

CABLE ACCESSORIES

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SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. PP	INDEX	
L MOEN	P PATEL	CHKD. LM		
		2021-08-19		
DATE OF ISSUE: 2022-01-10		DRAWING NO: B-36-INDEX	SHEET 1 of 1	REV. V

GENERAL INFORMATION

1. RURAL UNDERGROUND PRIMARY CABLE

THE STANDARD CABLE FOR RURAL UNDERGROUND USE IS NO. 2 SOLID ALUMINUM, 28 kV, XLPE.

CABLE MAY BE INSTALLED BY PLOUGHING OR TRENCHING PROVIDING THAT THE MINIMUM DEPTH OF COVER OF ONE METRE IS MAINTAINED.

FOR TWO CABLES IN THE SAME TRENCH, 0.3M (ONE FOOT) VERTICAL OR 0.6M (TWO FEET) HORIZONTAL SEPARATION IS REQUIRED.

THE STANDARD CABLE REEL LENGTH IS 1600 METRES. THIS SHOULD BE CONSIDERED WHEN DETERMINING THE NUMBER OF CABLE SPLICES REQUIRED FOR THE PROJECT. ADDITIONAL SPLICES MAY BE REQUIRED WHERE TELEPHONE, PIPELINE OR ASPHALT-TOPPED ROAD CROSSINGS WILL BE ENCOUNTERED.

AN EXTRA ONE-METRE LENGTH OF CABLE SHOULD BE PROVIDED FOR BOTH CABLES AT THE SPLICE LOCATION TO ALLOW FOR SPLICING REQUIREMENTS, EXPANSION/CONTRACTION, AND OPERATIONAL CONSIDERATIONS.

2. RURAL UNDERGROUND SECONDARY CABLE

THE FOLLOWING SERVICE CABLES SHALL BE USED TO CONNECT THE PADMOUNTED TRANSFORMER TO THE CUSTOMER'S METER SOCKET:

- a) 100 AMP SERVICE.... 3 x 1/0 AL USE190 (CODE #2 94 64)
- b) 200 AMP SERVICE.... 3 x 1/0 AL USE190 (CODE #2 94 64)
- c) SERVICE EXCEEDING 200 AMPS.... CONSULT DISTRIBUTION ENGINEERING

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L. MOEN	L. MOEN	CHKD. LM		
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3. VALID CONDUCTOR STOCK

a) PRIMARY CABLES

- #2 SOLID AL CNJ – #2 94 22
- #1 COMPACT AL CNJ – #2 94 32
- 4/0 COMPACT AL CNJ – #2 94 36
- 500 KCMIL COMPACT AL CNJ – #2 94 37
- 500 KCMIL COMPACT CU CNJ – #2 94 38

b) SECONDARY CABLES

- #4, 2 CONDUCTOR AL USEI90 – #2 94 51
- #2, 3 CONDUCTOR AL USEI90 – #2 94 62
- #2, 4 CONDUCTOR AL USEI90 – #2 94 82
- 1/0, 3 CONDUCTOR AL USEI90 – #2 94 64
- 1/0, 4 CONDUCTOR AL USEI90 – #2 94 84
- 4/0, 3 CONDUCTOR AL USEI90 – #2 94 66
- 4/0, 4 CONDUCTOR AL USEI90 – #2 94 86
- 350, 3 CONDUCTOR AL USEI90 – #2 94 67
- 350, 4 CONDUCTOR AL USEI90 – #2 94 87
- 500, 3 CONDUCTOR AL USEI90 – #2 94 68
- 500, 4 CONDUCTOR AL USEI90 – #2 94 88

- 1/0, 2 CONDUCTOR AL USEB90 – #2 92 87
- 1/0, 3 CONDUCTOR AL USEB90 – #2 92 30
- 3/0, 2 CONDUCTOR AL USEB90 – #2 92 80
- 3/0, 3 CONDUCTOR AL USEB90 – #2 92 81
- 500, 3 CONDUCTOR AL USEB90 – #2 92 83

- #8, 1 CONDUCTOR CU USEB90 – #2 92 78
- #2, 2 CONDUCTOR CU USEB90 – #2 92 86
- 1/0, 2 CONDUCTOR CU USEB90 – #2 92 93

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L. MOEN	L. MOEN	CHKD. LM	
		2020-01-20	
DATE OF ISSUE: 2020/05/12		DRAWING NO: B-36-00	SHEET 2 of 2 REV. 0

STRESS CONE TERMINATION PROCEDURE

1. TRAIN CABLE AND CUT TO LENGTH AS REQUIRED.
2. FOLLOWING THE MANUFACTURER'S INSTRUCTIONS EXPOSE THE CONDUCTOR FOR TERMINAL CONNECTOR.
3. BIND THE CONCENTRIC NEUTRAL WIRES NEATLY FROM END OF CABLE INSULATION, BY MAKING A COMPLETE WRAP WITH THE REVERSED LAY WIRE AROUND THE OTHER CONCENTRIC NEUTRAL WIRES. DO NOT CUT THIS OFF AS IT IS NEEDED TO CONNECT TO THE STRESS CONE GROUNDING CLIP.
4. REMOVE THE SEMI-CONDUCTING JACKET SHIELD FROM END OF CABLE INSULATION. AVOID DAMAGING THE CABLE INSULATION. ALSO MAKE SURE THE SEMI-CONDUCTING JACKET IS CUT AT 90° TO INSULATION AND AS ROUND AS POSSIBLE WITH NO JAGGED EDGES.
5. PLACE ONE WRAP OF MARKING TAPE BELOW END OF THE SEMI-CONDUCTING JACKET.
6. THOROUGHLY CLEAN THE CABLE INSULATION AND THE CONDUCTOR TO MAKE SURE IT IS FREE OF CONDUCTIVE PARTICLES AND CONTAMINATION. USE ALUMINUM OXIDE (GARNET CLOTH) 400 GRADE TO SMOOTH INSULATION WHERE NECESSARY – CLEAN WITH AN APPROVED SOLVENT.
7. ADD SILICONE GREASE ON THE CABLE AND INSIDE STRESS CONE. (USE GREASE PROVIDED WITH CONE.)
8. SLIP CONE OVER CABLE AND MAKE CERTAIN THE CONE IS SEATED FIRMLY AGAINST THE END OF THE SEMI-CONDUCTING SHIELD. THE BOTTOM OF THE CONE SHOULD BE FLUSH WITH THE MARKER TAPE.
9. REMOVE MARKING TAPE, AND CLEAN THE EXPOSED CABLE INSULATION, TERMINAL CONNECTOR AND STRESS CONE TO REMOVE EXCESS LUBRICANT.
10. LOOP THE REVERSED LAY CONCENTRIC GROUND WIRE THROUGH THE GROUNDING CLIP ON THE HOUSING OF THE STRESS CONE AND TWIST TIGHT.
11. CRIMP THE TERMINAL CONNECTOR TO THE CONDUCTOR.
12. THE CRIMPING VOIDS AND THE VOID BETWEEN THE LEADING EDGE OF THE INSULATION AND THE TERMINAL CONNECTOR SHALL BE FILLED SMOOTHLY WITH SEMI-CONDUCTING TAPE.
13. 1/2 LAP – 1 LAYER OF HIGH VOLTAGE INSULATING TAPE FROM TOP END OF TERMINAL CONNECTOR TO 50mm BELOW END OF INSULATION.
14. 1/2 LAP – 1 LAYER OF SILICONE OZONE RESISTANT COVER TAPE OVER ALL, STARTING AT THE STRESS CONE TOWARDS THE CONNECTOR

NOTE:

1. THIS IS AN INDOOR STRESS CONE AND IS TO BE USED INSIDE ENCLOSURES ONLY (ABOVE GRADE).

SaskPower – DISTRIBUTION STANDARDS

DRN.	A.B.W.	DESIGN CHK.	APPROVAL	STRESS CONE TERMINATION PROCEDURE ON 25 KV CABLE	
CHKD.					
DATE	DATE	DATE			
DATE OF ISSUE			DRAWING NO. B-36-10	SHEET 1 OF 3	REV. A

BILL OF MATERIAL

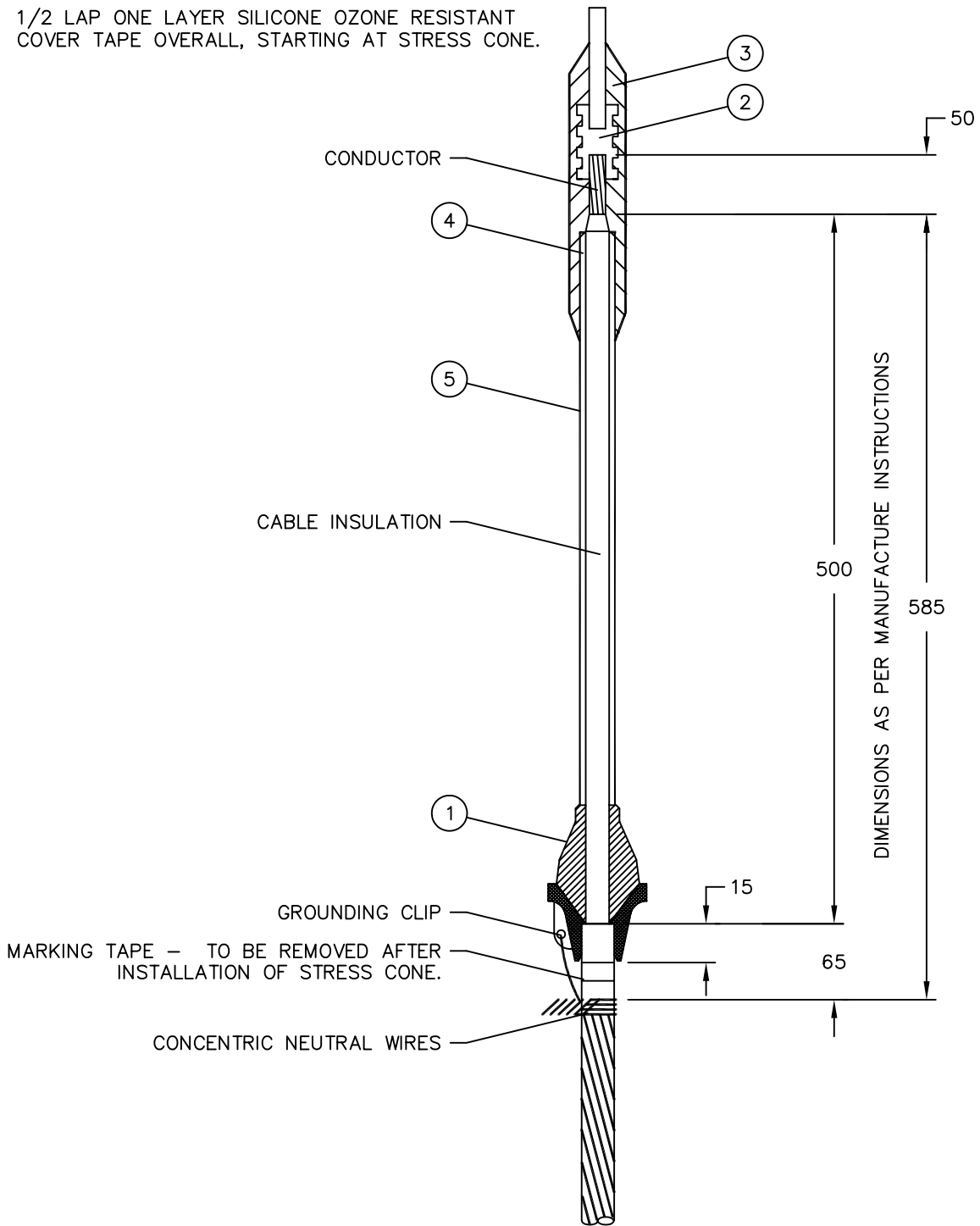
ITEM NO.	CODE NO.	QUANTITY	DESCRIPTION
1	8-35-XX	1	STRESS CONE
2	2-65-XX	1	TERMINAL CONNECTOR
3	7-72-53	0.1	TAPE - SEMI-CONDUCTING
4	71-42-02	0.1	TAPE - HIGH VOLTAGE INSULATING
5	7-72-64	0.4	TAPE - SILICONE OZONE RESISTANT

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DRN.	DESIGN CHK.	APPROVAL	STRESS CONE TERMINATION PROCEDURE ON 25 kV CABLE	
CHKD.				
DATE	DATE	DATE		
DATE OF ISSUE 96-07-26		DRAWING NO: B-36-10	SHEET 2 OF 3	REV. 0

1. FILL CONNECTOR INDENTS WITH ROLLED UP PIECES OF SEMI-CONDUCTING TAPE. COVER CONNECTOR AND EXPOSED CONDUCTOR WITH 1/2 LAPPED LAYER OF THIS TAPE.
2. 1/2 LAP ONE LAYER OF HIGH VOLTAGE INSULATING TAPE TO 2" BELOW EDGE OF PENCILING.
3. 1/2 LAP ONE LAYER SILICONE OZONE RESISTANT COVER TAPE OVERALL, STARTING AT STRESS CONE.



SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower - DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	APPROVAL	STRESS CONE TERMINATION PROCEDURE ON 25kV CABLE	
CHKD.				
DATE	DATE	DATE		
DATE OF ISSUE	DRAWING NO. B-36-10		SHEET 3 of 3	REV. A

A. RECOMMENDED SPLICING PROCEDURE FOR SINGLE TWU 600V CONDUCTORS (COPPER)

1. FORM THE TWO CABLES TO BE JOINTED INTO THEIR FINAL POSITION, ALLOWING THE ENDS TO OVERLAP. MARK CENTRE LINE OF JOINT ON BOTH CABLES AND CUT OFF AT THIS POINT SO THAT THE CABLES BUTT SQUARELY TOGETHER. REMOVE JACKET TO LENGTH SHOWN.
2. REMOVE THE INSULATION FROM BOTH CABLES TO A DISTANCE OF 1/2 THE LENGTH OF THE CONNECTOR PLUS 6mm FROM THE END OF THE CABLE.
3. APPLY COMPRESSION OR SOLDER-TYPE SPLIT TINNED CONNECTOR (USE COMPRESSION TYPE ONLY FOR THERMOPLASTIC INSULATED CABLES.) THE CONNECTOR SHOULD BE SMOOTH WITH NO SHARP EDGES.
4. PENCIL THE INSULATION FOR A DISTANCE OF 4 TIMES ITS THICKNESS (DIMENSION "A"). SANDPAPER MAY BE USED TO BUFF THE TAPERED PORTION TO INSURE A SMOOTH TAPER SO THAT NO VOIDS WILL REMAIN AFTER THE JOINT IS INSULATED. THE SURFACE OF THE INSULATION TO BE TAPED UPON SHOULD ALSO BE SANDPAPERED TO CLEAN THE SURFACES.
5. INSULATE WITH POLYETHYLENE - BASED SPLICING TAPE (71-42-02) APPLIED 1/2 LAP, TO A THICKNESS OVER THE CONNECTOR OF 1 1/2 TIMES THE FACTORY APPLIED INSULATION (DIMENSION T) AND TAPERING OFF OVER THE INSULATION TO A POINT "C" BEYOND THE SHOULDER OF THE TAPER.
6. COVER THE HAND-APPLIED INSULATION AND THE ADJACENT JACKET TO A POINT 1" BEYOND THE SPLICING TAPE, (7-72-33) WITH AT LEAST 2 LAYERS OF 1/2 LAPPED PRESSURE-SENSITIVE THERMOPLASTIC TAPE.

B. RECOMMENDED SPLICING PROCEDURE FOR SINGLE PE 600V CONDUCTOR (ALUMINUM)

1. THE SAME AS A1. SEE ABOVE.
2. THE SAME AS A2. SEE ABOVE.
3. WIRE BRUSH ALUMINUM CONDUCTOR ENDS AND INSTALL COMPRESSION CONNECTOR . REMOVE EXCESS CONTACT AID AFTER CRIMPING. TAPED SPLICE PROCEDURE FOR 600 VOLT CABLE B-36-25, SHT. 2 OF 2.
4. THE SAME AS A4. SEE ABOVE.
5. THE SAME AS A5. SEE ABOVE.
6. THE SAME AS A6. SEE ABOVE.

SASKATCHEWAN POWER CORP. - DISTRIBUTION ENGINEERING STANDARDS

DRN. A.B.W	DESIGN CHK.	SAFETY APP.	APPROVAL	SPLICE PROCEDURES FOR TWU/PEJ INSULATED CONDUCTORS 600 VOLT	
CHKD. <i>FTK</i>					
DATE 87-05-29	DATE	DATE	DATE		
DATE OF ISSUE	87-06-01	DRAWING NO.	B-36-20	SHEET 1 OF 3	REV. 0

METHOD OF TAPE APPLICATION

A. INSULATING TAPE – POLYETHYLENE BASED

1. CUT 150 mm TO 300 mm OF TAPE (TOGETHER WITH THE BACKING) FROM THE ROLL WITH SCISSORS.
2. TRIM ONE END OF THE ABOVE PIECE OF TAPE WITH SCISSORS, SO THAT IT TAPERS FROM ITS NORMAL WIDTH 25 mm FROM THE END OF THE TAPE TO 1/2 THE TAPE WIDTH AT THE END.
3. STRIP BACK THE BACKING TAPE FROM THE POLYETHYLENE TAPE FOR 75 mm.
4. APPLY THE TAPERED END OF THE TAPE TO THE SURFACE TO BE INSULATED, HOLDING IT IN PLACE WITH THUMB PRESSURE, WHILE STARTING TO LAP THE TAPE.
5. LAP THE POLYETHYLENE TAPE ON THE SURFACE USING 1/2 LAP AND SUFFICIENT TENSION TO REDUCE THE WIDTH OF THE TAPE OF HALF ITS ORIGINAL WIDTH. STRIP BACK THE BACKING TAPE AS REQUIRED. KEEP THE TENSION ON THE TAPE EVEN DURING THE WINDING.
6. TERMINATE THE LAPPING, WHEN SUFFICIENT INSULATION HAS BEEN APPLIED, BY HOLDING THE LAST LAP UNDER THE THUMB AND STRETCHING THE TAPE SO THAT IT SNAPS OFF UNDER THE THUMB. BY THIS MEANS THE END OF THE TAPE REMAINS IN PLACE.

NOTE:

AN ALTERNATIVE FASTER METHOD THAT CAN BE USED WHEN SOME EXPERIENCE HAS BEEN GAINED IS TO START THE END OF THE ROLL OF TAPE WITH THE PVC BACKING PULLED BACK 75 mm. STAND AT THE SIDE OF THE JOB AND APPLY THE TAPE WITH THE BACKING SIDE TOWARDS THE JOB PASSING THE ROLL FROM HAND TO HAND AROUND THE CABLE. STRETCHING THE TAPE AS IT IS APPLIED WILL CAUSE THE PVC BACKING TO COME AWAY AND IT MAY BE CUT OFF AT INTERVALS AS APPLICATION PROCEEDS. APPLY WITH 1/2 LAP AS ABOVE.

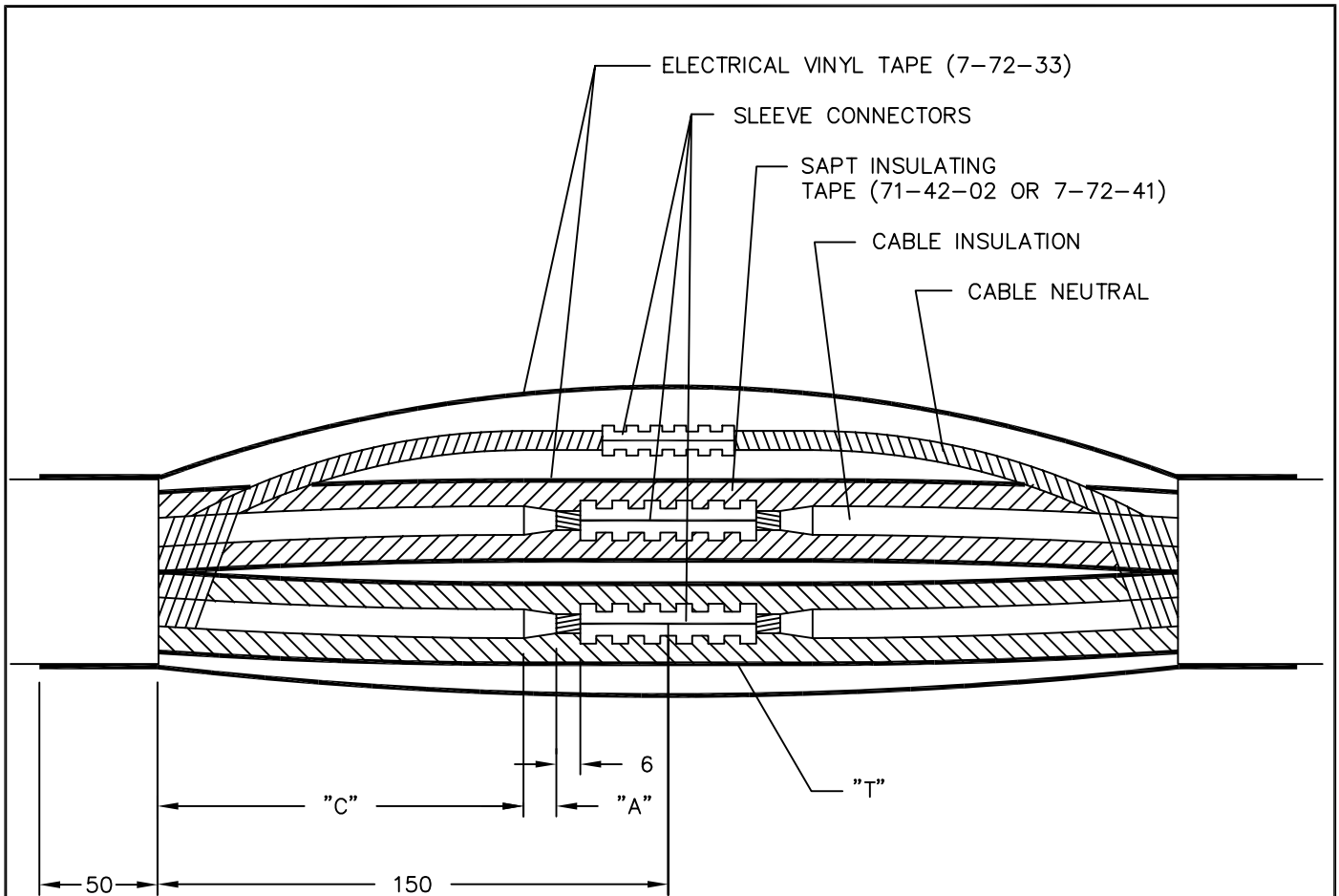
B. JACKETING TAPE – PRESSURE – SENSITIVE THERMOPLASTIC – 7-72-33

1. DURING APPLICATION STRETCH THE TAPE SUFFICIENT TO MAKE IT CONFORM TO THE UNDERLYING SURFACE.
2. THE LAST LAYER OF THIS TAPE SHOULD BE APPLIED WITH MINIMUM TENSION TO PREVENT CREEP BACK.

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SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN. A.B.W	DESIGN CHK.	SAFETY APP.	APPROVAL	SPLICE PROCEDURES FOR TWU/PEJ INSULATED CONDUCTORS 600 VOLT	
CHKD. <i>FTK</i>					
DATE 87-05-29	DATE	DATE	DATE		
DATE OF ISSUE 87-06-01			DRAWING NO. B-36-20	SHEET 2 OF 3	REV. 0



CABLE SIZE AWG OR kcmil	DIM. "A" APPROX. 4 x INSULATION THICKNESS	DIM. "C"	DIM. "T" APPROX. 1 1/2 x INSULATION THICKNESS
AL. 1/0 CU - #2 & #6 OR #8	10	65	5

NOTES:

- 1) VIEW SHOWS ALL CONDUCTORS IN ONE PLANE FOR CLARITY.
- 2) REFER TO DWG. B-36-39 FOR SPLICING SLEEVE.

