible terminal for connecting aluminum tubing to copper flat. Aluminum tongue surface is coated with contact sealant and factory bolted to laminated shunt. Clamping bolts have hex-stops for one-wrench installation. Tongue and shunt holes have NEMA spacing. Not recommended as a support member. Contact sealant is recommended.

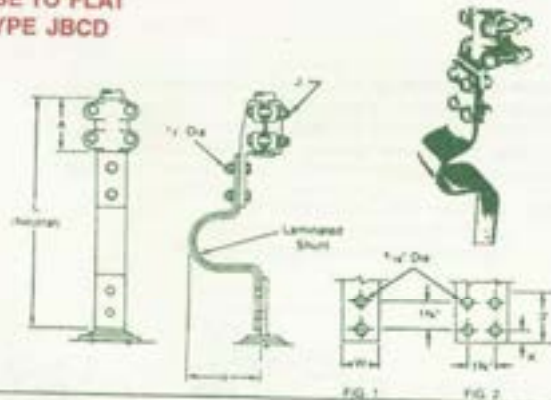
Material : Castings—356-T6 aluminum alloy

Performed laminated shunt—copper (tin plated contacts)

Clamping hardware—aluminum alloy

Shunt mounting hardware—galvanized steel

Note : Pad mounting hardware is not furnished.



CATALOG NUMBER	FIG. NO.	NO. PAD. HOLE	CONDUCTOR SIZE TUBING IPS / EHPS	DIMENSIONS - INCHES (MM)						APPROX. WT. EACH LBS. KG.
				L	A	H	K	W	J	
JBCC-06-B	1	2	3/4	17 (431.8)	2 1/2 (63.5)	5 5/16 (140.49)	5/8 (15.88)	1 1/2 (38.1)	1/2 (12.7)	6.0 (2.72)
JBCC-06-C	2	1	3/4	17 1/4 (438.15)	2 1/2 (63.5)	5 5/8 (142.88)	5/8 (15.88)	3 (76.2)	1/2 (12.7)	6.9 (3.13)
JBCC-10-B2	1	2	1	14 1/4 (361.95)	3 (76.2)	3 3/8 (85.72)	5/8 (15.88)	2 (50.8)	1/2 (12.7)	7.1 (3.22)
JBCC-10-C	2	4	1	14 1/4 (361.95)	3 (76.2)	3 5/16 (84.14)	5/8 (15.88)	3 (76.2)	1/2 (12.7)	7.7 (3.49)
JBCC-12-B2	1	2	1 1/4	18 (457.2)	3 (76.2)	8 1/16 (155.58)	5/8 (15.88)	2 (50.8)	1/2 (12.7)	8.6 (4.35)
JBCC-12-C	2	4	1 1/4	18 (457.2)	3 (76.2)	5 31/32 (151.60)	5/8 (15.88)	3 (76.2)	1/2 (12.7)	10.2 (6.63)
JBCC-14-B2	1	2	1 1/2	18 (457.2)	3 1/4 (82.55)	5 7/8 (149.22)	5/8 (15.88)	2 (50.8)	1/2 (12.7)	10.7 (4.85)
JBCC-14-C	2	4	1 1/2	18 (457.2)	3 1/4 (82.55)	5 3/8 (136.52)	5/8 (15.88)	3 (76.2)	1/2 (12.7)	11.3 (5.12)
JBCC-14-D	2	4	1 1/2	17 5/8 (447.68)	3 1/4 (82.55)	4 5/8 (117.48)	1 1/8 (28.58)	4 (101.6)	1/2 (12.7)	11.9 (5.40)
JBCC-20-B2	1	2	2	18 (457.2)	3 1/2 (88.9)	6 1/16 (153.99)	5/8 (15.88)	2 (50.8)	1/2 (12.7)	13.0 (5.90)
JBCC-20-C	2	4	2	15 1/8 (403.22)	3 1/2 (88.9)	5 9/16 (141.29)	5/8 (15.88)	3 (76.2)	1/2 (12.7)	13.8 (6.17)
JBCC-20-D	2	4	2	18 (457.2)	3 1/2 (88.9)	5 (127.0)	1 1/8 (28.58)	4 (101.6)	1/2 (12.7)	14.4 (6.53)
JBCC-24-B2	1	2	2 1/2	18 1/8 (460.38)	3 3/4 (95.25)	6 1/2 (165.1)	5/8 (15.88)	2 (50.8)	5/8 (15.88)	14.7 (6.68)
JBCC-24-C	2	4	2 1/2	18 (457.2)	3 3/4 (95.25)	6 1/2 (165.1)	5/8 (15.88)	3 (76.2)	5/8 (15.88)	15.1 (6.85)
JBCC-24-D	2	4	2 1/2	18 (457.2)	3 3/4 (95.25)	5 1/2 (139.7)	1 1/8 (28.58)	4 (101.6)	5/8 (15.88)	15.9 (7.21)
JBCC-30-C	2	4	3	14 13/16 (376.24)	4 (101.6)	6 3/4 (171.45)	5/8 (15.88)	3 (76.2)	5/8 (15.88)	17.5 (7.94)
JBCC-30-D	2	4	3	15 1/8 (403.22)	4 (101.6)	6 1/2 (165.1)	1 1/8 (28.58)	4 (101.6)	5/8 (15.88)	18.5 (8.39)
JBCC-34-D	2	4	3 1/2	18 1/8 (460.38)	4 1/4 (107.95)	6 31/32 (177.0)	1 1/8 (28.58)	4 (101.6)	1/2 (12.7)	21.0 (9.52)
JBCC-40-C	2	4	4	17 1/8 (454.02)	4 1/4 (107.95)	8 5/8 (212.72)	5/8 (15.88)	3 (76.2)	5/8 (15.88)	21.6 (9.80)
JBCC-40-D	2	4	4	18 (457.2)	4 1/4 (107.95)	7 3/8 (187.32)	1 1/16 (28.58)	4 (101.6)	5/8 (15.88)	23.6 (10.70)
JBCC-50-D	2	4	5	19 3/4 (501.65)	5 3/4 (146.05)	8 1/2 (215.9)	1 1/8 (28.58)	4 (101.6)	5/8 (15.88)	35.6 (11.4)



