



NOTE:
 IN ORDER TO MEET COMMONWEALTH OF PENNSYLVANIA REQUIREMENTS THERE MUST BE A **SOLDERED** CONNECTION ATTACHING THE SHIELD TO THE GROUND WIRES. WIRE FOR THIS CONNECTION IS PROVIDED IN THE COUPLER KIT.

ITEM#	QTY.	PART NO.	DESCRIPTION
X	1	342	COPPER SHIELDING TAPE (NOT SHOWN)
XX	1	489	WIRE WRAP (NOT SHOWN)
9	6	182	1/4-20 X 1" HHCS
80	1	316	1/4-20 X 1/2" BRASS SCREW
81	7	202	1/4" LOCK WASHER
84	10	314-	BRONZE SET SCREW
85	1	333	INTERNAL GROUND LEAD ASSEMBLY
87	2	329	GROUND CONTACT RETAINING RING
100	2	181	1/4-20 x 5/8 HHCS
101	1	171D	COVER CABLE ASSEMBLY
103	1	327	INSULATOR RETAINING RING
106	3	185R-COMP	ROLLER PIN AND SLEEVE
107	2	315	1/4-20 X 3/8 SET SCREW
110	4	167	3/8-16 X 3 HEX HEAD TAPP BOLT
111	4	168	3/8-16 LOCK NUT
112	2	120A-	CABLE CLAMP
130	6	940	3/8 LOCK WASHER
149	1	216A	INSULATING TAPE
162	1	939-COMP	END CASTING ASSEMBLY
163	1	123	CABLE SEAL
164	1	187	STAINLESS STEEL HOSE CLAMP
166	6	424	3/8-16 X 1" 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	971TF48-COMP	FEMALE INSULATOR ASSEMBLY - 480V
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 - 480V
919	1	980S3	LVNT SOCKET COVER - 480V - 5KV
921	1	993	FEMALE GROUND CONTACT ISOLATION BUSHING
924	1	912	LVNT END BELL
926	1	9101	LVNT END BELL O-RING
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

NOTE: THE END BELL (924) DOES NOT HAVE TO BE UNBOLTED FROM THE SOCKET BELL ADAPTER (920) IN ORDER TO INSTALL THE COUPLER ONTO THE CABLE

- 1) REMOVE THE SOCKET FLANGE (918) FROM THE SOCKET END BELL ADAPTER (920) BY REMOVING THE TWO 3/8-16 SOCKET HEAD SCREWS (166). REMOVE THE INSULATOR ASSEMBLY (913) FROM THE SOCKET FLANGE BY REMOVING THE INSULATOR RETAINING RING (103). REMOVE THE RETAINING RING BY PLACING A SCREWDRIVER IN THE NOTCH AT THE END OF THE RING AND LIFTING IT OUT OF THE GROOVE.
- 2) SLIDE THE FOLLOWING PARTS OVER THE CABLE IN THE FOLLOWING ORDER: END CASTING (162), HOSE CLAMP (164), CABLE SEAL (163), END BELL - SOCKET BELL ADAPTER ASSEMBLY (924-920), END BELL O-RING (926) AND THEN THE INSULATOR RETAINING RING (130).
- 3) REMOVE THE JACKET FROM THE CABLE FOR 7-1/2" [190.5mm]. **DO NOT CUT INTO THE UNDERLYING CONDUCTOR INSULATION.** FOLD THE GROUND AND GROUND CHECK LEADS BACK AND OUT OF THE WAY.
- 4) REMOVE THE SHIELD ON THE CABLE FOR 6" [152.5mm] AND THE SEMI-CON FOR 5-1/2" [140mm]. COVER THE ENDS OF THE BRAID AND THE SEMI-CON WITH 2 LAYERS OF INSULATING TAPE.
- 5) REMOVE THE INSULATION FROM THE ENDS OF THE CONDUCTORS AS FOLLOWS: PHASE AND GROUND 1-7/8" [41mm], GROUND CHECK 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 CONDUCTOR 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 TIGHT TO FORM A THIMBLE-LIKE CAP.
- 6) THE CONTACTS DO NOT HAVE TO BE REMOVED FROM THE INSULATOR TO INSTALL THE CONDUCTORS. INSERT THE CONDUCTORS INTO THE PHASE CONTACTS (914) AND TIGHTEN THE SET SCREWS USING AN ALLEN WRENCH WITHOUT ADDITION LEVERAGE.

- 7) INSERT THE GROUND CHECK LEAD INTO THE GROUND CHECK (916) AND TIGHTEN THE SET SCREW.
- 8) REMOVE THE SHELL GROUND STRAP (85) FROM THE SOCKET BELL ADAPTER. THE TWO GROUND CONTACTS (915) HAVE BEEN ISOLATED FROM THE SHELL OF THE COUPLER. INSTALL THE SHELL GROUND AND THE GROUND LEADS AS DESIRED AND TIGHTEN THE SET SCREWS.
- 9) APPLY A SMALL AMOUNT OF SILICONE GREASE (PROVIDED) TO THE O-RING (908) ON THE INSULATOR TO EASE INSERTION OF THE INSULATOR INTO THE SOCKET FLANGE. MAKE CERTAIN THAT THE GROUND ISOLATION BUSHING (921) IS FITTED ON THE GROUND CONTACT IN THE 6 O-CLOCK POSITION ON THE INSULATOR. INSTALL THE INSULATOR. REPLACE THE INSULATOR RETAINING RING. RE-ATTACH THE GROUND STRAP TO THE SOCKET BELL ADAPTER.
- 10) INSERT THE O-RING (926) INTO THE GROOVE ON THE FACE OF THE SOCKET BELL ADAPTER AND SECURE THE END BELL - ADAPTER ASSEMBLY TO THE SOCKET FLANGE USING THE 3/8-16 BOLTS (166) AND LOCK WASHERS (130).
- 11) SEAT THE CABLE SEAL (163) ON THE REAR OF THE END BELL. MAKE CERTAIN THE SET SCREW IN THE END CASTING(107) IS BACKED OUT AND SCREW THE END CASTING (162) ONTO THE END BELL. **HAND TIGHTEN ONLY.** TIGHTEN THE SET SCREW.
- 12) POSITION THE HOSE CLAMP (164) SO THAT THE SCREW IS ACCESSIBLE FROM THE RECESS IN THE CABLE CLAMP (112) AND TIGHTEN THE CLAMP ONTO THE CABLE SEAL.
- 13) CENTER THE CABLE ON THE END CASTING AND POSITION THE CABLE CLAMPS (112) SO THAT THE CABLE IS CENTRALLY POSITIONED AND TIGHTEN THE NUTS (111) AND BOLTS (110).