SCALE: N.T.S. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower - DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	APPROVAL	SPLICE PROCEDURES FOR TWU/PEJ INSULATED CONDUCTORS 600 VOLT
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE	DRAWING NO. B-36-20	SHEET 3 of 3	REV. A

TAPE SPLICE PROCEDURE FOR 600V CABLE

1. REMOVE THE OUTER INSULATION FROM EACH CABLE TO BE SPLICED, EXPOSING THE CONCENTRIC NEUTRAL A DISTANCE OF 150 mm FROM THE END OF THE CABLE. TWIST THE CONCENTRIC NEUTRAL STRANDS TIGHTLY TOGETHER TO FORM A STRANDED NEUTRAL CONDUCTOR.
2. FORM THE TWO CABLES TO BE JOINED INTO THEIR FINAL POSITION, ALLOWING THE ENDS TO OVERLAP. MARK THE CENTRE LINE OF THE JOINT ON BOTH CABLES AND CUT OFF AT THIS POINT, THE CABLES BUTT SQUARELY TOGETHER.

A. FOR THE LINE CONDUCTORS

3. REMOVE THE INSULATION FROM THE CONDUCTORS TO A DISTANCE OF ONE-HALF THE LENGTH OF THE CONNECTOR PLUS 6 mm FROM THE END OF THE CONDUCTOR.
4. APPLY THE COMPRESSION TYPE CONNECTORS TO EACH CONDUCTOR, REMOVING ALL SHARP EDGES FROM THE CONNECTOR.
5. PENCIL THE INSULATION OF THE CONDUCTORS FOR A DISTANCE OF FOUR TIMES ITS THICKNESS (DIMENSION "A"). SANDPAPER MAY BE USED TO BUFF THE TAPERED PORTION TO ENSURE A SMOOTH TAPER SO THAT NO VOIDS WILL REMAIN AFTER THE JOINT IS INSULATED. THE SURFACE OF THE INSULATION (DIMENSION "C") SHOULD BE SANDPAPERED TO CLEAN THE SURFACE.
6. INSULATE WITH POLYETHELENE – BASTE SPLICING TAPE TO A THICKNESS OF ONE AND ONE-HALF TIMES THE FACTORY APPLIED INSULATION (DIMENSION "T"), AND TAPERING OFF OVER THE INSULATION TO A POINT "C" BEYOND THE SHOULDER OF THE PENCILLED INSULATION (71-42-02).
7. COVER THE HAND APPLIED INSULATION WITH AT LEAST TWO LAYERS OF ONE-HALF LAPPED PRESSURE SENSITIVE THERMOPLASTIC TAPE (7-72-33).

FOR METHOD OF TAPE APPLICATION REFER TO "SPLICE PROCEDURE FOR TWU/PE INSULATED CONDUCTORS 600V", B-36-20, SHT. 2 OF 3.

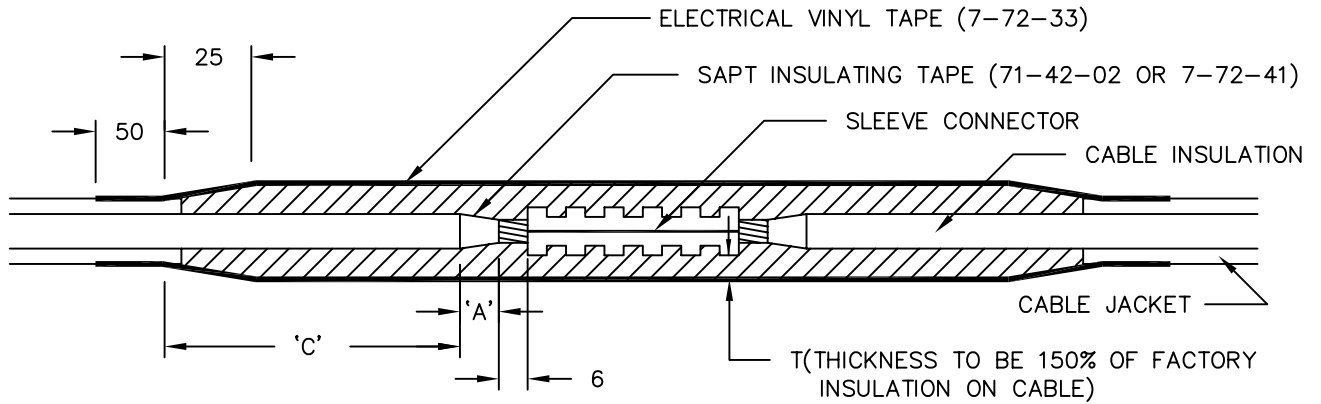
B. FOR THE COPPER CONCENTRIC NEUTRAL CONDUCTOR

8. APPLY THE COMPRESSION TYPE CONNECTOR TO THE BUNDLE OF THE NEUTRAL STRANDS, REMOVING ALL SHARP EDGES FROM THE CONNECTOR.
9. BUNDLE ALL CONDUCTORS TOGETHER AND COVER ALL CONDUCTORS AND THE CABLE JACKET TO A POINT 50 mm BEYOND THE CUT EDGE WITH AT LEAST FOUR LAYERS OF ONE-HALF LAPPED PRESSURE SENSITIVE THERMOPLASTIC, TAPE 7-72-33.

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SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN. A.B.W	DESIGN CHK.	SAFETY APP.	APPROVAL	TAPE SPLICE PROCEDURE FOR 600 VOLT CABLE
CHKD. <i>FTK</i>				
DATE 87-05-29	DATE	DATE	DATE	
DATE OF ISSUE 87-06-01		DRAWING NO. B-36-25		SHEET 1 of 2
				REV. 0



CABLE SIZE AWG OR kcmil	DIM. 'A' APPROX. 4 x INSULATION THICKNESS	DIM. 'c'	DIM. 'T' APPROX. 1.5 x INSULATION THICKNESS	APPROX. TAPE QTY.	
				71-42-02 OR 7-72-41	7-72-33
#10	6	65	5	1/4 ROLL	1/2 ROLL
#8 - #4/0	10	65	5	1/2 ROLL	1 ROLL
250 - 500	15	75	5	3/4 ROLL	1 ROLL
600 - 1000	15	90	5	1 ROLL	1 1/4 ROLLS

NOTE:

- 1) INDICATE LOCATION OF ALL SPLICES ON AS-BUILT DRAWINGS.
- 2) REFER TO DRAWING B-36-39 FOR SPLICING SLEEVE.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower - DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	APPROVAL	TAPED SPLICE PROCEDURE FOR 600 VOLT CABLE
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE	DRAWING NO. B-36-25	SHEET 2 of 2	REV. A

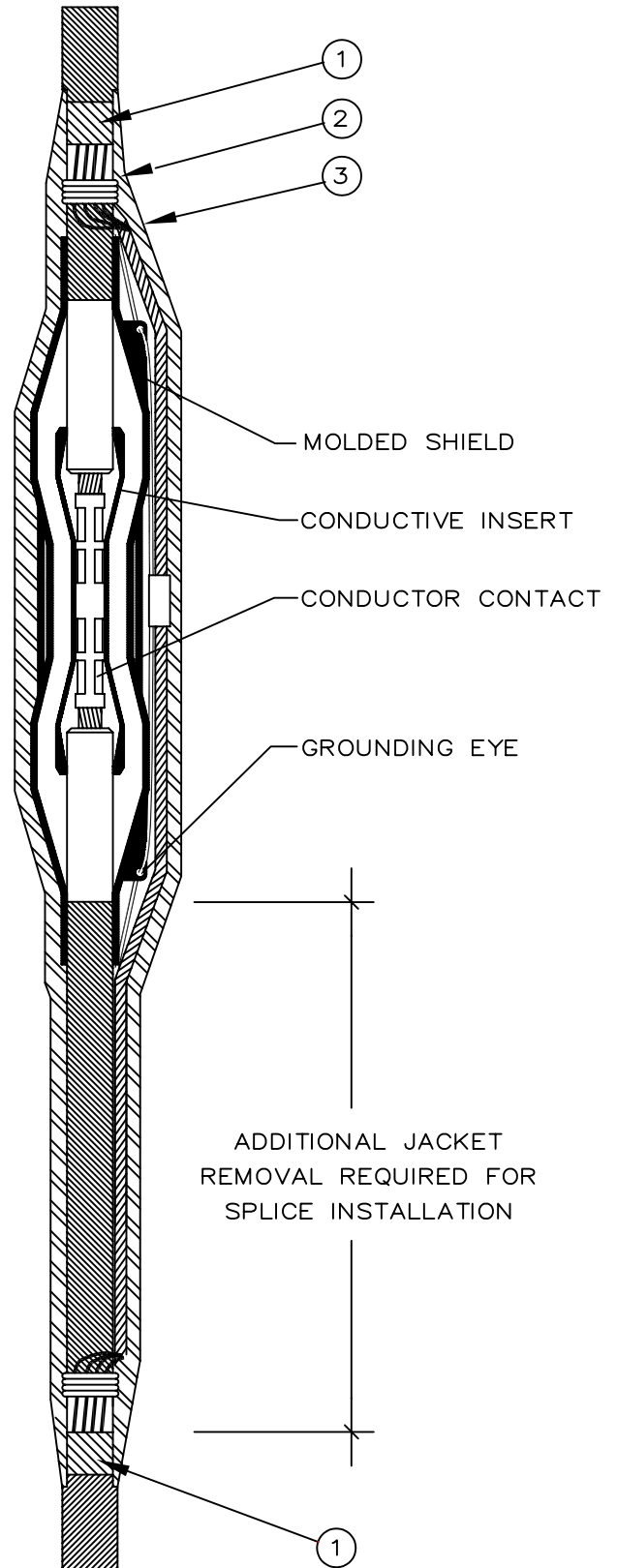
BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY			DESCRIPTION
		A	B	C	
	2-68-23	1	--	--	JACKET COVER KIT - REMOVEABLE CORE #1 & 4/0
	2-68-13	1	--	--	JACKET COVER KIT - REMOVEABLE CORE 500 kcmil
	2-68-03	--	1	--	JACKET COVER - HEAT SHRINK TUBING
1	7-72-43	--	0.1	0.1	TAPE - RUBBER MASTIC 2" x 10'
2	7-72-41	--	--	0.5	TAPE - SAPT 2" x 30'
3	7-72-33	--	--	0.5	TAPE - ELECTRICAL 3/4" x 66'
					<p>NOTE:</p> <p>1. COLUMN A IS FOR A REMOVEABLE CORE KIT.</p> <p>2. COLUMN B IS FOR A HEAT SHRINK TUBING.</p> <p>3. COLUMN C IS FOR A TAPED JACKET COVERING.</p>

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DRN.	DESIGN CHK.	APPROVAL	SEALING JACKETED C/N CABLE AT THE SPLICE	
CHKD.		DATE		
DATE	DATE			
DATE OF ISSUE 00-07-21		DRAWING NO: B-36-26	SHEET 1 OF 2	REV. A



PROCEDURE

1. THREE WRAPS OF RUBBER MASTIC TAPE (BOTH ENDS), OVER OUTSIDE JACKET. (THIS FORMS A SEAL) FOR SPLICING TO UNJACKETED CABLE THE RUBBER MASTIC IS WRAPPED AROUND THE BARE CONCENTRIC NEUTRAL WIRES.
2. ONE, 1/2 OVERLAPED LAYER OF SAPT TYPE EPR STARTING OVER THE RUBBER MASTIC TAPE CONTINUING TO OTHER END. (THIS INSULATES THE SPLICE)
3. ONE, 1/2 OVERLAPPED LAYER OF ELECTRICAL VINYL OVER THE SAPT. (THIS MECHANICALLY PROTECTS)

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS

DRN. M.T.S.	DESIGN CHK.	APPROVAL	SEALING JACKETED C/N CABLE AT THE SPLICE
CHKD.			
DATE 93-06-10	DATE	DATE	
DATE OF ISSUE	DRAWING NO. B-36-26	SHEET 2 of 2	REV. A

