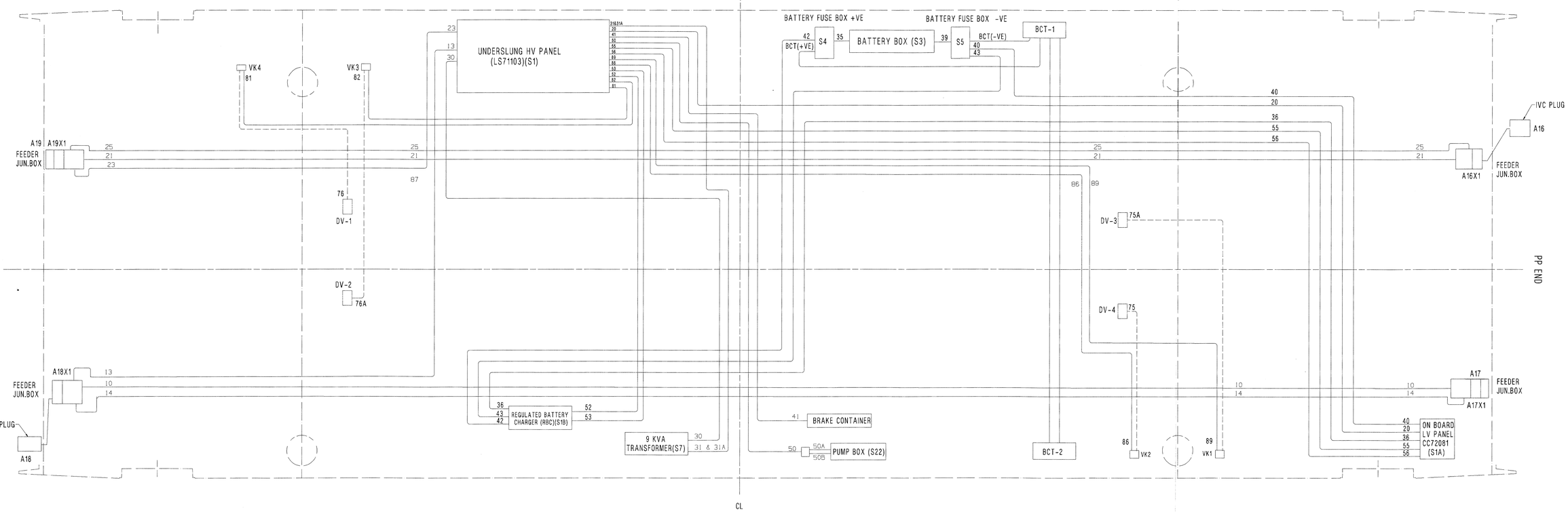
12

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY



BLOCK AND WIRING DIAGRAM FOR UNDER FRAME

THIS DRAWING IS THE INTELLECTUAL PROPERTY OF RAIL COACH FACTORY, KAPURTHALA.
THIS DRAWING SHOULD NOT BE REPRODUCED, ALTERED, USED FOR MANUFACTURING OF
COMPONENTS, SOLD OR TRANSFERRED WITHOUT PERMISSION FROM CHIEF DESIGN ENGINEER,
RAIL COACH FACTORY, KAPURTHALA.

NOTE:-

1. REFER DRG. NO. LS71103, ALT-C' FOR ARRANGEMENT OF UNDERFRAME WIRING.
2. REFER TO FERRULE NUMBER FOR UNDERFRAME WIRING TO EDTS-357, REV-C, COR-1, AM-1&2 OR LATEST.
3. REFER TO CODE OF PRACTICE FOR WIRING FOR 110V DC TRAIN LIGTING FOR EL/TL/48, (REV-1)-2005 & ELPS/SPEC/EOG/01.
4. 3X1.0 SQ MM SHIELD MULTI-CORE CABLES OF SPEED SENSOR HAVE BEEN DELETED FROM BOM AS THESE ARE BEING SUPPLIED BY WSP SYSTEM SUPPLIERS.
5. REFER WORK INSTRUCTION FOR APPLICATION OF FIRE BARRIER IN LHB AC & NON-AC COACHES TO EDW0036, VERSION-1.0.
6. REFER WORK INSTRUCTION FOR CRIMPING OF CABLE ENDS & CABLE TERMINATIONS TO EDW0006, VERSION-0.1.
7. REFER WORK INSTRUCTION FOR TEST PROCEDURE FOR TIGHTENING TORQUE OF HARDWARES FOR UNDERFRAME MOUNTED EQUIPMENTS IN LHB AC & NON-AC COACHES TO EDW0035, VERSION-1.0.

