



ITEM#	QTY.	PART NO.	DESCRIPTION
XX	1	342	COPPER SHIELDING TAPE (NOT SHOWN)
84	10	314 -	BRONZE SET SCREW
87	2	329	GROUND CONTACT RETAINING RING
100	2	181	1/4-20 x 5/8 HHCS
101	1	171	COVER CABLE ASSEMBLY
103	1	327	INSULATOR RETAINING RING
106	3	185R-COMP	ROLLER PIN AND SLEEVE
107	1	315	1/4-20 x 3/8 SET SCREW
117	3	417	ACRYLIC INSULATING TUBE
119	1	75-12	INSULATING COMPOUND (3M #2123)
130	6	940	LOCK WASHER
166	6	424	3/8-16 x 1-1/4 SHCS
907	3	984	PHASE CONTACT O-RING
908	1	986	INSULATOR O-RING
909	2	987	GROUND CONTACT O-RING
910	1	988	GROUND CHECK CONTACT O-RING
911	1	989	GROUND CHECK CONTACT RETAINING RING
913	1	971TF5-COMP	FEMALE INSULATOR ASSEMBLY - 5KV
914	3	975	FEMALE PHASE CONTACT
915	2	976A	FEMALE GROUND CONTACT
916	1	977A	FEMALE GROUND CHECK CONTACT
917	3	979-COMP	FEMALE PHASE CONTACT NUT ASSEMBLY
918	1	965A-COMP	LVNT SOCKET FLANGE ASSEMBLY - 5KV
919	1	980S3	LVNT SOCKET COVER - 480V-5KV
921	1	993	FEMALE GROUND CONTACT ISOLATION BUSHING
927	1	962	LVNT SOCKET FLANGE ADAPTER PLATE
934	1	980S.1	LVNT SOCKET COVER WAVE SPRING
935	1	194	1/4-20 LOCK NUT

NOTE: ALL HARDWARE IS STAINLESS STEEL UNLESS OTHERWISE SPECIFIED

ASSEMBLY INSTRUCTIONS

- 1) REMOVE THE INSULATOR ASSEMBLY (913) FROM THE SOCKET FLANGE (918) BY REMOVING THE INSULATOR RETAINING RING (103). THIS IS A SPIRAL TYPE RETAINING RING AND CAN BE REMOVED BY PLACING A SCREWDRIVER UNDER THE END OF THE SPIRAL (A) AND LIFTING THE RING. THEN LAY THE FRONT OF THE INSULATOR TUBES (CONTACT SIDE) ON A CLEAN FLAT SURFACE AND PRESS ON THE SOCKET FLANGE.
- 2) REMOVE THE INSULATION FROM THE ENDS OF THE CONDUCTORS AS FOLLOWS: PHASE AND GROUND CONDUCTORS 1-7/8" [48mm], GROUND CHECK CONDUCTOR 3/4" [19mm]. IN ORDER TO PREVENT THE STRANDS FROM FRAYING, FORM A CAP OVER THE ENDS OF THE CONDUCTOR STRANDING WITH THE COPPER TAPE PROVIDED IN THE KIT. FORM THE CAP BY ROLLING A PIECE OF THE COPPER TAPE AROUND THE STRANDING TO SHAPE A CYLINDER, LEAVING 1/8" (3mm) TO 3/16" (5mm) OF THE CYLINDER EXTENDING OUT OVER THE STRANDING. FOLD OVER THE END OF THE CYLINDER AND TAP IT DOWN TO FORM A THIMBLE LIKE CAP.
- 3) THE CONTACTS MUST BE REMOVED FOR CONDUCTOR INSTALLATION. THE PHASE CONTACTS (914) CAN BE REMOVED BY UNSCREWING THE CONTACT NUTS (917) USING A TJB PART NO. 992 CONTACT NUT WRENCH (NOT PROVIDED). **DO NOT REMOVE THE TEFLON INSULATOR TUBES FROM THE INSULATOR PLATE.** REMOVE THE GROUND CONTACTS (915) AND THE GROUND CHECK CONTACT (916) BY REMOVING THE RETAINING RINGS, (87) FOR THE GROUND AND (911) FOR THE GROUND CHECK, WITH TJB PART NO. 22R PLIERS. BE CAREFUL TO AVOID OVER BENDING THE RETAINING RINGS. INSERT THE PHASE CONDUCTORS INTO THE PHASE CONTACTS AND TIGHTEN THE SET SCREWS USING AN ALLEN WRENCH WITHOUT ADDITIONAL LEVERAGE.
- 4) INSERT THE GROUND CHECK LEAD INTO THE GROUND CHECK CONTACT (905) AND TIGHTEN THE SET SCREW.
- 5) BOTH GROUND CONTACTS (915) HAVE BEEN ISOLATED FROM THE SHELL OF THE COUPLER. INSTALL THE GROUND WIRES AS DESIRED AND TIGHTEN THE SET SCREWS.
- 6) SLIDE THE INSULATOR RETAINING RING (103) OVER ALL THE CONDUCTORS BEFORE INSERTING THE CONTACTS INTO THE INSULATOR ASSEMBLY. RE-INSTALL ALL OF THE CONTACTS INTO THE INSULATOR ASSEMBLY AND AND REPLACE THE CONTACT NUTS AND RETAINING RINGS.
- 7) POSITION THE INSULATOR SO THAT THE ACRYLIC TUBES (117) ARE VERTICAL AND CENTER THE CONDUCTORS IN THE TUBES.
- 8) MIX THE COMPOUND (119) AS PER THE COMPOUND INSTRUCTIONS AND FILL THE ACRYLIC TUBES.
- 9) AFTER THE COMPOUND HAS CURED, APPLY A SMALL AMOUNT OF SILICONE GREASE (PROVIDED) TO THE INSULATOR O-RING (908) TO EASE INSERTION OF THE INSULATOR INTO THE SOCKET FLANGE. INSTALL THE INSULATOR AND REPLACE THE INSULATOR RETAINING RING. **MAKE CERTAIN THAT THE RETAINING RING IS COMPLETELY SEATED IN THE GROOVE.**
- 10) MOUNT THE SOCKET FLANGE TO THE ADAPTOR PLATE USING THE 3/8-16 x 1-1/4 BOLTS (166) AND THE LOCK WASHERS (130) PROVIDED.