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SUBSTATION CONNECTORS

ALUMINUM STRAIGHT TEE CABLE MAIN TO FLAT BAR TAP TYPE JBGH

ALUMINUM
JBGH

Aluminum alloy, cable to flat bar, tee for connecting aluminum-aluminum or aluminum-copper conductor combinations. Flat pads are 3/8" thick with contact surface on one side. NEMA hole spacing is standard. Contact sealant is recommended.

Material : Castings—356-T6 aluminum alloy
Clamping hardware—aluminum alloy
Note : Pad mounting hardware is not furnished.

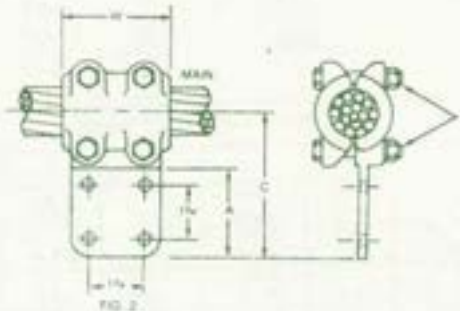


FIG. 2

CATALOG NUMBER	FIG. N.O.	CONDUCTOR RANGE CABLE MAIN			FLAT BAR TAP WIDTH INCHES	DIMENSIONS - INCHES (MM)				APPROX. WT. EACH LBS. KG.
		AAC	ACSR	DIA.		C	A	W	J	
JBGH-630-1	2	#4SOL-250 MCM	#4-4/0 Str.	.232-.575 (5.89-14.6)	3	4 5/8 (117.48)	3 1/4 (82.55)	3 (76.2)	1/2 (12.7)	.9 (.41)
JBGH-720-1	1	250-400 MCM	4/0-3/0.4 MCM	.563-.744 (14.3-18.9)	2	4 3/4 (120.65)	3 1/4 (82.55)	3 (76.2)	1/2 (12.7)	.9 (.41)
JBGH-920-1	1				2	4 7/8 (123.82)	3 1/4 (82.55)	3 1/4 (82.55)	1/2 (12.7)	1.4 (.64)
JBGH-930-1	2	350-600 MCM	3/0.4-4/77 MCM	.661-.893 (17.3-22.68)	3	4 7/8 (123.82)	3 1/4 (82.55)	3 1/4 (82.55)	1/2 (12.7)	1.8 (.82)
JBGH-940-1	2				4	5 3/4 (146.05)	4 1/4 (107.95)	3 1/4 (82.55)	1/2 (12.7)	2.2 (1.0)
JBGH-1130-1	2	600-800 MCM	5/0.5-7/95 MCM	.893-1.094 (22.43-27.79)	3	5 (127.0)	3 1/4 (82.55)	3 1/2 (88.9)	1/2 (12.7)	2.4 (1.1)
JBGH-1140-1	2				4	6 (152.4)	4 1/4 (107.95)	3 1/2 (88.9)	1/2 (12.7)	2.7 (1.2)
JBGH-1330-1	2	900-1250 MCM	7/15.5-11/13 MCM	1.061-1.283 (27.46-32.84)	3	5 1/8 (130.18)	3 1/4 (82.55)	3 3/4 (95.25)	1/2 (12.7)	2.4 (1.1)
JBGH-1530-1	2	1250-1600 MCM	11/13-12/72 MCM	1.269-1.459 (32.74-37.06)	3	5 1/4 (133.35)	3 1/4 (82.55)	4 1/4 (107.95)	1/2 (12.7)	2.8 (1.2)
JBGH-1540-1	2				4	6 1/4 (158.75)	4 1/4 (107.95)	4 1/4 (107.95)	1/2 (12.7)	3.5 (1.4)
JBGH-1630-1	2	1500-2000 MCM	12/72-15/60 MCM	1.382-1.632 (35.1-41.45)	3	5 3/4 (146.05)	3 1/4 (82.55)	4 1/2 (114.3)	5/8 (15.88)	3.7 (1.7)
JBGH-1640-1	2				4	6 1/2 (165.1)	4 1/4 (107.95)	4 1/2 (114.3)	5/8 (15.88)	4.2 (1.9)
JBGH-1840-1	2	2000-2500 MCM	-----	1.632-1.824 (41.45-46.33)	4	6 1/2 (165.1)	4 1/4 (107.95)	4 3/4 (120.65)	5/8 (15.88)	4.1 (1.9)
JBGH-2130-1	2	2500-3000 MCM	-----	1.999-2.580 (50.75-65.53)	3	5 3/4 (146.05)	3 1/4 (82.55)	5 (127.0)	5/8 (15.88)	4.5 (2.1)



