

APPLICATION NOTE

29 January 2013
REVISED 08 July 2014

SB SERIES ORDERING OPTIONS



The **SB SERIES** is fully customizable based on specific ballast applications.

Once the connector's options/arrangements have been specified, IOL will be able to offer a quote on that particular configuration.

Please refer to the following chart of options, pages 2-3.

Please be advised that other pin arrangements (such as 20-18) *not shown* on the chart that follows may be available from the factory.

Over the years different arrangements may have been done for other customers; not all available have been documented here.

Contact us for any additional details or questions.

SB BALLAST

CONTACTS

CONTACTS TYPE & QUANTITY				SERVICE RATING	CONTACTS TYPE & QUANTITY				SERVICE RATING
ARRANGEMENT	CONTACTS	SIZE	*		ARRANGEMENT	CONTACTS	SIZE	*	
	16S-1	7	16S	A		6	3 4	D	
	16-10	3	12	A		3	8	E	
	20-15	7	12	A		3	4	D	
	22-1	2	8	D		7	2 4 2 8 3 12	G = D Ball=A	
	22-2	3	8	D		9	3 4 6 16	A	
	22-22	4	8	A		2	0	D	
	24-11	9	3 8 6 12	A		8	4 4 4 16	D	
	24-2	7	12	D					
	28A-9	9	4 4 5 16	A					

* see Table C2

Male	Female	For type arrangement
Part N. SVKP16SMSs Size 16S	Part N. SVKP16SFSs Size 16S	16S-1
Part N. SVKP16SMS Size 16	Part N. SVKP16SFS Size 16	28A-9 28-22 32A-9 40A-10
Part N. SVKP12SMS Size 12	Part N. SVKP12SFS Size 12	16-10 20-15 24-11 24-2 28-10
Part N. SVKP08SMS Size 8	Part N. SVKP08SFS Size 8	22-1 22-2 24-11 28-3 28-10
Part N. SVKP04SMS Size 4	Part N. SVKP04SFS Size 4	28A-9 28-22 28-6 28-10 32A-9 40A-10
Part N. SVKP00SMS Size 0	Part N. SVKP00SFS Size 0	32-5



Size	Max Current	Rated Current	Max Voltage Drop	Wire section (mm ²)	Wire section AWG
0	245 A	150 A	53 mV	50÷60	0
4	135 A	80 A	58 mV	16÷20	4
8	73 A	46 A	65 mV	6÷8	8
12	41 A	23 A	63 mV	3	12
16	22 A	13 A	74 mV	1÷1,5	16
16S	22 A	13 A	74 mV	1÷1,5	16



Table C2

Service Rating	Insert Arrangement Service Rating		Dielectric Strength (Standard at see level conditions)	
	Operating Voltage DC (at see level)	Operating Voltage AC (at see level)	Minumum Flashover AC MS	Test Voltage AC RMS (Hi Pot)
I	250 V	200 V	1400 V	1000 V
A	700 V	500 V	2800 V	2000 V
D	1250 V	900 V	3600 V	2800 V
E	1750 V	1250 V	4500 V	3500 V
B	2450 V	1750 V	5700 V	4500 V
C	4200 V	3000 V	8500 V	7000 V

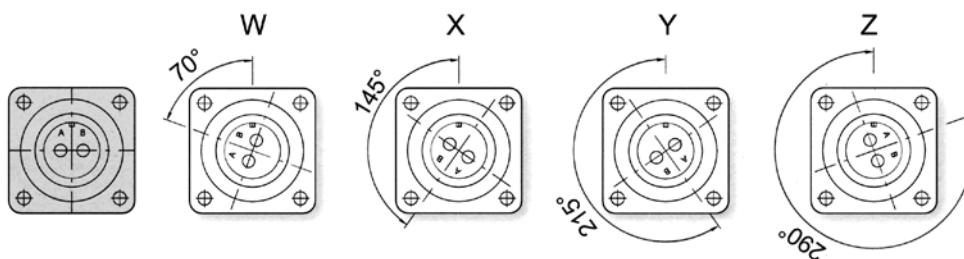
Table D

DEGREES FOR ALTERNATE INSERT POSITIONS

		INSERT TYPE															
		16S-1	16-10	20-15	22-1	22-2	22-22	24-2	24-11	28A-9	28-22	28-3	28-6	28-10	32A-9	32-5	40A-10
ROTATION DEGREES	W	80	90	80	35	70	-	80	35	110	70	70	70	80	65	35	-
	X	-	180	-	110	145	110	-	110	250	145	145	145	110	135	110	-
	Y	-	270	-	250	215	250	-	250	260	215	215	215	250	225	250	-
	Z	280	-	280	325	290	-	280	325	280	290	290	290	280	275	325	-

ROTATION EXAMPLE

FRONT VIEW MATING SIDE FEMALE INSERT SHELL ROTATION



FRONT VIEW MATING SIDE MALE INSERT SHELL ROTATION

