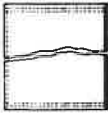
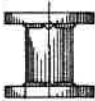
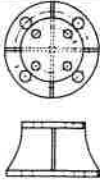
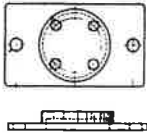




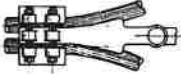

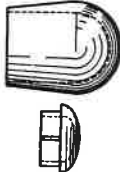
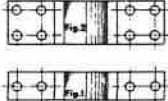
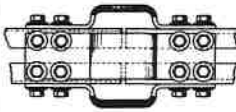


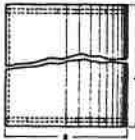
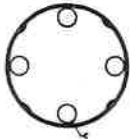
POWER CONNECTORS

MISCELLANEOUS SECTION Hb

 <p>Type FP Page Hb-1</p>	 <p>Type FA Page Hb-1</p>	 <p>Type FL Page Hb-1</p>	 <p>Type FX Page Hb-1</p>
 <p>Type SM Page Hb-2</p>	 <p>Type SME Page Hb-2</p>	 <p>Type SMH Page Hb-2</p>	 <p>Type SLH Page Hb-4</p>
 <p>Type DSL Page Hb-4</p>	 <p>Type C Page Hb-5</p>	 <p>Types CBO and CBI Page Hb-5</p>	 <p>Type CL Page Hb-6</p>
 <p>Special Laminated Connectors Page Hb-6</p>			

ADAPTERS OR SPACERS

TYPE FP



FOR 3" OR 5" BOLT CIRCLE INSULATORS

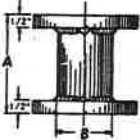
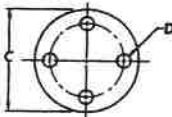
Catalog No.	Bolt Circle	Dimension in Inches		
		A	B	C
9804	3 TO 3	SPECIFY	3 1/2	9/16
9805	5 TO 5	SPECIFY	6	11/16

Example for Ordering: - #9804 Royal Type FP Adapters 3" Bolt Circle 3-1/2" high.

Type FP Adapters are made of heavy steel pipe. Plate inserts, drilled either for 3" or 5" bolt circles, are welded in the pipe section and the complete unit hot dip galvanized.

Adapters accurately machined to any height plus or minus 1/32" can be furnished.

TYPE FA



FOR 3" OR 5" BOLT CIRCLE INSULATORS

Catalog No.	Bolt Circle	Dimension in Inches			
		A	B	C	D
15177	3 TO 3	SPECIFY	1 1/4	4 1/4	9/16
15310	5 TO 5	SPECIFY	3	6 1/4	11/16

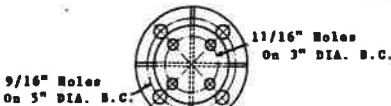
Example for Ordering: - #15310 Royal Type FA Adapters 5" Bolt Circle 7" high.

Type FA Adapters are made of extra heavy steel pipe, jig welded to 1/2" thick mounting plates.

Extremely accurate overall heights are maintained.

Short mounting bolts or cap screws are used.

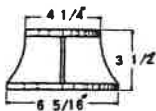
TYPE FL



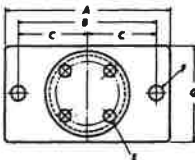
Catalog No.
6157

Example for Ordering: - #6157 Royal Type FL Reducing Adapters 3" to 5" Bolt Circle. Insulators pin mounted.

Always specify whether for cap or pin mounting.



TYPE FX

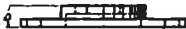


3" BOLT CIRCLE - TWO HOLE MOUNTING

Catalog No.	Dimensions in Inches						
	A	B	C	D	E	F	G
9756	7 3/4	6 1/2	3 1/2	1	9/16	9/16	4 1/2

Example for ordering: #9756 Royal Type FX Base adapter.

The Type FX is useful where the structure will not permit mounting the insulator direct. This adapter is steel hot dipped galvanized.