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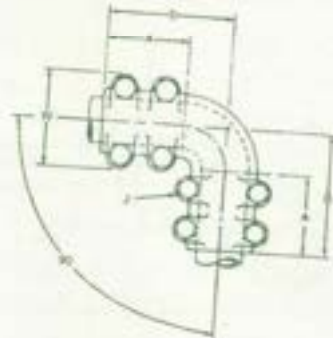
SUBSTATION CONNECTORS

ALUMINUM ANGLE COUPLER TUBE TO TUBE TYPE JB-90

ALUMINUM
JB-90

Aluminum alloy angle coupler for connecting aluminum-aluminum or aluminum-copper tubing at 90°. Clamping bolts have hex-stops for one-wrench installation. Contact sealant is recommended.

Material: Casting—356-T6 aluminum alloy
Hardware—aluminum alloy



CATALOG NUMBER	CONDUCTOR RANGE		A	B	W	J	APPROX. WT. EACH LBS. KG.
	MAIN	TAP					
JB-90-0606	3/4	3/4	2 1/2 (63.5)	3 15/16 (100.01)	3 (76.2)	1/2 (12.7)	1.8 (.82)
JB-90-1010	1	1	2 3/4 (66.85)	4 7/16 (112.71)	3 1/4 (82.55)	1/2 (12.7)	2.2 (1.0)
JB-90-1212	1 1/4	1 1/4	3 (76.2)	4 3/4 (120.65)	3 5/8 (92.08)	1/2 (12.7)	3.6 (1.63)
JB-90-1414	1 1/2	1 1/2	3 5/16 (84.14)	5 (127.0)	3 7/8 (98.52)	1/2 (12.7)	4.5 (2.04)
JB-90-2020	2	2	3 9/16 (90.49)	5 1/2 (139.7)	4 3/8 (111.12)	1/2 (12.7)	5.6 (2.54)
JB-90-2424	2 1/2	2 1/2	3 7/8 (96.42)	6 3/4 (168.05)	4 7/8 (123.82)	1/2 (12.7)	8.4 (3.81)
JB-90-3030	3	3	4 1/8 (104.78)	6 3/8 (161.92)	5 7/8 (149.22)	5/8 (15.88)	10.7 (4.85)
JB-90-3434	3 1/2	3 1/2	4 3/8 (111.12)	6 7/8 (174.62)	6 3/8 (161.92)	5/8 (15.88)	12.0 (5.44)
JB-90-4040	4	4	4 1/4 (107.95)	7 15/16 (201.61)	7 (177.8)	5/8 (15.88)	16.0 (7.26)
JB-90-5050	5	5	5 (127.0)	8 (203.2)	8 (203.2)	5/8 (15.88)	18.0 (8.16)
JB-90-6060	6	6	6 (152.4)	10 9/16 (268.29)	9 1/8 (231.78)	5/8 (15.88)	20.0 (9.07)



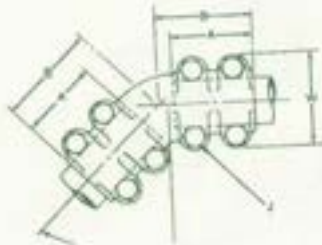
SUBSTATION CONNECTORS

ALUMINUM ANGLE COUPLER TUBE TO TUBE TYPE JB-45

ALUMINUM
JB-45

Aluminum alloy, angle coupler for connecting aluminum-aluminum or aluminum-copper tubing at 45°. Clamping bolts have hex-stops for one-wrench installation. Contact sealant is recommended.