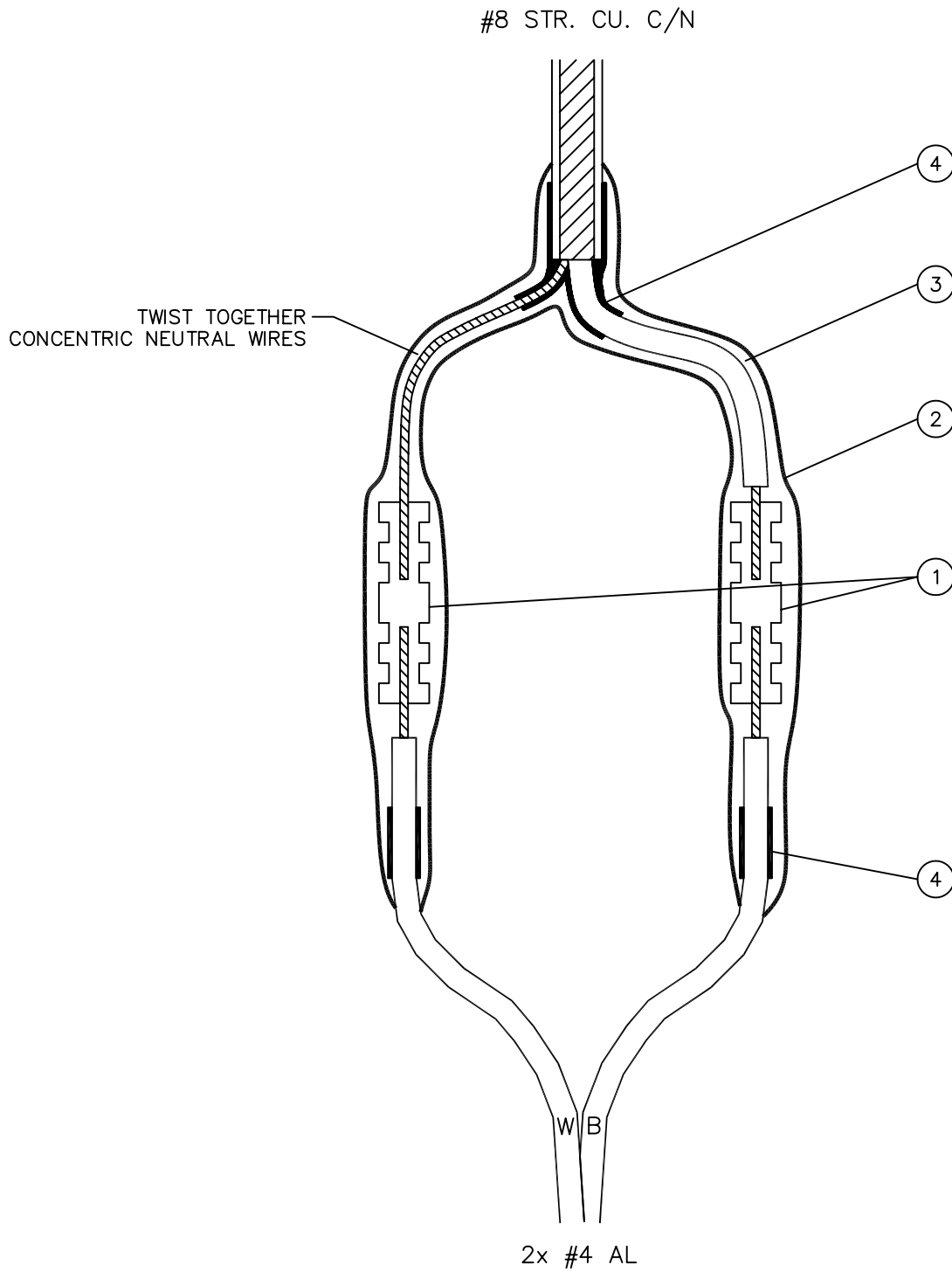
BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY	DESCRIPTION
1	2-65-24	2	SLEEVE - COMPRESSION #8 - #4 TRANSITION
2	7-72-33	0.5	TAPE - ELECTRICAL 3/4" x 66'
3	7-72-41	0.2	TAPE - SAPT 2" x 30'
3	71-42-02	0.5	TAPE - SAPT 3/4" x 30'
4	7-72-43	0.2	TAPE - RUBBER MASTIC 2" x 10'

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SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	STREET LIGHT TRANSITION SPLICE
CHKD.			
DATE	DATE	DATE	
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TAPE PROCEDURE

1. APPLY MASTIC (THIS FORMS A SEAL).
2. APPLY SPT (THIS INSULATES THE SPLICE).
3. APPLY ELECTRICAL VINYL (THIS MECHANICALLY PROTECTS).

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DRN. R. LANG	DESIGN CHK.	APPROVAL	STREET LIGHT TRANSITION SPLICE
CHKD.			
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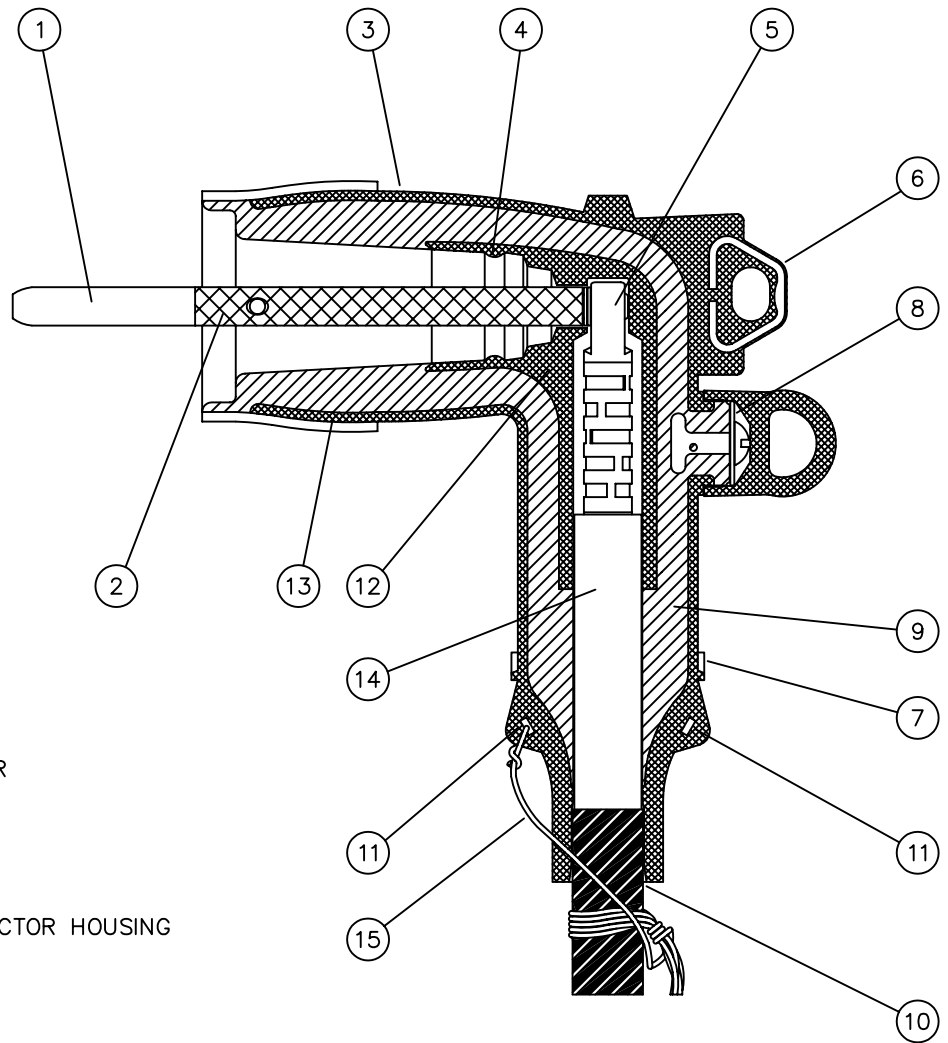
ELBOW INSTALLATION

1. SUFFICIENT CABLE SLACK
 - A. INSURE SUFFICIENT CABLE SLACK FOR, FINAL ASSEMBLED POSITION, ELBOW REMOVE, AND ELBOW INSTALLATION.
2. CABLE PREPARATION
 - A. FOLLOW "ENCLOSED INSTRUCTIONS" WITH ELBOW FOR "CORRECT" CONDUCTOR STRIPPING "MEASUREMENTS" AND INSTALLATION.
 - B. UNWRAP CONCENTRIC NEUTRAL WIRES BACK, CRIMP AND TAPE.
 - C. CONDUCTOR INSULATION REMOVAL IS "CUT SQUARELY, AND NOT PENCILED".
 - D. REMOVE SEMI-CONDUCTING JACKET AND WIRE BRUSH ALUMINUM.
 - E. INSERT CONDUCTOR CONTACT CONTAINING INHIBITOR INSURING THE "FLAT CONTACT AREA FACES THE BUSHING PLUG".
 - F. WIPE EXCESS INHIBITOR AND CONTAMINANTS FROM CABLE INSULATION AND CONTACT.
 - G. REMOVE EXTRUDED INSULATION SHIELD WITH A SMOOTH STRAIGHT SQUARE CUT, "DO NOT NICK EXISTING INSULATION".
 - H. THOROUGHLY CLEAN THE INSULATION TO REMOVE ALL TRACES OF CONDUCTIVE RESIDUE.
 - I. APPLY A SMALL AMOUNT OF THE SUPPLIED SILICONE GREASE TO THE CABLE AND INSIDE OF THE ELBOW.
3. ELBOW CONNECTOR & PROBE
 - A. SLIDE THE ELBOW CONNECTOR ONTO THE CABLE UNTIL IT CAN NOT ADVANCE ANY FARTHER.
 - B. PUT THE BELLEVILLE WASHERS IN PLACE AND INSTALL PROBE. "ENSURE PROPER ALIGNMENT OF THREADS".
 - C. TIGHTEN PROBE INTO CONNECTOR UNTIL "WRENCH BENDS"
4. CONCENTRIC NEUTRAL
 - A. INSERT ONE STRAND OF THE CONCENTRIC NEUTRAL INTO THE GROUNDING EYE OF THE ELBOW, MAKE A LOOP AND TWIST TOGETHER.
 - B. TWIST THE CONCENTRIC NEUTRAL WIRES TOGETHER AND CONNECT IT TO THE TRANSFORMER GROUNDING LOOP WITH A COMPRESSION CONNECTOR.
5. BUSHING
 - A. TWO PIECE TRANSFORMER BUSHINGS SHALL BE PROPERLY GROUNDED.
 - B. COMPLETELY CLEAN BUSHING AND LIGHTLY GREASE WITH SUPPLIED SILICONE GREASE BEFORE INSTALLING ELBOW.

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SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN.	C.D.F.	DESIGN CHK.	SAFETY APP.	APPROVAL	ELBOW 25 kV LOADBREAK	
CHKD.	<i>FTK</i>					
DATE	87-05-29	DATE	DATE	DATE		
DATE OF ISSUE	87-06-01		DRAWING NO.	B-36-30	SHEET 1 of 2	REV. 0



- ① ARC FOLLOWER
- ② PROBE
- ③ ELBOW CONNECTOR HOUSING
- ④ LOCKING RING
- ⑤ CONDUCTOR CONNECTOR
- ⑥ HOT-STICK EYE
- ⑦ IDENTIFICATION BAND
Identifies elbow as a loadbreak device.
- ⑧ VOLTAGE TEST POINT
Protective cap removable with a hotstick.
- ⑨ MOLDED STRESS RELIEF
- ⑩ CABLE ENTRANCE
- ⑪ GROUNDING EYES
- ⑫ MOLDED CONDUCTIVE INSERT
- ⑬ MOLDED CONDUCTIVE SHIELD
- ⑭ XLPE INSULATION
- ⑮ CONCENTRIC NEUTRAL

NOTE:
REFER TO B-36-42 FOR MATERIAL STOCK CODE

SaskPower - DISTRIBUTION STANDARDS

DRN. <i>B</i>	DESIGN CHK.	APPROVAL	ELBOW 25 KV LOADBREAK	
CHKD. <i>FTK</i>				
DATE 87-02-02	DATE	DATE		
DATE OF ISSUE	DRAWING NO. B-36-30	SHEET 2 of 2	REV. A	