SPRING STRAIN BUS ASSEMBLIES

TYPE SM

Catalog No.	Compression Strength	Dimensions in Inches				
		A	B	C	D	E
12640	500 LBS.	6	1 1/2	5.2	9	3
9818	1000 LBS.	6	1 1/2	5.0	8	3
9819	2000 LBS.	6	1 1/2	5.2	9	3
15167	4900 LBS.	6	1 1/2	5.5	13 3/16	5

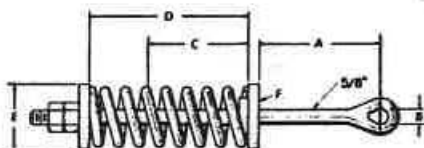
Example for Ordering: - #9818 Royal Type SM Spring Strain Bus Assembly 1000# Rating.

Spring Strain assemblies are widely used to maintain tension in strain busses and at other conductor dead ends.

The Type SM is open design.

The Spring is heavily electro-galvanized.

When installed, face "F" bears against structure.

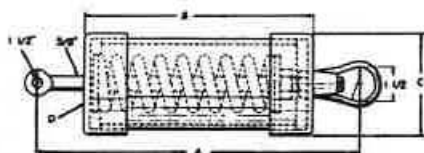


TYPE SME

Catalog No.	Compression Strength	Dimensions in Inches			
		A-Min.	A-Max.	B	C
12641	500 LBS.	20-5/8	23-1/2	10-7/16	4-1/2
12642	1000 LBS.	20-5/8	23-1/2	10-7/16	4-1/2
12643	2000 LBS.	20-5/8	24-1/2	10-7/16	4-1/2

Example for Ordering: - #12643 Royal Type SME Spring Strain Bus Assembly 2000# Rating.

The Type SME is a light duty universal design with housed spring. Tension is developed either by bearing on structure at face "D" or as a pure tension device by attaching eye nut to structure and insulators and conductor to eyebolt. Housing is galvanized steel pipe.

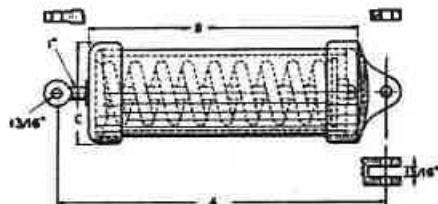


TYPE SMH

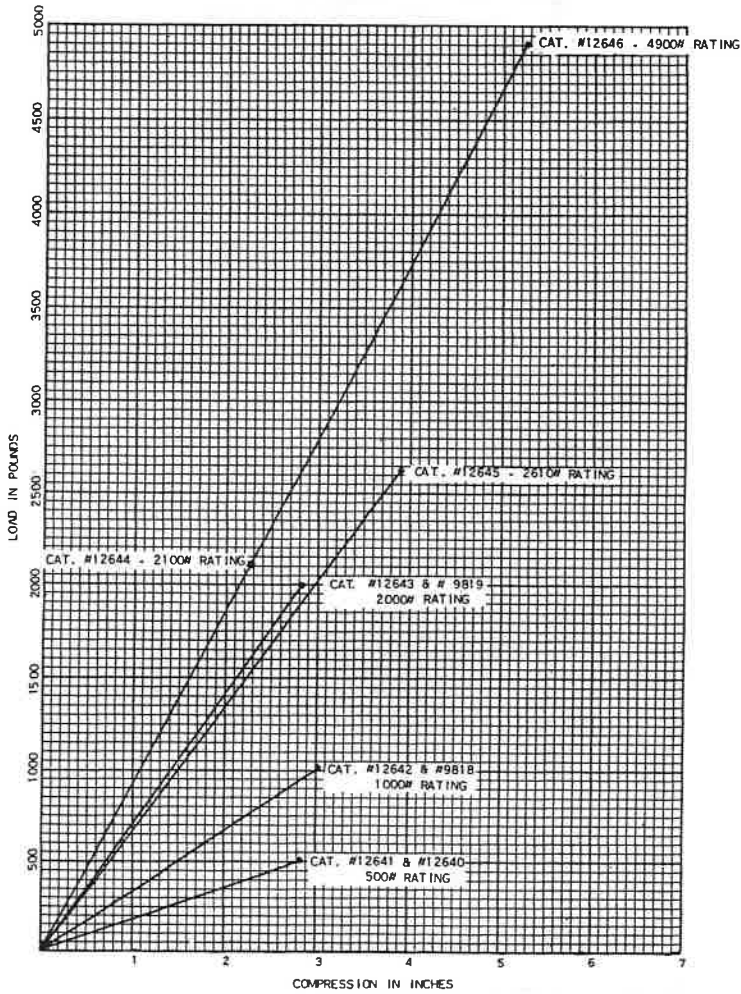
Catalog No.	Compression Strength	Dimensions in Inches			
		A-Min.	A-Max.	B	C
12644	2100 LBS.	12-3/4	15	10-1/2	7-3/4
12645	2610 LBS.	14-1/2	18-1/2	12-1/4	7-3/4
12646	4900 LBS.	20-1/8	25-3/8	17-7/8	7-3/4