Material : Castings—356-T6 aluminum alloy
Hardware—aluminum alloy



CATALOG NUMBER	CONDUCTOR RANGE		A	B	W	J	APPROX. WT. EACH LBS. KG.
	MAIN	TAP					
JB-45-0606	3/4	3/4	2 1/2 (63.5)	2 15/16 (74.61)	376.2	1/2 (12.7)	1.2 (.82)
JB-45-1010	1	1	2 7/8 (73.02)	3 3/8 (85.72)	3 1/4 (82.55)	1/2 (12.7)	2.2 (1.0)
JB-45-1212	1 1/4	1 1/4	3 (76.2)	3 9/16 (90.49)	3 5/8 (92.08)	1/2 (12.7)	3.8 (1.63)
JB-45-1414	1 1/2	1 1/2	3 3/8 (85.72)	4 (101.6)	3 7/8 (98.52)	1/2 (12.7)	4.5 (2.04)
JB-45-2020	2	2	3 1/2 (88.9)	4 3/8 (111.12)	4 3/8 (111.12)	1/2 (12.7)	5.8 (2.54)
JB-45-2424	2 1/2	2 1/2	3 3/4 (95.25)	4 3/4 (120.65)	4 7/8 (123.82)	1/2 (12.7)	8.4 (3.81)
JB-45-3030	3	3	4 1/8 (104.78)	5 (127.0)	5 7/8 (148.22)	5/8 (15.88)	10.7 (4.85)
JB-45-3434	3 1/2	3 1/2	4 1/4 (107.95)	5 9/16 (141.29)	6 3/8 (161.92)	5/8 (15.88)	12.5 (5.44)
JB-45-4040	4	4	4 1/4 (107.95)	5 11/16 (144.46)	7 (177.8)	5/8 (15.88)	16.0 (7.25)
JB-45-5050	5	5	5 (127.0)	6 15/16 (176.21)	8 (203.2)	5/8 (15.88)	18.0 (8.16)
JB-45-6060	6	6	6 (152.4)	7 7/8 (200.2)	9 1/8 (231.78)	5/8 (15.88)	20.0 (9.07)



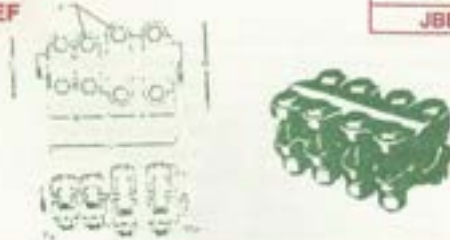
SUBSTATION CONNECTORS

ALUMINUM STRAIGHT COUPLER TUBE TO TUBE TYPE JBEF

ALUMINUM
JBEF

Aluminum alloy, tubing to tubing, straight coupler for connecting aluminum-aluminum or aluminum-copper conductor combinations. Clamping bolts have hex-stops for one-wrench installation. Contact Sealant is recommended.