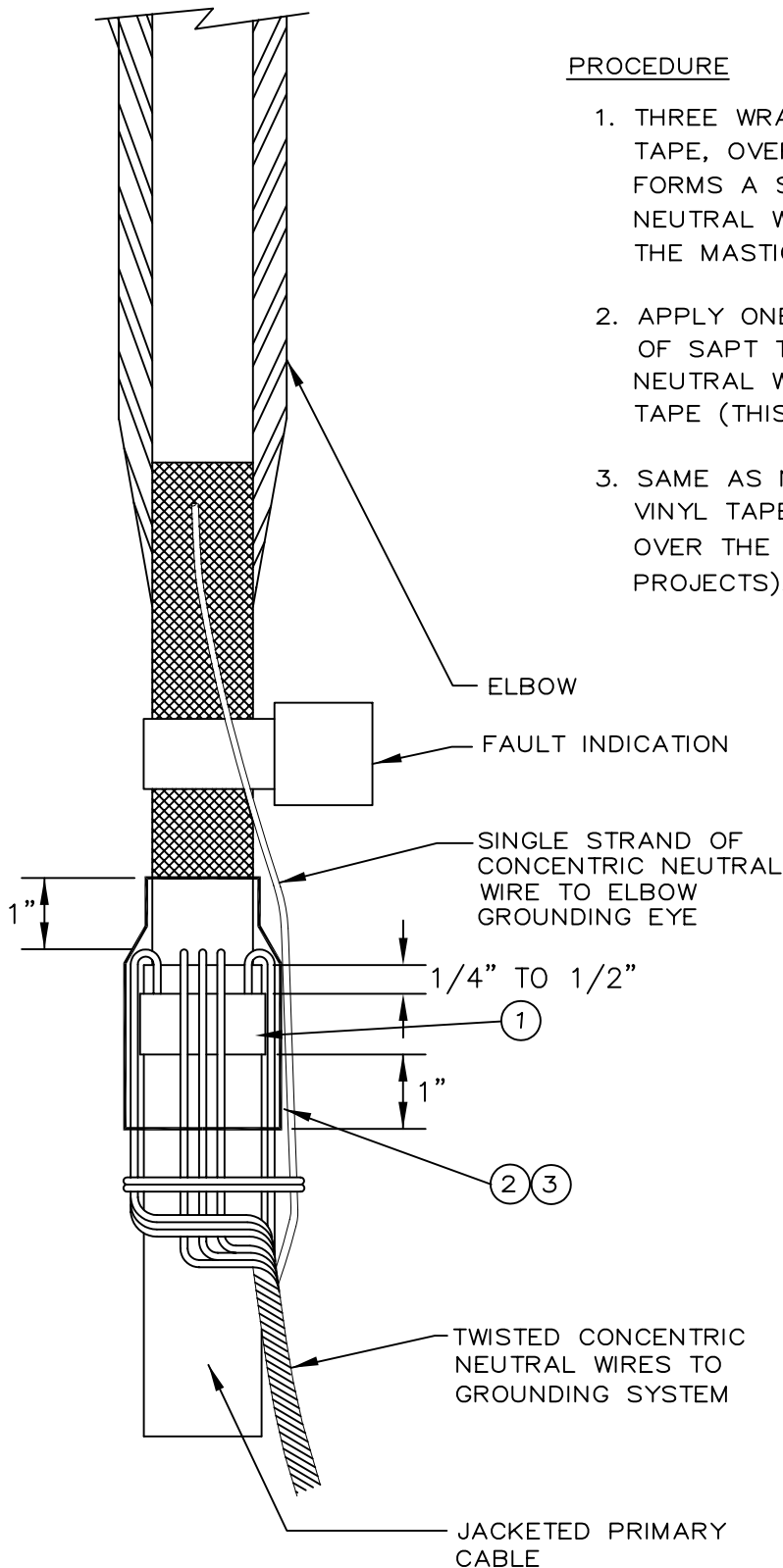
BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY	DESCRIPTION
1	7-72-43	0.1	TAPE-RUBBER MASTIC 2" x 10'
2	7-72-41	0.1	TAPE-SAPT 2" x 30'
3	7-72-33	0.1	TAPE-ELECTRICAL 3/4" x 66'

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SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	<p align="center">SEALING JACKETED C/N CABLE AT THE ELBOW</p>	
CHKD.				
DATE	DATE	DATE		
DATE OF ISSUE 93-07-12		DRAWING NO: B-36-31	Sheet 1 of 2	REV. 0



PROCEDURE

1. THREE WRAPS OF RUBBER MASTIC TAPE, OVER OUTSIDE JACKET (THIS FORMS A SEAL). THE CONCENTRIC NEUTRAL WIRES ARE BENT BACK OVER THE MASTIC AND TWISTED AS SHOWN
2. APPLY ONE, 1/2 OVERLAPPED LAYER OF SAPT TYPE EPR, FROM 1" ABOVE NEUTRAL WIRES TO 1" BELOW MASTIC TAPE (THIS INSULATES THE SPLICE).
3. SAME AS No. 2 WITH ELECTRICAL VINYL TAPE, CODE 7-72-33 OVER OVER THE SAPT. (THIS MECHANICALLY PROJECTS).

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS

DRN. M.T.S.	DESIGN CHK.	APPROVAL	SEALING JACKETED C/N CABLE AT THE ELBOW
CHKD.			
DATE 93-06-10	DATE	DATE	
DATE OF ISSUE	DRAWING NO. B-36-31	SHEET 2 of 2	REV. A

FOR COMBINATIONS OF ACSR, AL, & CU.

GROOVE "A"			GROOVE "B"			CONNECTOR	TOOL & DIE NO.
SOLID CU.	STR. AL & CU	ACSR	SOLID CU.	STR. AL & CU	ACSR		
#4,2	#6,4,2	#6,4,2	#14,12,10,8	#14,12,10,8	#14,12,10,8	5-09-00	MD-6/BG
#6,4,2	#6,4	#6,4	#6,4,2	#6,4	#6,4	5-09-26	MD-6/WO
#1,1/0,2/0	#4,2,1,1/0	#4,2,1,1/0	#2,1,1/0	#6,4,2,1	#6,4,2	5-09-27	MD-6/WO
2/0,3/0,4/0	#1,1/0,2/0,3/0	#1,1/0,2/0	2/0,3/0	#1,1/0,2/0	#1,1/0,2/0	5-09-10	MD-6/D3
3/0,4/0	2/0,3/0	1/0,2/0	#6,4,2,1,1/0	#6,4,2,1	#6,4,2	5-09-25	MD-6/D3
2/0,3/0	3/0,4/0	3/0,4/0	2/0,3/0	#1,1/0,2/0	#1,1/0,2/0	5-09-15	MD-6/D3
2/0,3/0	4/0	3/0,4/0	#6,4,2,1,1/0	#6,4,2,1	#6,4,2	5-09-23	MD-6/D3
—	3/0,4/0	3/0,4/0	—	3/0,4/0	3/0,4/0	5-09-29	MD-6/D3
350	350	366,477	#6,4,2	#6,4	#6,4	5-09-40	Y35/N
500	500	477,556	#6,4,2	#6,4	#6,4	5-09-44	Y35/N
350,500	4/0,350,500	4/0,266,336,477	350,500	4/0,350,500	4/0,266,336,477	5-09-48	Y35/N

FOR COPPER-COPPER

COPPER CONDUCTOR	CONNECTOR	TOOL & DIE NO.	
		MD-6	Y-35
#8 STR. & SOL. - #10,8 STR. & SOL.	5-12-03	W 162	—
#6,4 STR. & SOL. - #8 STR. & SOL.	5-12-04	BG	BG
#6,4 STR. & SOL. - #6 STR. & SOL.	5-12-05	BG	BG
#4 STR. & SOL. - #6,4 STR. & SOL.	5-12-06	BG	BG
#2 STR. & SOL. - #8,6,4 STR. & SOL.	5-12-08	WC	C
#2 STR. & SOL. - #6 STR. & SOL.	5-12-07	WC	C
#2 STR. & SOL. - #2 STR. & SOL.	5-12-01	WC	C
1/0, 2/0 STR. - #4 STR. & SOL.	5-12-09	—	E/0
1/0, 2/0 STR. - #2 STR. & SOL.	5-12-25	—	0
1/0, 2/0 STR. - 1/0, 2/0 STR.	5-12-10	—	0
3/0, 4/0 STR. - #4,2 STR. & SOL.	5-12-02	—	D3
3/0, 4/0 STR. - 3/0, 4/0 STR.	5-12-28	—	D3

SaskPower - DISTRIBUTION ENGINEERING STANDARDS

DRN. DK	DESIGN CHK.	SAFETY APP.	APPROVAL	COMPRESSION CONNECTORS LINE TAP FOR AL - CU & CU - CU
CHKD.				
DATE 92-06-26	DATE	DATE	DATE	
DATE OF ISSUE	DRAWING NO. B-36-38		SHEET 1 of 1	REV. A

COMPRESSION SLEEVES FOR COPPER

CONDUCTOR	SLEEVE	TOOL AND DIE NO.	
		MD – 6	Y – 35
#8 CU STR.	5 11 10	INSULINK.	
#6 CU STR.	2 65 26	W161	161
#4 CU STR.	2 66 35	W162	162
#2 CU STR.	2 66 70	W163	163
1/0 CU STR.	2 65 20	W165	165
2/0 CU STR.	2 66 72	W166	166
3/0 CU STR.	2 65 30	—	167
4/0 CU STR.	2 65 40	—	168
350 kcmil to 4/0 CU/AL	2 65 48	—	U31ART
350 kcmil CU STR.	2 65 49	—	U31ART
500 kcmil CU STR.	2 65 51	—	U34ART
500 kcmil to 4/0 CU/AL	2 65 52	—	U34ART

COMPRESSION SLEEVES FOR ALUMINUM

CONDUCTOR	SLEEVE	TOOL AND DIE NO.	
		MD – 6	Y – 35
#4 AL	2 65 41	BG/243	BG/243
#2 AL	2 65 42	BG/243	BG/243
1/0 AL	2 65 44		U25ART
2/0 AL	2 65 45		U26ART
3/0 AL	2 65 46		U27ART
4/0 AL	2 65 47		U28ART
350 kcmil to 4/0 AL/CU	2 65 48		U31ART
350 kcmil	2 65 49		U31ART
500 kcmil	2 65 51		U34ART
500 kcmil to 4/0 AL/CU	2 65 52		U34ART

METERING & TRANSFORMER SPADE TERMINALS FOR AL & CU (1 HOLE 1/2" STUD SIZE)

CONDUCTOR	SPADE TERMINAL	TOOL AND DIE NO.	
		MD – 6	Y – 35
#4 STR. OR SOLID	2 65 94	BG/W243	BG/243
#2 STR. OR SOLID	2 65 83	BG/W243	BG/243
1/0 STR. OR S.B.	2 65 84	BG/W243	BG/243
2/0 STR.	2 65 85	W249	249
3/0 STR.	2 65 86	W249	249
4/0 STR.	2 65 87	W249	249

SaskPower - DISTRIBUTION STANDARDS

APPROVAL L MOEN	DESIGN CHK P PATEL	DRN. PP CHKD. LM 2021-09-22	COMPRESSION CONNECTORS AND HYLUGS
DATE OF ISSUE: 2022-01-10			
DRAWING NO: B-36-39		SHEET 1 of 2	REV. D

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**TRANSFORMER SPADE TERMINALS FOR AL AND CU
(2 HOLE 1/2" STUD SIZE)**

CONDUCTOR	SPADE TERMINAL	TOOL AND DIE NO.	
		MD-6	Y-35
2/0	2 65 95	W249	249
4/0	2 65 97	W249	249
350 KCMIL	2 65 89	-	U31ART
500 KCMIL	2 65 91	-	U34ART

**METERING SPADE TERMINALS FOR AL AND CU
(1 HOLE 1/2" STUD SIZE)**

CONDUCTOR	SPADE TERMINAL	TOOL AND DIE NO.	
		MD-6	Y-35
350 KCMIL	2 65 88	-	U31ART
500 KCMIL	2 65 90	-	U34ART

TRANSITION COMPRESSION SLEEVES FOR AL AND CU

CONDUCTOR	TRANSITION SLEEVE	TOOL AND DIE NO.	
		MD-6	Y-35
#8 CU TO #4 AL	2 65 24	BG	BG
#8 CU TO #4 AL	5 11 13 (INSULINK)	BG	BG

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SaskPower - DISTRIBUTION STANDARDS

APPROVAL L. MOEN	DESIGN CHK A. UHREN	DRN. ARU CHKD. 2015-09-29	COMPRESSION CONNECTORS AND HYLUGS
DATE OF ISSUE: 2016/02/05	DRAWING NO: B-36-39	SHEET 2 of 2	
			REV. D