Example for Ordering: - #12646 Royal Type SMH Spring Strain Bus Assembly 4900# Rating.

Type SMH is a heavy duty design where it is desired to maintain uniform sag in conductors or strain busses under high straining tensions. Housing is extra heavy galvanized steel pipe. End caps are malleable iron hot dip galvanized. Eye bolt is specially machined and hot dip galvanized.

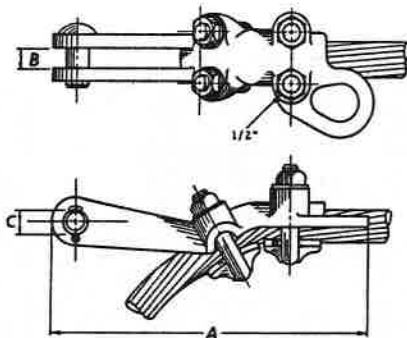


COMPRESSION CURVES FOR SPRING STRAIN ASSEMBLIES



CABLE DEAD-END CLAMPS

TYPE SLH

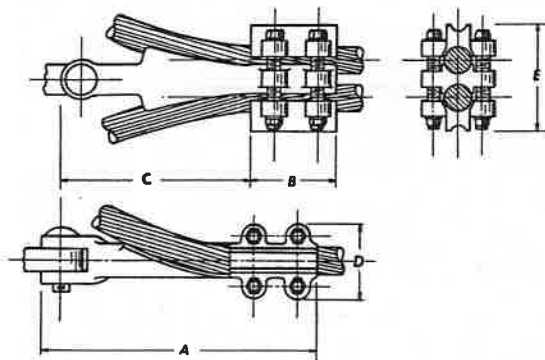


Catalog No.	Cable Range		Dimensions in Inches			
	Min.	Max.	A	B	C	Bolt Size
14854	1/0 STR	500 MCM	7 3/16	11/16	5/8	1/2
14855	500 MCM	1000 MCM	7 1/2	3/4	5/8	1/2

Example for Ordering: - #14854 Royal Type SLH Dead End Clamp 1/0 - 500 MCM, Cable.

Type SLH is cast bronze with galvanized steel "U" bolts and rivets. Individual keepers assembled captive on "U" bolts provide highest contact pressure. Pulling eye makes installation easy. Primarily designed for use with strain bus. Slip strength 6000 lbs.

TYPE DSL

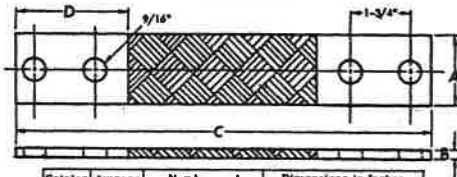


Catalog No.	Cable Range				Dimensions in Inches				
	Min.	Max.	Min.	Max.	A	B	C	D	E
12630	1/0 STR.	4/0 STR.	250 MCM	500 MCM	8 1/2	2 1/2	6	2 1/4	4
12631	300 MCM	500 MCM	600 MCM	1000 MCM	9 1/4	3 1/4	6	2 7/8	4 3/4

Example for ordering: - #12631 Royal Type DSL Dead End Connectors 300 MCM - 1000 MCM cable.

The design of Type DSL was suggested by utility engineers as a device for supporting double strain buses and service drops; for a combination dead end strains and for closing the delta on transformers. The Type DSL is full bronze.