Material : Castings—356-T6 aluminum alloy
Hardware—aluminum alloy



CATALOG NUMBER	CONDUCTOR RANGE		DIMENSIONS - INCHES (MM)						APPROX. WT. EACH LBS. KG.
	MAIN	TAP	L	A	B	W	C	J	
JBEF-0606	3/4	3/4	5 1/4 (133.35)	2 1/2 (63.5)	2 1/2 (63.5)	3 (76.2)	3 (76.2)	1/2 (12.7)	1.1 (.50)
JBEF-1006	1	3/4	5 1/2 (139.7)	2 3/4 (69.85)	2 1/2 (63.5)	3 1/4 (82.55)	3 (76.2)	1/2 (12.7)	1.3 (.59)
JBEF-1010	1	1	5 3/4 (145.25)	2 3/4 (69.85)	2 3/4 (69.85)	3 1/4 (82.55)	3 1/4 (82.55)	1/2 (12.7)	1.5 (.68)
JBEF-1206	1 1/4	3/4	5 5/8 (142.88)	3 (76.2)	2 1/2 (63.5)	3 5/8 (92.08)	3 (76.2)	1/2 (12.7)	1.3 (.59)
JBEF-1210	1 1/4	1	6 (152.4)	3 (76.2)	2 3/4 (69.85)	3 5/8 (92.08)	3 1/4 (82.55)	1/2 (12.7)	1.6 (.72)
JBEF-1212	1 1/4	1 1/4	6 1/4 (158.75)	3 (76.2)	3 (76.2)	3 5/8 (92.08)	3 5/8 (92.08)	1/2 (12.7)	1.8 (.82)
JBEF-1406	1 1/2	3/4	6 1/8 (155.58)	3 1/4 (82.55)	2 1/2 (63.5)	3 7/8 (98.42)	3 (76.2)	1/2 (12.7)	1.5 (.68)
JBEF-1410	1 1/2	1	6 1/4 (158.75)	3 1/4 (82.55)	2 3/4 (69.85)	3 7/8 (98.42)	3 1/4 (82.55)	1/2 (12.7)	1.8 (.82)
JBEF-1412	1 1/2	1 1/4	6 1/2 (165.1)	3 1/4 (82.55)	3 (76.2)	3 7/8 (98.42)	3 5/8 (92.08)	1/2 (12.7)	2.3 (1.03)
JBEF-1414	1 1/2	3/4	6 3/4 (171.45)	3 1/4 (82.55)	3 1/4 (82.55)	3 7/8 (98.42)	3 7/8 (98.42)	1/2 (12.7)	2.8 (1.27)
JBEF-2010	2	1	6 3/4 (171.45)	3 1/2 (89.9)	2 3/4 (69.85)	4 3/8 (111.12)	3 1/4 (82.55)	1/2 (12.7)	1.8 (.82)
JBEF-2012	2	1 1/4	6 7/8 (174.62)	3 1/2 (89.9)	3 (76.2)	4 3/8 (111.12)	3 5/8 (92.08)	1/2 (12.7)	2.7 (1.22)
JBEF-2014	2	1 1/2	7 1/8 (180.98)	3 1/2 (89.9)	3 1/4 (82.55)	4 3/8 (111.12)	3 7/8 (98.42)	1/2 (12.7)	3.2 (1.45)
JBEF-2020	2	2	7 1/4 (184.15)	3 1/2 (89.9)	3 1/2 (89.9)	4 3/8 (111.12)	4 3/8 (111.12)	1/2 (12.7)	3.4 (1.54)
JBEF-2410	2 1/2	1	6 7/8 (174.62)	3 3/4 (95.25)	2 3/4 (69.85)	4 1/8 (103.82)	3 1/4 (82.55)	1/2 (12.7)	2.0 (.91)
JBEF-2412	2 1/2	1 1/4	7 1/8 (180.98)	3 3/4 (95.25)	3 (76.2)	4 7/8 (123.82)	3 5/8 (92.08)	1/2 (12.7)	3.0 (1.36)
JBEF-2414	2 1/2	1 1/2	7 1/2 (190.5)	3 3/4 (95.25)	3 1/4 (82.55)	4 7/8 (123.82)	3 7/8 (98.42)	1/2 (12.7)	3.3 (1.50)
JBEF-2420	2 1/2	2	7 3/8 (187.32)	3 3/4 (95.25)	3 1/2 (89.9)	4 7/8 (123.82)	4 3/8 (111.12)	1/2 (12.7)	3.5 (1.59)
JBEF-2424	2 1/2	2 1/2	7 3/4 (196.85)	3 3/4 (95.25)	3 3/4 (95.25)	5 1/4 (133.35)	5 1/4 (133.35)	5/8 (15.88)	3.7 (1.69)
JBEF-3010	3	1	7 1/4 (184.15)	4 (101.60)	2 3/4 (69.85)	5 1/2 (133.35)	3 1/4 (82.55)	1/2 (12.7)	2.2 (1.00)
JBEF-3012	3	1 1/4	7 1/2 (190.5)	4 (101.60)	3 (76.2)	5 1/2 (133.35)	3 5/8 (92.08)	1/2 (12.7)	3.3 (1.50)
JBEF-3014	3	1 1/2	7 3/4 (196.85)	4 (101.60)	3 1/4 (82.55)	5 1/2 (133.35)	3 7/8 (98.42)	1/2 (12.7)	3.7 (1.69)
JBEF-3020	3	2	8 (203.2)	4 (101.60)	3 1/2 (89.9)	5 1/2 (133.35)	4 3/8 (111.12)	1/2 (12.7)	3.9 (1.77)
JBEF-3024	3	2 1/2	8 1/4 (209.55)	4 (101.60)	3 3/4 (95.25)	5 1/2 (133.35)	4 7/8 (123.82)	1/2 (12.7)	4.0 (1.81)
JBEF-3030	3	3	8 1/4 (209.55)	4 (101.60)	4 (101.60)	5 7/8 (149.22)	5 7/8 (149.22)	5/8 (15.88)	6.0 (2.72)