**SPLICES AND TERMINATORS
FOR 25 kV XLPE CONCENTRIC NEUTRAL PRIMARY CABLES**

CONDUCTOR CODE	DESCRIPTION	SPLICE	TERMINATOR	SPLICE COVER
2 92 26	#4 AL SOLID XLc	2 68 07	8 35 34	N/A
2 92 25 2 94 22	#2 AL SOLID XLc #2 AL SOLID XLcJ	2 68 06	8 35 36	2 68 23
2 92 22	#1 AL COMPACT XLcJ	2 68 02	8 35 06	2 68 23
2 92 24	4/0 AL COMPACT XLcJ	2 68 08	8 35 30	2 68 23
2 94 25	500 CU COMPRESSED XLc	2 68 15	8 35 28	2 68 13
2 94 33	#1 AL SOLID XLcJ	2 68 71	8 35 06	2 68 23
2 94 36	4/0 AL COMPACT XLcJ	2 68 74	8 35 31	2 68 23
2 94 37	500 AL COMPACT XLcJ	2 68 78	8 35 29	2 68 13
2 94 38	500 CU COMPACT XLcJ	2 68 75	8 35 29	2 68 13

**TRANSITION SPLICES
FOR 25 kV XLPE CONCENTRIC NEUTRAL PRIMARY CABLES**

CONDUCTOR CODE	DESCRIPTION	TRANSITION SPLICE	SPLICE COVER
2 92 22 TO 2 94 33	#1 AL COMPRESSED XLcJ TO #1 AL SOLID XLcJ	2 68 72	2 68 23
2 94 25 TO 2 94 38	500 CU COMPRESSED XLc TO 500 CU COMPACT XLcJ	2 68 76	2 68 13

**REPAIR SPLICES
FOR 25kV XLPE CONCENTRIC NEUTRAL PRIMARY CABLES**

CONDUCTOR CODE	DESCRIPTION	REPAIR SPLICE	SPLICE COVER
2 92 22 2 94 33	#1 AL COMPACT XLcJ #1 AL SOLID XLcJ	2 68 81	2 68 23
2 94 22	#2 AL SOLID XLcJ	2 68 82	2 68 23

ABBREVIATION SYMBOLS

XL – CROSS LINKED POLYETHYLENE

c – CONCENTRIC NEUTRAL

J – JACKET

SaskPower - DISTRIBUTION STANDARDS

APPROVAL M. ERETH	DESIGN CHK L. BAILEY	DRN. LB CHKD. 2013-10-17	PRIMARY CABLE SPLICES AND TERMINATIONS
DATE OF ISSUE: 2014/03/21	DRAWING NO: B-36-40	SHEET 1 of 1	

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CABLE TYPE – 25 kV XLPE. CONCENTRIC NEUTRAL

DESCRIPTION	CONDUCTOR CODE	ELBOW	FT BUSHING	XFR BUSHING	XFR BUSHING W/INSERT	DEADEND PLUG
# 2 AL SOLID XLc	2 92 25	5 80 32	5 79 40	5 79 10	5 79 12	5 79 47 5 79 14
# 1 AL COMPRESSED XLc (OBSOLETE)	2 92 22	5 79 35	5 79 40	5 79 10	5 79 12	5 79 47 5 79 14
4/0 AL COMPACT XLc	2 92 24	5 80 35	5 79 40	5 79 10	5 79 12	5 79 47 5 79 14
# 1 AL SOLID XLcJ	2 94 33	5 79 34	5 79 40	5 79 10	5 79 12	5 79 47 5 79 14
4/0 AL COMPACT XLcJ	2 94 36	5 80 35	5 79 40	5 79 10	5 79 12	5 79 47 5 79 14

NOTE:

1. TOP CODE # REFERS TO PHASE CONDUCTOR.
2. BOTTOM CODE # REFERS TO NEUTRAL CONDUCTOR.
3. FOR PILC CABLE, FIRST CONVERT TO XLPE THEN USE XLPE ACCESSORIES IN ABOVE TABLE.

ABBREVIATION SYMBOLS

XFR – TRANSFORMER
 FT – FEED THROUGH
 XL – CROSS LINKED POLYETHYLENE
 C – CONCENTRIC NEUTRAL
 J – JACKET

SCALE: N.T.S ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED

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SaskPower - DISTRIBUTION STANDARDS				
APPROVAL	DESIGN CHK	DRN. BHG	LOAD-BREAK COMPONENTS	
L. MOEN	B. GEBHART	CHKD.		
		2020-02-12		
DATE OF ISSUE: 2020/05/12		DRAWING NO: B-36-42		SHEET 1 of 1 REV. D

CABLE TYPE – 25 kV XPLE, CONCENTRIC NEUTRAL

CABLE SIZE	CABLE	ELBOW	T-CONNECTORS AND PLUG	XFR BUSHING	XFR BUSHING W/ INSERT	DEAD END PLUG
# 2 AL UNJACKETED	2-92-25	5-83-22	5-83-38 5-83-42	—	5-83-12	5-83-35 5-83-50
# 1 AL UNJACKETED	2-92-22	5-83-35	5-83-38 5-83-42	—	5-83-12	5-83-35 5-83-50
# 1 Cu PVC J	2-92-21	5-83-35	5-83-38 5-83-42	—	5-83-12	5-83-35 5-83-50
4/0 AL UNJACKETED	2-92-24	5-83-34	5-83-38 5-83-42	—	5-83-12	5-83-35 5-83-50

NOTE:

1. TOP CODE # REFERS TO PHASE CONDUCTOR.
2. BOTTOM CODE # REFERS TO NEUTRAL CONDUCTOR.
3. FOR PILC CABLE, FIRST CONVERT TO XLPE THEN USE XLPE ACCESSORIES IN ABOVE TABLE.

ABBREVIATION SYMBOLS

XFR – TRANSFORMER

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	SAFETY APP.	APPROVAL	DEAD-BREAK COMPONENTS	
CHKD. <i>FTK</i>					
DATE 87-12-01	DATE	DATE	DATE		
DATE OF ISSUE			DRAWING NO. B-36-43	SHEET 1 of 1	REV. B

CONDUCTOR CODE	DESCRIPTION	COMPRESSION SLEEVE	HYLUG
2-92-78	1 x # 8 Cu 600V c.n. J	2-66-06	—
2-92-86	2 x # 2 Cu 600V c.n. J USEB-90	2-66-70 2-66-35	2-65-83 2-65-94
2-92-93	2 x 1/0 Cu 600V c.n. J USEB-90	2-65-20 2-66-35	2-65-83 2-65-94
2-95-96	# 6 Cu 600V TWU	2-65-26	—
2-95-94	# 4 Cu 600V TWU	2-66-35	2-65-94
2-95-93	# 2 Cu 600V TWU	2-66-70	2-65-83
2-96-28	1/0 Cu 600V TWU	2-65-20	2-65-84
2-96-39	3/0 Cu 600V TWU	2-65-30	2-65-86
2-96-41	4/0 Cu 600V TWU	2-65-40	2-65-87
2-96-44	2 x 4/0 AL, 1 x 2/0 AL 600V J	2-65-47 2-65-45	2-65-87 2-65-85
2-96-46	2 x 350 AL, 1 x 3/0 AL 600V J	2-65-49 2-65-46	2-65-89 2-65-86
2-96-48	2 x 500 AL, 1 x 4/0 AL 600V J	2-65-51 2-65-47	2-65-91 2-65-87
2-93-35	350 AL 600V PE J	2-65-49	2-65-89
2-93-50	500 AL 600V PE J	2-65-51	2-65-91
2-92-82	2 X 500 AL 1000V CN J USEB-90	2-65-51	2-65-91
2-92-83	3 X 500 AL 1000V CN J USEB-90	2-65-51	2-65-91

NOTE:

1. TOP CODE # REFERS TO PHASE CONDUCTOR
2. BOTTOM CODE # REFERS TO NEUTRAL CONDUCTOR

— FOR MAINTENANCE ONLY —

SaskPower – DISTRIBUTION STANDARDS

DRN. M.T.S.	DESIGN CHK.	SAFETY APP.	APPROVAL	SECONDARY CABLE CONNECTORS & TERMINATIONS	
CHKD.					
DATE	DATE	DATE	DATE		
DATE OF ISSUE			DRAWING NO. B-36-44	SHEET 1 OF 2	REV. A

CABLE TYPE – USC75/USE190 SECONDARY

CONDUCTOR CODE	DESCRIPTION	COMPRESSION SLEEVE	HYLUG
2 94 51	2 x #4 AL 600V XLPE J	2 65 41	—————
2 94 62	3 x #2 AL 600V XLPE J	2 65 42	2 65 83
2 94 82	4 x #2 AL 600V XLPE J		
2 94 64	3 x #1/0 AL 600V XLPE J	2 65 44	2 65 84
2 94 84	4 x #1/0 AL 600V XLPE J		
2 94 66	3 x #4/0 AL 600V XLPE J	2 65 47	2 65 87
2 94 86	4 x #4/0 AL 600V XLPE J		
2 94 67	3 x 350 AL 600V XLPE J	2 65 49	2 65 88 (1 HOLE)
2 94 87	4 x 350 AL 600V XLPE J		2 65 89 (2 HOLE)
2 94 68	3 x 500 AL 600V XLPE J	2 65 51	2 65 90 (1 HOLE)
2 94 88	4 x 500 AL 600V XLPE J		2 65 91 (2 HOLE)

For USC75/USE190, THE NEUTRAL CONDUCTORS ARE THE SAME SIZE AS THE PHASE CONDUCTORS.

CABLE TYPE – USEB90 SECONDARY

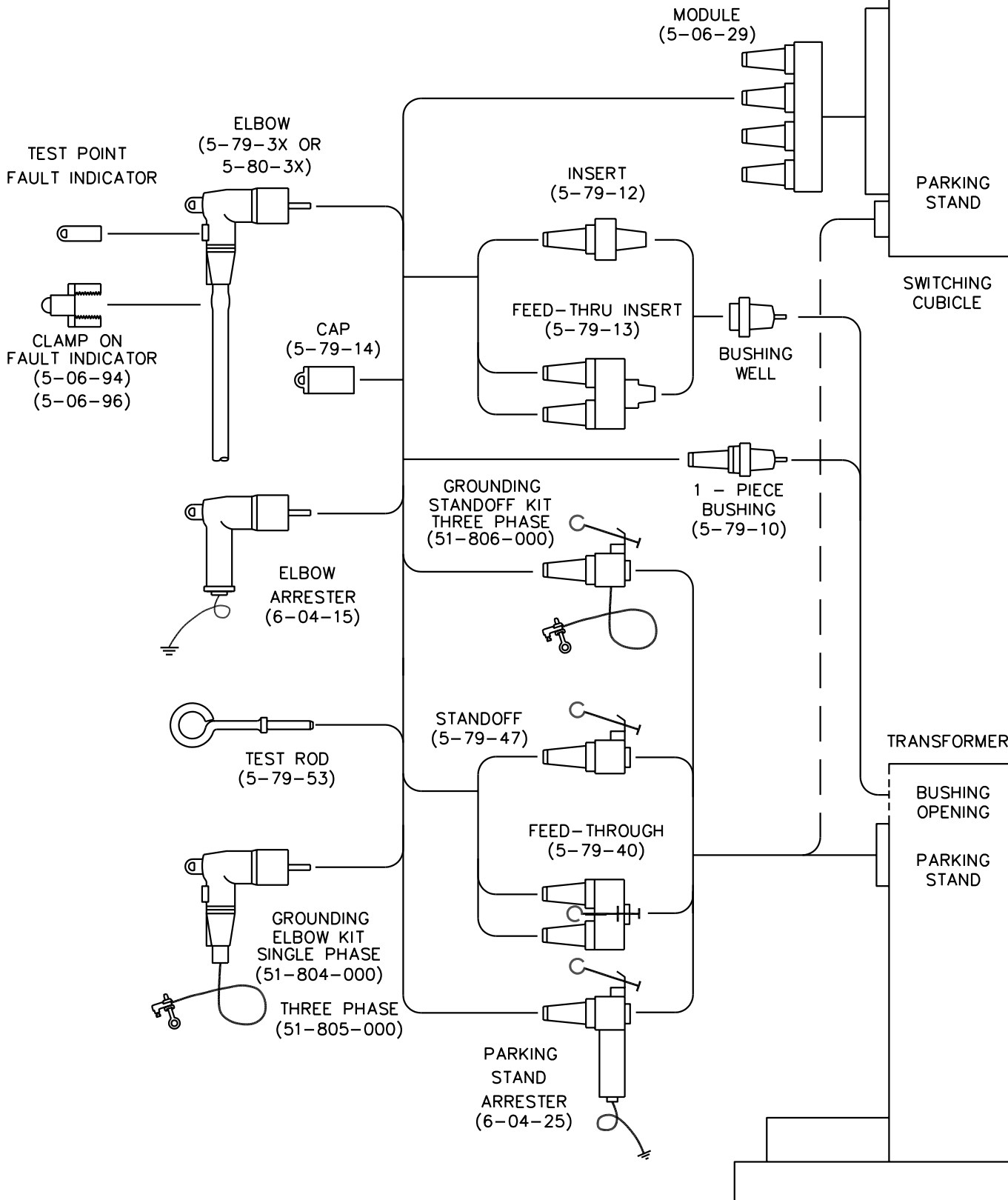
CONDUCTOR CODE	DESCRIPTION	COMPRESSION SLEEVE	HYLUG
2 92 78	1 x #8 CU 600V CN J	2 66 09 OR 2 65 24 (TO #4 TRANSITION)	—————
2 92 86	2 x #2 CU 600V CN J	2 66 32	2 65 83
		2 66 32	2 65 83
2 92 87	2 x 1/0 AL 600V CN J	2 65 44	2 65 84
		2 66 35	2 65 94
2 92 30	3 x 1/0 AL 600V CN J	2 65 44	2 65 84
		2 66 35	2 65 94
2 92 93	2 x 1/0 CU 600V CN J	2 65 20	2 65 84
		2 66 32	2 65 83
2 92 80	2 x 3/0 AL 600V CN J	2 65 46	2 65 86
		2 66 32	2 65 83
2 92 81	3 x 3/0 AL 600V CN J	2 65 46	2 65 86
		2 66 32	2 65 83
2 92 83	3 x 500 AL 600V CN J	2 65 51	2 65 90 (1 HOLE)
		2 65 40	2 65 91 (2 HOLE)
			2 65 87 (1 HOLE)
			2 65 97 (2 HOLE)