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

DATE OF FIRST ISSUE: 28/05/2012

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS	GPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	ELECTRICAL	SUPERSEDES: LS70122slb			
WEIGHT		FILE	Z:\LS70122slc.prt				
NIL	KG	BLOCK AND WIRING DIAGRAM & HARNESS CHART FOR UNDERFRAME (FOR LHB EOG SCN NON-AC COACH)			SCALE	SSE/ED	
S.AREA						CHD	
NIL	M²					DRN	
~~LENGTH/DIA~~		RAIL COACH FACTORY, KAPURTHALA			REF.DRG.No.	NIL	
NIL	M						
~~WIDTH/THICK.~~		रेल कोच फैक्ट्री कपूरथला	IRS		PL NO.	NIL	
NIL	M				DRG.NO.	LS70122	
HEIGHT		SEE/VD		DY.CEE/D	ALT.	C	SIZE A1 SHEET 1/3
NIL	M						

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HARNESS CHART

FROM		TO		ROUTE NO.	CABLE SIZE	VOLTAGE GRADE	CABLE SPEC	NO.OF CABLE	LENGTH (IN MM)	COLOUR OF CABLE	FERRULE NOS.	CONDUIT SIZE	REMARKS
LOCATION	CRIMPING SOCKET	LOCATION	CRIMPING SOCKET										
FEEDER JUNCTION BOX(A16X1)	- - -	FEEDER JUNCTION BOX(A19X1)	- - -	25	2.5 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	02	25500	CH,CH	46 01.03, 46 01.04,	NW-17	FEEDER JUNCTION BOX (A16X1) TO FEEDER JUNCTION BOX (A19X1),CONTROL CABLES
	95 SQ.MM. /M10 (1-NOS.)		95 SQ.MM. /M10 (1-NOS.)	21	95 SQ.MM	1.8/3.0KV	ELRS/SPEC/ELC/0019,REV-4	01	24100	BLK	12 01 24.02	FEEDER PIPE DIA-70	FEEDER JUNCTION BOX (A16X1) TO FEEDER JUNCTION BOX (A19X1)
	150 SQ.MM. /M16 (3-NOS.)		150 SQ.MM. /M16 (3-NOS.)		150 SQ.MM			03	24100	R,Y,B	12 01 15.02,12 01 18.02, 12 01 21.02		
FEEDER JUNCTION BOX(A17X1)	- - -	FEEDER JUNCTION BOX(A18X1)	- - -	14	2.5 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	02	25500	CH,CH	46 01.01, 46 01.02	NW-17	FEEDER JUNCTION BOX (A17X1) TO FEEDER JUNCTION BOX(A18X1),CONTROL CABLES
	95 SQ.MM. /M10 (1-NOS.)		95 SQ.MM. /M10 (1-NOS.)	10	95 SQ.MM	1.8/3.0KV	ELRS/SPEC/ELC/0019,REV-4	01	24100	BLK	12 01 10.02	FEEDER PIPE DIA-70	FEEDER JUNCTION BOX (A17X1) TO FEEDER JUNCTION BOX (A18X1)
	150 SQ.MM. /M16 (3-NOS.)		150 SQ.MM. /M16 (3-NOS.)		150 SQ.MM			03	24100	R,Y,B	12 01 01.02, 12 01 04.02,12 01 07.02		
FEEDER JUNCTION BOX(A19X1)	25 SQ.MM. /M16 (4-NOS.)	UNDERSLUNG HV PANEL,(S1)	25 SQ.MM. /M10 (4-NOS.)	23	25 SQ.MM	1.8/3.0KV	ELRS/SPEC/ELC/0019,REV-4	04	9000	R,Y,B,BLK	12 01 15.01,12 01 18.01 12 01 21.01,12 01 24.01	NW-48	FEEDER JUNCTION BOX (A19X1) TO UNDERSLUNG HV PANEL,(S1)
FEEDER JUNCTION BOX(A18X1)	25 SQ.MM. /M16 (4-NOS.)		25 SQ.MM. /M10 (4-NOS.)	13	25 SQ.MM			04	10000	R,Y,B,BLK	12 01 01.01,12 01 04.01 12 01 07.01,12 01 10.01	NW-48	FEEDER JUNCTION BOX (A18X1) TO UNDERSLUNG HV PANEL,(S1)