SUBSTATION CONNECTORS

**ALUMINUM EXPANSION TERMINAL
TUBE TO FLAT
TYPE JBBC**

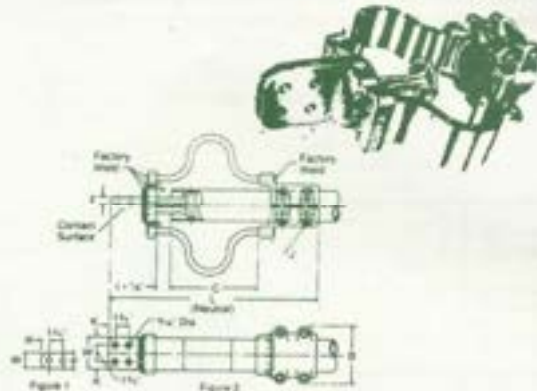
ALUMINUM
JBBC

Aluminum laminated bolted expansion terminal for aluminum tubing to aluminum or copper flat pad. Designed for ± 2 inch expansion on tubing larger than 2" I.P.S. Guides and laminations are proper size for use with standard (schedule 40 IPS) tubing. Clamping bolts have hex-stops for one-wrench installation. Tongue holes have NEMA spacing. Contact sealant is recommended.

Material : Castings—T6 aluminum alloy
Performed laminated shunts—aluminum
Clamping hardware—aluminum alloy

Notes: (1) To specify extra heavy (schedule 80, EHIPS) tubing, add "H" to catalog number; example: JBBC-10-H

(2) To obtain pad rotated 90°, add "V" to catalog number; example: JBBCV-30-D.



CATALOG NUMBER	FIG. NO.	CONDUCTOR SIZE TUBING IPS / EHIPS	DIMENSIONS - INCHES (MM)							APPROX. WT. EACH LBS. KG
			L	C	K	T	W	B	J	
JBBC-10-B2	1	1"	15 (38.10)	4 3/4 (120.65)	5/8 (15.88)	3/4 (19.05)	2 (50.8)	3 1/4 (82.55)	1/2 (12.7)	5.1 (2.3)
JBBC-10-C	2	1"	15 1/4 (387.35)	4 3/4 (120.65)	5/8 (15.88)	5/8 (15.88)	3 (76.2)	5/8 (15.88)	1/2 (12.7)	5.1 (2.3)
JBBC-12-B2	1	1 1/4"	15 3/4 (400.05)	4 5/8 (117.48)	5/8 (15.88)	3/8 (9.52)	2 (50.8)	3 5/8 (92.08)	1/2 (12.7)	5.2 (2.36)
JBBC-12-C	2	1 1/4"	15 3/4 (400.05)	4 5/8 (117.48)	5/8 (15.88)	3/8 (9.52)	3 (76.2)	3 5/8 (92.08)	1/2 (12.7)	5.2 (2.36)
JBBC-14-B2	1	1 1/2"	15 7/8 (403.22)	4 5/8 (117.48)	5/8 (15.88)	1/2 (12.7)	2 (50.8)	3 3/16 (96.64)	1/2 (12.7)	5.4 (2.45)
JBBC-14-C	2	1 1/2"	15 7/8 (403.22)	4 5/8 (117.48)	5/8 (15.88)	1/2 (12.7)	3 (76.2)	3 13/16 (96.64)	1/2 (12.7)	5.6 (2.54)
JBBC-20-B2	1	2"	15 15/16 (404.81)	4 1/2 (114.3)	5/8 (15.88)	1/2 (12.7)	2 (50.8)	4 5/16 (109.54)	1/2 (12.7)	6.1 (2.77)
JBBC-20-C	2	2"	15 15/16 (404.81)	4 1/2 (114.3)	5/8 (15.88)	1/2 (12.7)	3 (76.2)	4 5/16 (109.54)	1/2 (12.7)	6.3 (2.86)
JBBC-24-B2	1	2 1/2"	15 5/8 (396.87)	4 5/8 (117.48)	5/8 (15.88)	5/8 (15.88)	2 (50.8)	5 3/16 (131.75)	5/8 (15.88)	8.2 (4.17)
JBBC-24-D	2	2 1/2"	16 5/8 (422.26)	4 5/8 (117.48)	1 1/8 (28.58)	1/2 (12.7)	4 (101.60)	4 5/16 (109.54)	5/8 (15.88)	9.6 (4.35)
JBBC-30-B2	1	3"	16 13/16 (427.04)	4 7/8 (123.82)	5/8 (15.88)	3/4 (19.05)	2 (50.8)	5 13/16 (147.64)	5/8 (15.88)	10.8 (4.90)
JBBC-30-D	2	3"	17 13/16 (452.44)	4 7/8 (123.82)	1 1/8 (28.58)	5/8 (15.88)	4 (101.60)	5 13/16 (147.64)	5/8 (15.88)	11.4 (5.17)
JBBC-34-D	2	3 1/2"	17 3/4 (450.85)	4 5/8 (117.48)	1 1/8 (28.58)	3/4 (19.05)	4 (101.60)	5 5/16 (140.34)	5/8 (15.88)	12.3 (5.58)
JBBC-40-D	2	4"	18 (457.2)	4 7/8 (123.82)	1 1/8 (28.58)	7/8 (22.22)	4 (101.60)	6 15/16 (176.21)	5/8 (15.88)	14.4 (6.53)
JBBC-50-D	2	5"	19 3/8 (492.12)	5 1/8 (130.18)	1 1/8 (28.58)	1 (25.4)	4 (101.60)	7 15/16 (201.61)	5/8 (15.88)	20.2 (9.16)
JBBC-60-D	2	6"	20 5/8 (523.88)	5 3/8 (130.18)	1 1/8 (28.58)	1 (25.4)	4 (101.60)	8 1/16 (203.18)	5/8 (15.88)	24.8 (11.25)

