

Issue 05/16/2017

Date:

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File: PSS-K656SR-W0X

15/25kV	600A Deadbreak Straight Receptacle	w/ Test Point	K656SR-W0X
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Features:

- Fully rated 15/25kV, 600 Amp Deadbreak Receptacle
- Fully shielded, fully submersible molded rubber housing
- 100% peroxide-cured construction includes insulation and conductive EPDM materials
- Can be easily connected or disconnected in a de-energized state
- Optional accessories allow visible external separation, by-pass, isolation, dead-ending, grounding, and testing as well as adding taps
- Non-corrosive capacitive test point

K656SR Straight Receptacle w/ Test Point (with Cable Adapter, Lug, and Retaining Ring)

Applications:

The K656SR is designed to provide a fully shielded, submersible cable connection on 15/25kV high-voltage apparatus bushings. These connectors allow a straight cable connection on switchgear or electrical apparatus equipped with 600 Amp bushings. The K656SR product range is from #2 AWG to 1250 kcmil for aluminum and copper conductors with insulation diameters from .640 " to 1.935 ". When used on metallic tape shield or drain wire cable, an ECS ground kit/cable seal is recommended.

Ratings:

Meets ANSI/IEEE Standard 386, Latest Revision

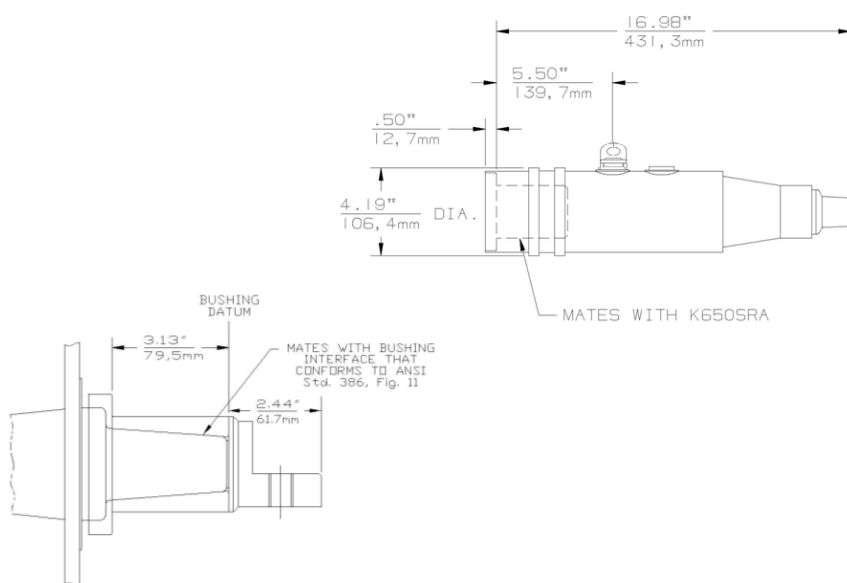
For 15kV Voltage Class:

8.3kV Max Phase-to-Ground – Operating Voltage
14.4kV Max Phase-to-Phase
95kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
34kV AC – One minute withstand
53kV DC – 15 minutes withstand
11kV AC – Corona Extinction @ 3pC sensitivity
600 Amp – Continuous
25kA Sym – 10 Cycles Momentary

For 28kV Voltage Class:

16.2kV Max Phase-to-Ground – Operating Voltage
28kV Max Phase-to-Phase
140kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
45kV AC – One minute withstand
84kV DC – 15 minutes withstand
21.5kV AC – Corona Extinction @ 3pC sensitivity
600 Amp – Continuous
25kA Sym – 10 Cycles Momentary

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Catalog Number Selection:

Step 1 (W)

Determine the insulation diameter of the cable. Select the insulation letter code that best straddles the insulation diameter from W table below. Insert code into catalog number.

Step 2 (X)

Choose the proper compression lug code according to the conductor size from table 2. Insert code into catalog number.

Example:

The ordering number for a 600 Amp straight receptacle for a 1/0 compressed conductor, 175 mil wall cable with an insulation diameter of .715" to .800" is K656SR-F0240.

K656SR - W Code 0 XXX Code

Cable Insulation Diameter in inches		Cable Insulation Diameter in millimeters		Symbol for W
MIN.	MAX.	MIN.	MAX.	
0.640	0.820	16.256	20.828	F
0.760	0.950	19.304	24.130	G
0.850	1.050	21.590	26.670	H
0.980	1.180	24.892	29.972	J
1.090	1.310	27.686	33.274	K
1.180	1.465	29.972	37.211	L
1.280	1.430	32.512	36.322	LM
1.370	1.630	34.798	41.402	M
1.515	1.780	38.481	45.212	N
1.725	1.935	43.815	49.149	P

Each kit contains the following:

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|---|-----------------------------|----------|
| 1 | Straight receptacle housing | K656BSR |
| 3 | Silicon Lubricant | 82-08 |
| 1 | Straight receptacle adapter | K650SRA |
| 1 | Installation Instruction | IS-0843 |
| 1 | Cable adapter | 655CA-W |
| 1 | Aluminum comp. lug | 03700XXX |
| 1 | Adapter retaining ring | 650ARR-X |
| 1 | Crimp chart | CC-0050 |
| 1 | Hardware Prepack | 650BAW |

X Code	AWG or kcmil		mm2	Connector Only		
	Strand./ Compr.	Solid/ Compact	Compact	Universal Aluminum	Copper	Bi-metal
210	-	2	-	03700210	03702210	03705210
220	2	1	35	03700220	03702220	03705220
230	1	1/0	50	03700230	03702230	03705230
240	1/0	2/0		03700240	03702240	03705240
250	2/0	3/0	70	03700250	03702250	03705250
260	3/0	4/0	95	03700260	03702260	03705260
270	4/0	250	125	03700270	03702270	03705270
280	250	300	-	03700280	03702280	03705280
290	300	350	150	03700290	03702290	03705290
300	350	400	185	03700300	03702300	03705300
310	400	450	240	03700310	03702310	03705310
320	450	500/550	-	03700320	03702320	03705320
330	500	600	250/300	03700330	03702330	03705330
350	600	700	-	03700350	03702350	03705350
360	650	750	400	03700360	03702360	03705360
380	700/750	900	-	03700380	03702380	03705380
390	800	-	-	03700390	03702390	03705390
400	900	1000	500	03700400	03702400	03705400
410	1000	-	-	03700410	03702410	03705410
420	-	1250	-	03700420	03702420	03705420
440	1250	-	-	03700440	03702440	03705440