FOR USEB90, THE TOP STOCK CODE IS FOR PHASE CONDUCTOR & THE BOTTOM FOR CN.

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SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. LM	SECONDARY CABLE CONNECTORS & TERMINATIONS
L. MOEN	L. MOEN	CHKD. LM	
		2020-01-20	
DATE OF ISSUE: 2020/05/12		DRAWING NO: B-36-44	
		SHEET 2 of 2	REV. C



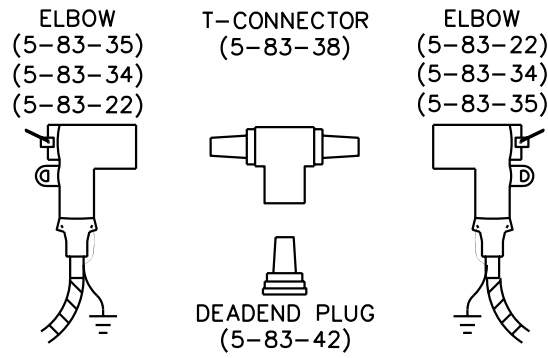
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NOTE:

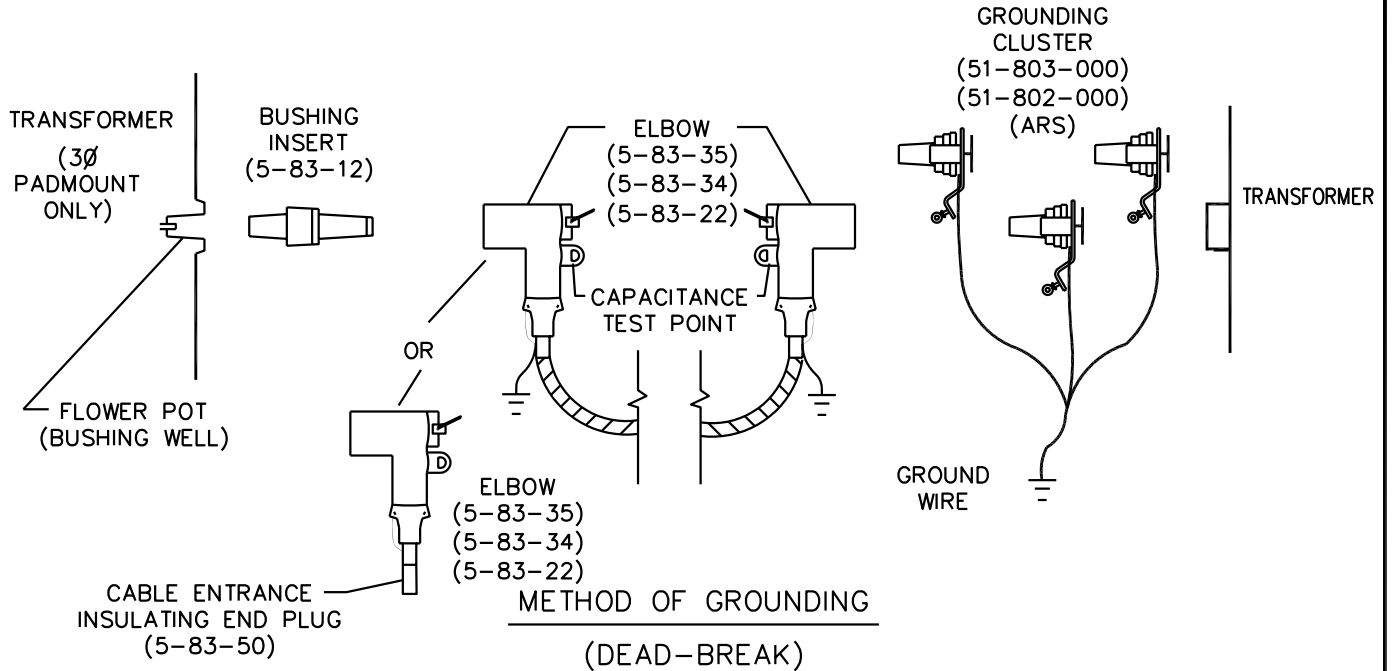
- 1) ALL LOADBREAK ELBOWS HAVE A COLORED CUFF.(USUALLY WHITE)

SaskPower – DISTRIBUTION STANDARDS

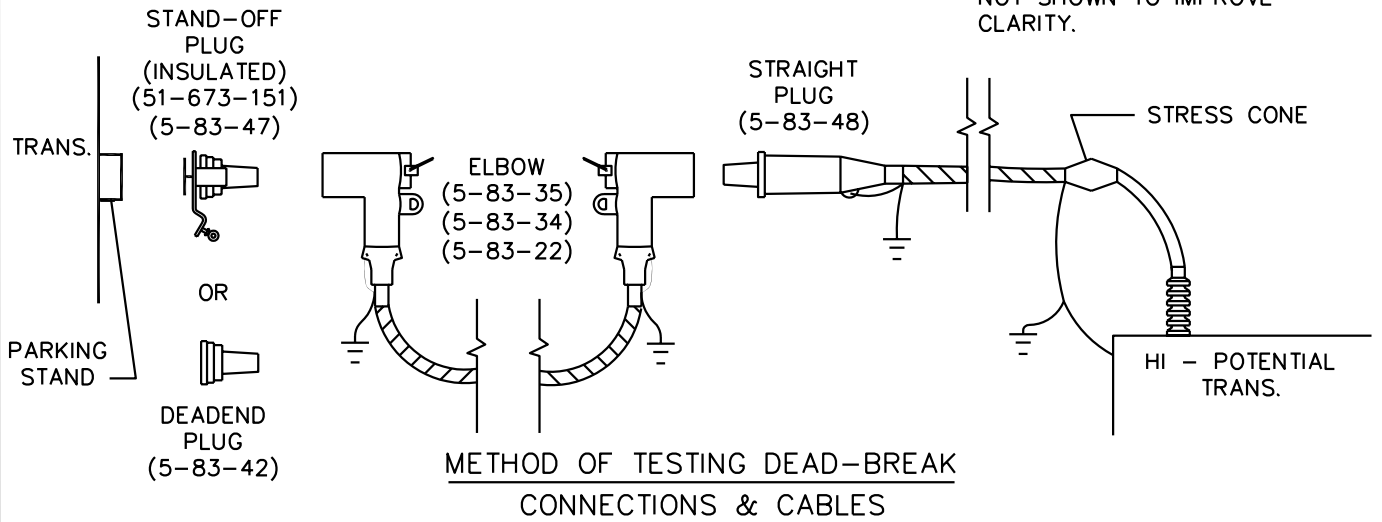
DRN. D.F.K.	DESIGN CHK.	SAFETY APP.	APPROVAL	200A LOAD-BREAK ACCESSORIES
CHKD.				
DATE 02-09-16	DATE	DATE	DATE	
DATE OF ISSUE: 2003/05/30	DRAWING NO. B-36-45		SHEET 1 of 1	REV. B



FEED-THROUGH METHOD
 (DEAD-BREAK)



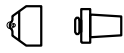
NOTE:
 HOLD DOWN BAILS FOR ELBOWS NOT SHOWN TO IMPROVE CLARITY.



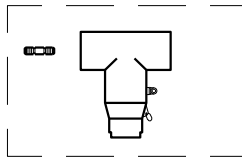
SASKATCHEWAN POWER CORP. - DISTRIBUTION ENGINEERING STANDARDS

DRN. <i>R</i>	DESIGN CHK.	SAFETY APP.	APPROVAL	200A DEAD-BREAK ACCESSORIES
CHKD. <i>FTK</i>				
DATE 02-09-16	DATE	DATE	DATE	
DATE OF ISSUE 2003/05/30	DRAWING NO. B-36-46		SHEET 1 of 1	REV. A

INSULATING PLUG
(2-68-40)



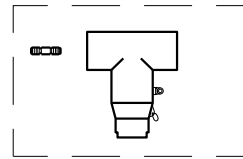
ELBOW W/STUD
(2-68-20)



CONNECTOR PLUG
(2-68-42)



ELBOW W/STUD
(2-68-20)

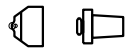


INSULATING PLUG
(2-68-40)

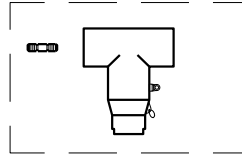


FEED-THROUGH METHOD
(DEAD-BREAK)

INSULATING PLUG
(2-68-40)



ELBOW W/STUD
(2-68-20)



INSULATING PLUG
(2-68-40)



METHOD OF TERMINATING ELBOW
(DEAD-BREAK)

INTEGRAL LOADBREAK REDUCING
TAP ELBOW W/ STUD - COMBO T
(2-68-52)

SEE B-36-45 FOR 200A
LOADBREAK ACCESSORIES

INSULATING PLUG
(2-68-40)

OR
DEADEND PLUG W/STUD
(2-68-44)

CONNECTOR PLUG
(2-68-42)

DEADBREAK REDUCING PLUG
(600A - 200A)
(2-68-46)

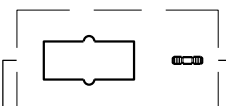
SEE B-36-46
FOR 200A DEADBREAK ACCESSORIES

REDUCING TAP WELL
(600A - 200A)
(2-68-48)

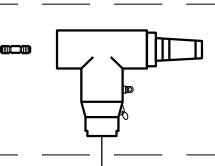
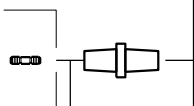
SEE B-36-45, B-36-46
FOR 200A ACCESSORIES

LOADBREAK REDUCING TAP
PLUG (600A-200A)
(2-68-47)
SEE B-36-45 FOR 200A
LOADBREAK ACCESSORIES

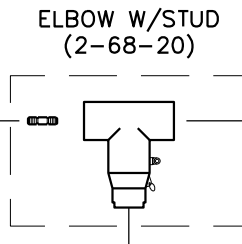
BUSHING EXTENDER
W/STUD
(2-68-32)



CONNECTOR
PLUG
(2-68-42)



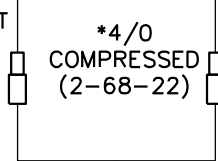
ELBOW W/STUD
(2-68-20)



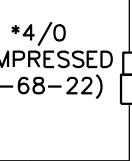
EQUIPMENT

BUSHING

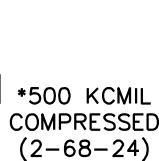
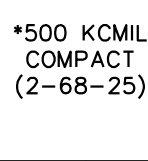
*4/0 COMPACT
(2-68-21)



4/0 CABLE
ADAPTER
(2-68-19)



500 KCMIL CABLE
ADAPTER
(2-68-17)



*NOTE: FOR USE WITH EITHER CU OR AL CONDUCTOR.