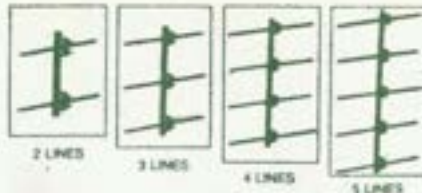
* 100 FT. MAXIMUM TOTAL BUS LENGTH

** 140 FT. MAXIMUM TOTAL BUS LENGTH

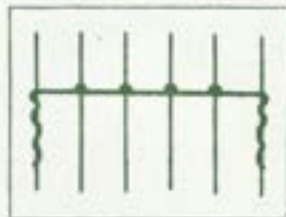


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Available From 2 LINES Up to 6 LINES
Service Line
PVC Spacers



L.T. LINE SPACERS



FOR RIGID TYPE
P.V.C. SPACER

- 2 Wire Rs. 60/-
- 3 Wire Rs. 65/-
- 4 Wire Rs. 70/-
- 5 Wire Rs. 80/-

TECHNICAL SPECIFICATIONS

L.T. LINE RIGID PVC SPACERS SPIRAL TYPE

L.T. LINE POLYPROPYLENE COMPOSITE PHASE SEPARATORS (MOULDED OR BOLTED TYPE)

All Dimensions in MM

	2-Lines	3-Lines	4-Lines	5-Lines	6-Lines		2-Lines	3-Lines	4-Lines	5-Lines
Phase-to-Phase Distance	300	600	900	1200	1500	Total Phase-to-Phase Distance	300	600	900	1200
Spacer Rod Dia.	13	13	13	13	13	Overall Total Length	350	680	960	1260
Spiral Hole Dia.	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	Width	25	25	25	25
Central Hole Dia. N.A.	8	8	8	8	8	Thickness	12	12	12	12
Spiral Length	250	250	250	250	250					

TOLERANCES :

1. Overall Length + 5 mm
2. Each Conductor Spacing + 5 mm
3. Spiral Length + 5 mm

TOLERANCES :

1. Overall Length + 3 mm
2. Each Conductor Spacing + 5 mm
3. Other Dimensions + 1 mm

Note : Both Spiral Type and Composite Spacers are suitable for vertical and horizontal configuration of conductors. However, since Phase-to Phase distance between two adjacent conductors can vary from State to State (can be different in some of the State Electricity Boards), the Purchaser should clearly indicate the spacing required between the two adjacent conductors to enable us to supply right type of Spacers. Both type of Spacers do not require any special technique or tools to put them on L.T. Line Conductors.

TESTS AS PER IS : 1445-1977

The following tests have been carried out on JAIPURIA Spacers of both type from Government of India Testing Centre and other reputed Test House, as per IS 1445-1977.