FLEXIBLE CONNECTIONS TYPE C



Catalog No.	Amps Rating	Number and Size of Braid	Dimensions in Inches			
			A	B	C	D
7313	200	1 - 76800 Cu	1	1 1/8	12	3
7313	375	2 - 76800 Cu	1	1 1/4	12	3
15841	450	3 - 76800 Cu	1	1 1/2	12	3
7314	450	3 - 301400 Cu	1 1/2	3 1/8	12	3
7315	550	1 - 76800 Cu	1 1/2	3/8	12	3
15842	650	1 - 302400 Cu	1 1/2	13/32	12	3
15843	750	3 - 76800 Cu	1 1/2	7/16	12	3
7317	800	1 - 301400 Cu	1 1/2	1/2	12	3
15844	900	2 - 76800 Cu	1 1/2	3/8	12	3
15845*	1000	3 - 301400 Cu	1 1/2	13/16	12	3
15846*	1200	4 - 301400 Cu	1 1/2	1	12	3

* Catalog #15845 consists of (1) #7314 and (1) #7317.

* Catalog #15846 consists of (2) #7317.

Example for Ordering: — #7315 Royal Type C Flexible Braid Connectors "C" Dimension 18".

Type C Flexible Connectors will carry rated capacity indoors. Wire is tinned before stranding. Ferrules are completely tinned to provide low contact resistance. Standard length is 12" overall. Specify length required if longer or shorter than standard. Ferrules can be furnished to any length specified.

FLEXIBLE LAMINATED SHUNTS TYPE CL



Catalog No.	Amps Rating	Fla. No.	Width	Dimensions in Inches				
				A	B	C	D	E
9637	375	1	1 1/2	5/8	3 1/4	1 3/4	1 1/2	8
9638	500	1	2	5/8	3 3/4	1 3/4	1 1/2	8 1/2
9639	750	2	3	5/8	4 1/2	1 3/4	1 3/4	9 1/4
9640	1000	2	4	5/8	5	1 3/4	2	10 3/4

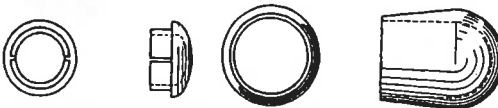
Example for ordering: — #9638 Royal Type CL flexible laminated connectors.

Unless otherwise specified Type CL is made of copper strips #24 B & S gauge (.020") thick. Strips are tinned and sweated together and drilled after sweating. Care is taken so that solder does not extend beyond line of bend. Connectors will be furnished undrilled or with special drilling as specified.

CORONA END BELLS

TYPE CBI

TYPE CBO



IPS Size	Cat. No. Type CBI	Cat. No. Type CBO
1/2	7144	7154
3/4	7148	7155
1	7146	7282
1 1/4	7147	7283
1 1/2	7148	7284
2	7149	7289
2 1/2	7150	7290
3	7151	7297
3 1/2	7152	7298
4	7153	7299

For Copper or Aluminum Tube

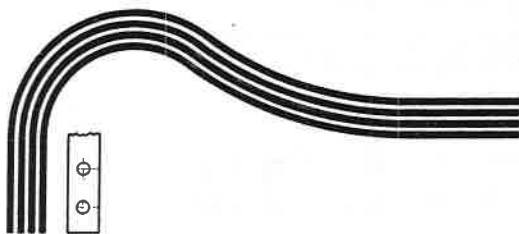
Accurately Machined for Shrink
fit

Example for ordering: — #7149 Royal Type CBI Corona End Bells 2" IPS.

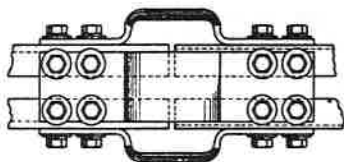
Hb-6 POWER CONNECTORS

FLEXIBLE LAMINATED CONNECTORS

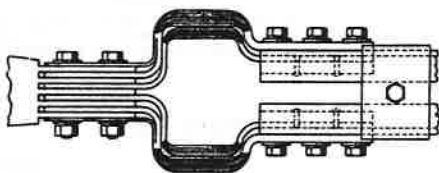
Types of special preformed laminated connectors. These were supplied for circuit breaker to bus connections. All types of preformed laminated connectors can be supplied to meet specifications.



Assembly of expansion joint for three inch hollow square channel bus.



Assembly of expansion joint between three inch hollow square channel bus and 3000 ampere disconnecting switch.



Flexible connector with special tinned length and drilling.



ROYAL SWITCHGEAR MANUFACTURING CO.

3995 Pine Lane SE • Bessemer, AL 35023 • (205) 426-4090 • FAX (205) 426-4095