



ASSEMBLY INSTRUCTIONS

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.

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 END BELL-FLANGE ADAPTER ASY. (924-920) BY REMOVING THE SIX 3/8-16 SOCKET HEAD SCREWS (166). REMOVE THE INSULATOR (913) FROM THE SOCKET FLANGE 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 AND LIFTING THE RING.
- 2) SLIDE THE FOLLOWING PARTS OVER THE CABLE IN THE FOLLOWING ORDER: END CASTING (162), HOSE CLAMP (164), CABLE SEAL (163), END BELL-FLANGE ADAPTOR ASY. (924-920), AND THEN THE INSULATOR RETAINING RING (130).
- 3) REMOVE THE ACRYLIC TUBES FROM THE BACK OF THE INSULATOR TUBES (117) AND SET THEM ASIDE.
- 4) REMOVE THE JACKET FROM THE CABLE FOR 7-1/2" [190.5mm]. **DO NOT CUT INTO THE UNDERLYING CONDUCTORS**. FOLD THE GROUND AND GROUND CHECK LEADS BACK AND OUT OF THE WAY.
- 5) REMOVE THE SHIELD 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.
- 6) 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 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.
- 7) 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 CONTACTS AND (911) FOR THE GROUND CHECK, WITH TJB PART NO. 22R SNAP RING PLIERS. BE CAREFUL TO AVOID OVER BENDING THE RETAINING RINGS. INSERT THE CONDUCTORS INTO THE PHASE CONTACTS AND TIGHTEN THE SET SCREWS USING AN ALLEN WRENCH WITHOUT ADDITIONAL LEVERAGE.

- 8) INSERT THE GROUND CHECK LEAD INTO THE GROUND CHECK (916) AND TIGHTEN THE SET SCREW.
- 9) 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 GROUND LEADS AS DESIRED AND TIGHTEN THE SET SCREWS.
- 10) SLIDE THE ACRYLIC TUBES (117) AND THE SHRINK TUBE (120) OVER THE PHASE CONDUCTORS BEFORE ATTACHING THE CONTACTS. REINSTALL ALL OF THE CONTACTS INTO THE INSULATOR AND REPLACE THE CONTACT NUTS AND RETAINING RINGS.
- 11) SLIDE THE SHRINK TUBE ALL THE WAY OVER THE PHASE CONTACTS AND AGAINST THE INSULATOR TUBE. APPLY HEAT TO THE SHRINK TUBE AT THE INSULATOR TUBE END AND WORK BACK TOWARD THE CONDUCTOR UNTIL IT HAS SHRUNK TIGHTLY ON THE CONTACT AND CONDUCTOR. REPLACE THE ACRYLIC TUBES ONTO THE BACK OF THE TEFLON INSULATOR TUBES.
- 12) APPLY A SMALL AMOUNT OF SILICONE GREASE (PROVIDED) TO THE INSULATOR O-RING (908) 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 AND REPLACE THE INSULATOR RETAINING RING.
- 13) ATTACH THE END BELL- FLANGE ADAPTER ASY. TO THE SOCKET FLANGE USING THE 3/8-16 BOLTS (166) AND LOCK WASHERS (130).
- 14) SEAT THE CABLE SEAL (163) ON THE REAR OF THE END BELL. MAKE CERTAIN THE SET SCREW (107) IS BACKED OUT AND SCREW THE END CASTING (162) ONTO THE END BELL. HAND TIGHTEN ONLY. TIGHTEN THE SET SCREW.
- 15) POSITION THE HOSE CLAMP (164) SO THAT THE SCREW IS ACCESSABLE FROM THE RECESS IN THE CABLE CLAMP (112) AND TIGHTEN THE CLAMP ONTO THE CABLE SEAL.
- 16) 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).

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
81	7	202	1/4" LOCK WASHER
84	10	314-	BRONZE SET SCREW - SPECIFY SIZE
85	1	333	INTERNAL GROUND LEAD ASSEMBLY
87	2	329	GROUND CONTACT RETAINING RING
100	2	181	1/4-20 x 5/8 HEX HEAD BOLT
101	1	171D	COVER CABLE ASSEMBLY
103	1	327	INSULATOR RETAINING RING
106	4	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 - SPECIFY SIZE
117	3	417	ACRYLIC TUBE
120	3	428	HEAT SHRINK TUBE
130	6	331A	LOCK WASHER
149	1	216A	INSULATING TAPE
162	1	939-COMP	END CASTING ASSEMBLY
163	1	123	CABLE SEAL - SPECIFY SIZE
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	971TF3-COMP	FEMALE INSULATOR ASSEMBLY - 3KV
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	965B-COMP	LVNT SOCKET FLANGE ASSEMBLY - 3KV
919	1	980S4	LVNT SOCKET COVER - 1KV-3KV
920	1	902	LVNT SOCKET BELL ADAPTER
921	1	993	FEMALE GROUND CONTACT ISOLATION BUSHING
924	1	912	LVNT END BELL
926	2	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