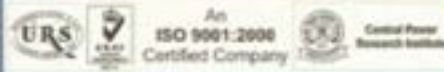
- | | |
|---|--------------------|
| 1. DRY POWER FREQUENCY WITHSTAND VOLTAGE TEST | - UPTO 23 KV (rms) |
| 2. WET POWER FREQUENCY WITHSTAND VOLTAGE TEST | - UPTO 10 KV (rms) |
| 3. AGEING TEST | - UPTO 70° + 2°C |
| 4. TENSILE STRENGTH TEST | - 500 KG MINIMUM |



LIST OF OTHER ITEMS MANUFACTURED BY US

1. Hardware fittings, Transmission line material & accessories.
2. Tools & Plants for the erection of Transmission lines.
3. Safety equipments (Earthing Stick Set and safety belts).
4. Fabrication & supply of Transmission Line Materials & Towers (11 to 800 KV)
5. Aluminium & Steel Rollers.
6. Double Aerial rollers & chairs duly neoprene rubber lined.
7. Come along clamps, bolted and automatic type for ACSR and GSS Wire.
8. Clamps (P.G., Dead end, Tee, Patch, Isolator, Bi-metallic, Straight type, L-type, Post type and Bus-Bar).
9. Straight joints for ACSR and G.S.S. Wire.
10. Earthing sets and rods.
11. Hand carts and wheel borros.
12. G.I. Pins.
13. Earth Augers for pile foundation 250mm to 500mm.
14. Rope Shalings.
15. Thimbles (G. I. stud type and solder type).
16. Adjustment Trolleys.
17. Rope Pulley blocks and chain pulley blocks.
18. Poles and Pole clamps, Brackets & fitting for Poles.
19. L.T. Fuses.
20. Turn Table 3, 5 & 8 Ton Capacity.
21. Template levelling jacks.
22. Danger plates, phase plates, circuit plates and Number plates.
23. Sagging Bridges and winches.
24. Bull dog Clamps.
25. Turn Buckles. 5-10 Ton Capacity.

Driven by technology
**committed to
quality**



- ↘ Dropout Fuses
- ↘ Lightning Arrestors
- ↘ Porcelain Insulators
- ↘ Earthing Materials
- ↘ Rubber Hand Gloves
- ↘ Rubber Matting
- ↘ Air Break Isolating Switches
- ↘ ACSR Conductors & Accessories
- ↘ Power Aluminium Bolted Type Connectors



Jaipuria Brothers Electrical Pvt. Ltd.

1749 /4 , Bhagirath Palace Chandni Chowk , Delhi - 110006

Phone:- 011-23873581, 011-23863300

Email:- jaipuriabros@gmail.com

www.jaipuriabrotherselect.com



jaipuria brothers
Electricals Pvt. Ltd.

Date: 30/10/14 By: Dir Gen of M/s (SI)
Army Headquarters
Engineer-in-Chief's Branch
HQ PO New Delhi-110011
62295/Approval/18-B/2401 31 Oct 83
E-in-C's List 'B' & 'R'

Appendix 'A'
(refers to ElnC's Branch
letter No 62295/Approval/
18-B/2401 dated
31 Oct. 83)

TECHNICAL PARTICULARS OF JB BRAND OUTDOOR
TYPE GANG OPERATED SWITCHES

JB BRAND GANG OPERATED AIR BREAK SWITCHES

1. M/s Jaipuria Brothers, 1820,
Electrical Market, Bhagirath Place, Delhi-
110006 are the manufacturer of 'JB' Brand
Gang operated Air break switches and
Demopul fuse Units 11/33 KV

2. The use of JB brand Gang operated
switches may be considered in the works
along with other standard makes. Technical
particulars of the product are given in
Appendix 'A' attached. Any further
Technical literature and information
required may please be obtained from the
manufacturer directly.



(SD Engineer)
EE
for Offg Sd/ M/s SI
for Engineer-in Chief

Copy to :
M/s Jaipuria Brothers
1820, Electrical Market
Bhagirath Place

1. Name of the Manufacturers	M/s Jaipuria Bros. Delhi
2. Type	'JB' brand outdoor type air break switches and dem pul fuses
3. Rated Voltage	11/33 KV
4. Rated current	200/400/600/800 Amp
5. Applicable Standard	IS 1818 of 1971
6. Quality and make of GI pipe	Hot, dipped, galvanized 'B' ISI marked MS/
7. Type of Insulators	Post Insulators as per IS-254 of 1973
8. Type of Contact	High pressure type, hard drawn, Electrolytic-Copper Strip

TERMS & CONDITIONS :

- All prices are nett, Ex-works of Ex-godown, Packing, Forwarding, Insurance, Sales Tax (if applicable and all other charges will be extra.
- 25% advance must be accompanied along with the order and balance against delivery or documents through Bank.
- All offers are strictly subject to prior sale and our final confirmation.
- All disputes are subject to DELHI Jurisdiction only.
- Prices are subject to change without notice.
- Dimensions and details are approximate only and not binding as articles are constantly improved.
- This list obsoletes all our price lists.

jaipuria brothers
Electricals Pvt. Ltd.

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