

Issue Date: 12/14/2012

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File: PSS-K656YDSR-W0X

15/25kV	600A Deadbreak Direct Test Straight Receptacle	w/ Test Point	K656YDSR-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 using standard hand tools and equipment in a de-energized state
- Optional accessories allow visible external separation, by-pass, isolation, dead-ending, grounding, and testing as well as adding taps, surge arrestors, and circuit protection
- Includes EDTS testing system and capacitive test point

K656YDSR Direct Test Straight Receptacle with Cable Adapter, Lug, and Retaining Ring

Applications:

The K656YDSR is designed to provide a fully shielded, submersible cable connection on 15/25kV high-voltage "I", "Y", or "H" Bus. The K656YDSR product range is from #2 AWG to 1250 kcmil for aluminum and copper conductors with insulation diameters from .640" to 1.935". The K656YDSR incorporates Elastimold® Direct Test System (EDTS) for isolation, testing, and grounding. EDTS includes an insulated port on the separable connector providing a direct path to the conductor. The port, along with a 200TC series meter adapter, provides a means for direct conductor voltage testing. An insulated and shielded cap covers the port in normal operation on the K655DLR. Once the circuit is de-energized and isolated by switching, the EDTS test can be used along with your normal procedures.

Ratings:

Meets ANSI/IEEE Standard 386, Latest Revision

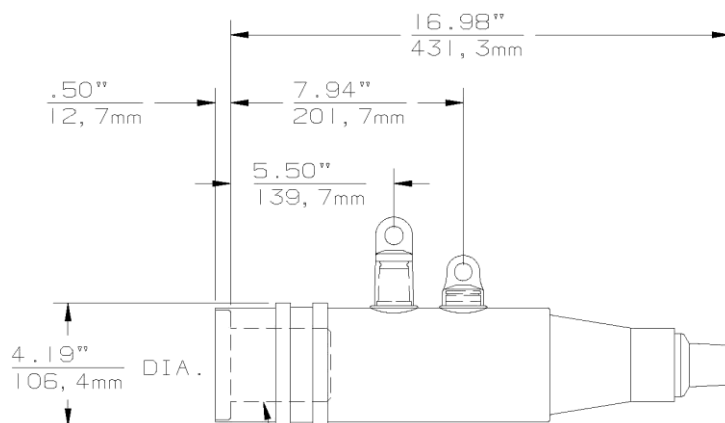
For 15kV Voltage Class:

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 25kV 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

15/25kV	600A Deadbreak Direct Test Straight Receptacle	w/o Test Point	K656YDSR-W0X
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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 series straight receptacle with direct test port and capacitive test port and insulation diameter of .830" and 1/0 stranded conductor is K656YDSR-G0240.

K656YDSR - W Code 0 XXX Code

Cable Insulation Diameter in inches		Cable Insulation Diameter in mm		Symbol for W
MIN.	MAX.	MIN.	MAX.	
0.640	0.820	16.26	20.83	F
0.760	.950	19.30	24.13	G
0.850	1.050	21.59	26.67	H
0.980	1.180	24.89	29.97	J
1.090	1.310	27.69	33.27	K
1.180	1.465	29.97	37.21	L
1.280	1.430	32.51	36.32	LM
1.370	1.630	34.80	41.40	M
1.515	1.780	38.48	45.21	N
1.725	1.935	43.82	49.15	P

Each kit contains the following:

1	Straight receptacle housing	K656YDSR
3	Tube, lubricant	82-08
1	Installation Instruction	IS-0373
1	Cable adapter	655CA-W
1	Aluminum comp. lug	03700XXX
1	Adapter retaining ring	650ARR-X
1	Crimp chart	CC-0050
1	Installation Instruction	IS-1034
1	Bolts and Washers	650BA

XXX Code	Conductor Size			Universal Aluminum Connector	All Copper Connector
	AWG or kcmil		mm ²		
	Strand./ Compr.	Solid/ Comp.			
210	-	#2	26.67	03700210	03702210
220	#2	#1	33.62	03700220	03702220
230	#1	1/0	42.41	03700230	03702230
240	1/0	2/0	53.49	03700240	03702240
250	2/0	3/0	67.43	03700250	03702250
260	3/0	4/0	85.01	03700260	03702260
270	4/0	250	107.2	03700270	03702270
280	250	300	127	03700280	03702280
290	300	350	152.01	03700290	03702290
300	350	400	177	03700300	03702300
310	400	450/500	202.68	03700310	03702310
320	450	550	228.02	03700320	03702320
330	500	600	253	03700330	03702330
340	550	650	278.5	03700340	03702340
350	600	700	304	03700350	03702350
360	650	750	329.5	03700360	03702360
380	700/750	800/900	355	03700380	03702380
390	800	-	405	03700390	03702390
400	900	1000	456	03700400	03702400
410	1000	-	507	03700410	03702410
420	-	1250	608	03700420	03702420
440	1250	-	633	03700440	03702440