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SaskPower - DISTRIBUTION STANDARDS

APPROVAL
L.MOEN

DESIGN CHK.
L.MOEN

DRN.D.REDEKOPP
CHKD.

600A DEAD-BREAK ACCESSORIES

2016-05-11

DATE OF ISSUE 2016/07/26

DRAWING NO. B-36-47

SHEET 1 of 1

REV. C

BILL OF MATERIAL

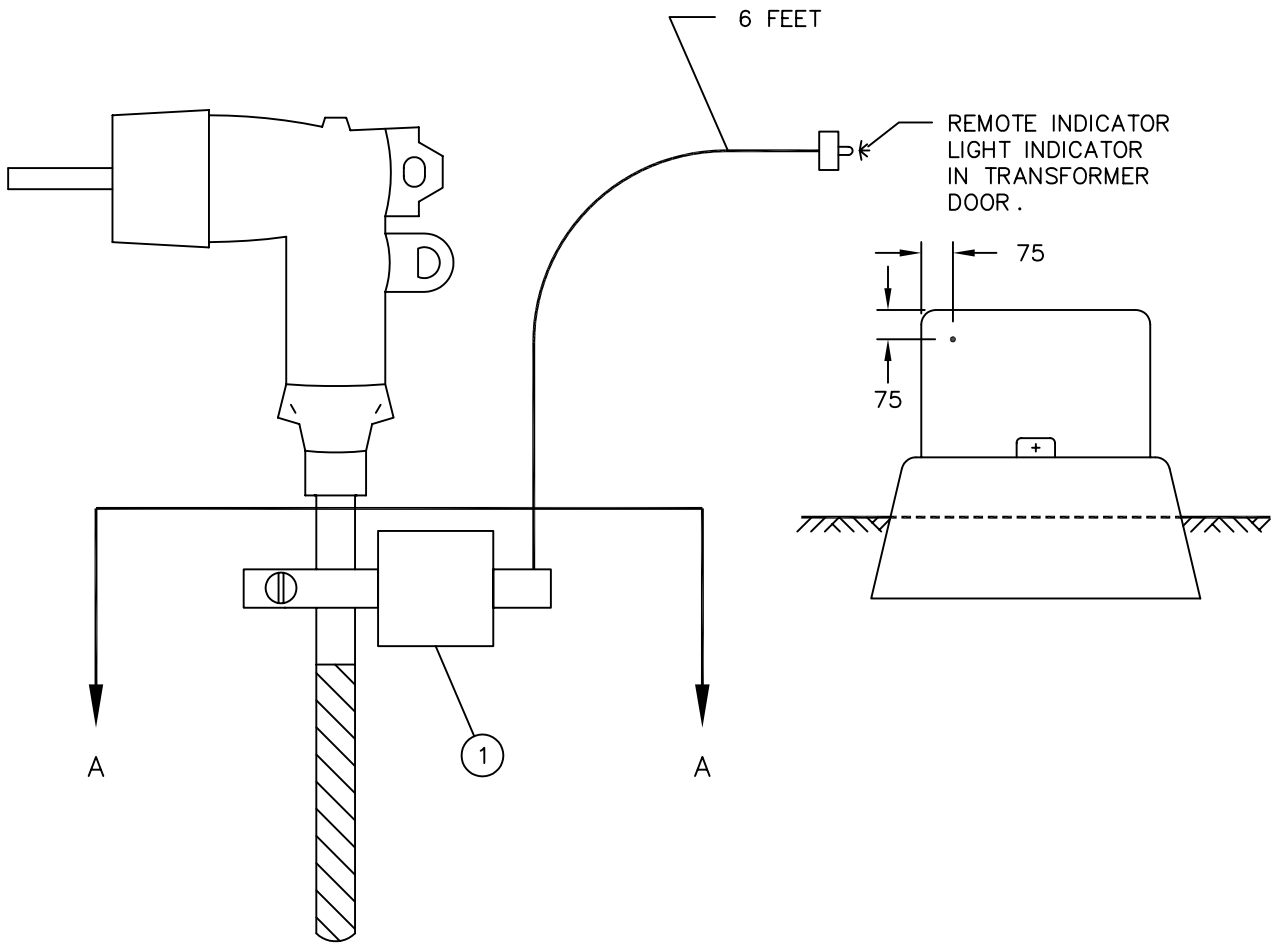
ITEM NO.	CODE NO.	QUANTITY	DESCRIPTION
1	5-06-94	1	FAULT INDICATOR - 300 AMP
1	5-06-96	1	FAULT INDICATOR - 80 AMP

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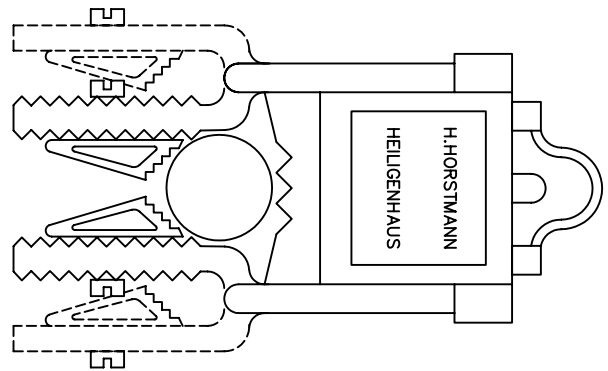
SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	FAULT INDICATORS
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE 96-07-26		DRAWING NO: B-36-50	SHEET 1 OF 2 REV. 0

CLAMP ON FAULT INDICATOR



SIDE VIEW



SECTION A-A

NOTES:

1. FAULT INDICATOR WILL RESET IN 4 HOURS AFTER INITIAL FAULT.
2. INDICATOR CAN BE TESTED BY USE OF A PERMANENT MAGNET.
3. FAULT INDICATOR NOT TO BE CLAMPED AROUND CONCENTRIC NEUTRAL WIRES.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower - DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	APPROVAL	FAULT INDICATORS
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE	DRAWING NO. B-36-50		SHEET 2 of 2
			REV. C

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FAULT INDICATOR APPLICATION GUIDE

FAULT INDICATORS ARE UTILIZED ON THE DISTRIBUTION SYSTEM TO DETECT AND ASSIST IN LOCATING THE SHORT CIRCUIT FAULT. WHEN A FAULT OCCURS, ALL THE INDICATORS BETWEEN THE SOURCE AND THE FAULT INDICATE A RED TARGET FLAG, OR A FLASHING RED LIGHT DEPENDING ON THE INDICATOR.

THE FAULT INDICATORS ARE FACTORY SET TO TRIP WHEN THE CURRENT IS EXCEEDED AND TO AUTOMATICALLY RESET AS SPECIFIED. THE APPLICATION OF FAULT INDICATORS IS DETAILED IN THE CHART BELOW.

CODE	TRIP SETTING (amps)	APPLICATION	MOUNTING DETAILS	RESETTING CRITERIA	EXTERNALLY VISIBLE INDICATION
5-06-94	300	1 ϕ URBAN	BELOW ELBOW	4 hrs	YES
5-06-96	80	1 ϕ RUD/RURAL	BELOW ELBOW	4 hrs	YES
5-06-97	60	1 ϕ URBAN	OVERHEAD CONDUCTOR	4 hrs	—

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DRN. <i>DK</i>	DESIGN CHK.	APPROVAL	FAULT INDICATOR APPLICATION GUIDE	
CHKD. <i>FTK</i>				
DATE 87-05-30	DATE	DATE		
DATE OF ISSUE		DRAWING NO. B-36-51	SHEET 1 of 1	REV. A

2" HDPE CONDUIT & ACCESSORIES

SASKPOWER CODE	DESCRIPTION
708502	CONDUIT – 2" HDPE – RED SDR 13.5
708512	DUCT PLUG – 2" – BLANK
708522	DUCT PLUG – 2" – SIMPLEX (SINGLE CABLE WITH OD OF 30-35mm)
708532	COUPLING – 2" – FUSION
708542	COUPLING – 2" – MECHANICAL
708550	BEND – 2" HDPE – 90 DEGREE – 32" RADIUS
708552	BEND – 2" HDPE – 90 DEGREE – 12" RADIUS

4" PVC CONDUIT & ACCESSORIES

SASKPOWER CODE	DESCRIPTION
704444	BEND – 4" PVC – 90 DEGREE – 16" RADIUS
704504	CONDUIT – 4" PVC BELL AND SPIGOT – 20' LENGTHS
704506	CAP – 4" PVC
704514	BEND – 4" PVC – 45 DEGREE – 16" RADIUS
704524	BEND – 4" PVC – 90 DEGREE – 36" RADIUS
704534	COUPLING – 4" PVC
708064	DUCT PLUG – 4" PVC

5" PVC & HDPE CONDUIT & ACCESSORIES

SASKPOWER CODE	DESCRIPTION
703150	DUCT PLUG 5" - 3 X 500 KCMIL
703151	BUSHING SLEEVE 4/0 PRIMARY
703152	BUSHING SLEEVE #1 PRIMARY
703153	DUCT PLUG 5" - QUAD
703154	BUSHING SLEEVE - 1/0 SECONDARY
703155	BUSHING SLEEVE - 4/0 SECONDARY
703156	BUSHING SLEEVE - 350 KCMIL SEC
703158	BUSHING SLEEVE - 500 KCMIL SEC
703159	DUCT PLUG 5" – BLANK
704505	CONDUIT – 5" PVC BELL AND SPIGOT – 20' LENGTHS
704507	CAP – 5" PVC
704510	END BELL – 5" PVC
704515	BEND – 5" PVC – 45 DEGREE – 24" RADIUS
704525	BEND – 5" PVC – 90 DEGREE – 36" RADIUS
704535	COUPLING – 5" PVC
704536	COUPLING - 5" PVC - 12" LENGTH
704545	BEND – 5" PVC – 30 DEGREE – 16" RADIUS
708245	SPACER – BLACK PLASTIC – 5" – 2" SPACING – INTERMEDIATE
708246	SPACER – BLACK PLASTIC – 5" – 2" SPACING – BASE
708505	CONDUIT – 5" HDPE – RED SDR 13.5
708560	ADHESIVE – HDPE TO PVC
708561	DISPENSER – FOR HDPE TO PVC ADHESIVE

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APPROVAL	DESIGN CHK	DRN. JDA	UNDERGROUND CONDUIT ACCESSORIES
L. MOEN	J. ARSENAULT	CHKD.	
		2018-11-15	
DATE OF ISSUE: 06/11/18		DRAWING NO: B-36-52	SHEET 1 of 2
			REV. B

MISCELLANEOUS ACCESSORIES

SASKPOWER CODE	DESCRIPTION
703145	DUXSEAL – PLASTIC SEALANT
703146	CONCRETE SEALANT
703147	PRIMER – CLEAR – FOR PVC (APPLIED PRIOR TO CONCRETE SEALANT)
704350	CEMENT – FOR PVC PIPE
713502	LUBRICANT – CABLE PULLING – 5 GALLON PAILS
713503	PULL TAPE – LUBRICATED – 2500 LBS
713504	PULL TAPE – LUBRICATED – 1800 LBS – DETECTABLE
5537020	BALL-ELECTRONIC MARKER-RED

NOTE:

1. 5" HDPE USES THE SAME ACCESSORIES AS 5" PVC. WHEN CONNECTING PVC TO HDPE, 708560 ADHESIVE MUST BE APPLIED TO HDPE SURFACE IN ORDER TO BOND PROPERLY AND CREATE A WATERTIGHT SEAL.
2. REFER TO SEP 8 FOR DUCT SELECTION.
3. 4" PVC CONDUIT & ACCESSORIES CODES ARE FOR MAINTENANCE ONLY, 5" AND 2" SHOULD BE USED WHENEVER POSSIBLE.

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SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. JDA	UNDERGROUND CONDUIT ACCESSORIES
L. MOEN	J. ARSENAULT	CHKD.	
		2018-09-26	
DATE OF ISSUE: 2019-01-02		DRAWING NO: B-36-52	SHEET 2 of 2 REV. 0