UNDERSLUNG HV PANEL,(S1)	- - -	TRANSFORMER (S7)	16 SQ.MM. /M6 (4-NOS.)	30	16 SQ.MM	1.8/3.0KV	ELRS/SPEC/ELC/0019,REV-4	04	9500	R,Y,B,BLK	12 01 12.02,12 01 13.02 12 01 14.02,12 01 11.02	NW-29	UNDERSLUNG HV PANEL,(S1) TO S7,(750V SIDE) INPUT CABLES
	- - -		16 SQ.MM. /M6 (4-NOS.)	31	16 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	04	7000	R,Y,B,BLK	12 02 06.01,12 02 07.01 12 02 08.01,12 02 09.01	NW-36	UNDERSLUNG HV PANEL,(S1) TO S7,(415V SIDE) OUTPUT CABLES
	- - -		6 SQ.MM. /M6 (4-NOS.)	31A	6 SQ.MM			04	7000	R,Y,B,BLK	12 02 16.01,12 02 17.01 12 02 18.01,12 02 19.01		UNDERSLUNG HV PANEL,(S1)TO S7,(190V SIDE) OUTPUT CABLES
BATTERY,(S3)	10 SQ.MM. /M8 (1-NO.)	BATTERY FUSE BOX(+VE),(S4)	10 SQ.MM. /M8 (1-NO.)	35	10 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	01	2500	CH	35	NW-17	BATTERY BOX,(S3) TO BATTERY FUSE BOX(+VE),(S4)
BATTERY,(S3)	10 SQ.MM. /M8 (1-NO.)	BATTERY FUSE BOX(-VE),(S5)	10 SQ.MM. /M8 (1-NO.)	39	10 SQ.MM			01	2500	W	39	NW-17	BATTERY BOX,(S3) TO BATTERY FUSE BOX(-VE),(S5)
RBC (S1B) (+VE)	----	ON BOARD LV PANEL,(S1A)	10 SQ.MM. /M8 (1-NO.)	36	10 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	01	20000	CH	36	NW-17	RBC(+VE),(S1B) TO LV PANEL,(S1A)
BATTERY FUSE BOX(-VE),(S5)	10 SQ.MM. /M8 (1-NO.)	ON BOARD LV PANEL,(S1A)	10 SQ.MM. /M8 (1-NO.)	40	10 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	01	14500	W	40	NW-17	BATTERY FUSE BOX(-VE),(S5) TO LV PANEL,(S1A)
BATTERY FUSE BOX(+VE),(S4)	10 SQ.MM. /M8 (1-NO.)	RBC(S1B)	----	42	10 SQ.MM			01	7000	CH	42	NW-17	BATTERY FUSE BOX(+VE),(S4) TO REGULATED BATTERY CHARGER(RBC),(S1B)
BATTERY FUSE BOX(-VE),(S5)	10 SQ.MM. /M8 (1-NO.)	RBC(S1B)	----	43	10 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	01	10000	W	43	NW-17	BATTERY FUSE BOX(-VE),(S5) TO REGULATED BATTERY CHARGER(RBC),(S1B)
UNDERSLUNG HV PANEL,(S1)	----	RBC(S1B)	----	52	2.5 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	02	6000	CH,W	52	NW-17	UNDERSLUNG HV PANEL,(S1) TO REGULATED BATTERY CHARGER(RBC),(S1B)
UNDERSLUNG HV PANEL,(S1)	----	RBC(S1B)	----	53	6 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	05	6000	R,Y,B.BLK,GNYE	53	NW-23	UNDERSLUNG HV PANEL,(S1) TO REGULATED BATTERY CHARGER(RBC),(S1B)
UNDERSLUNG HV PANEL,(S1)	----	ON BOARD LV PANEL,(S1A)	----	55	6 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	05	17500	R,Y,B.BLK,GNYE	55	NW-23	UNDERSLUNG HV PANEL,(S1) TO ON BOARD LV PANEL,(S1A)
UNDERSLUNG HV PANEL,(S1)	----	ON BOARD LV PANEL,(S1A)	----	56	3X1.0 SQ MM +SHIELD MULTI-CORE CABLE	750V	EDTS-132,REV.'C',AM-3,(DS-4)	03	18500	W,BR,BLK	56	NW-23	UNDERSLUNG HV PANEL,(S1) TO ON BOARD LV PANEL,(S1A) (NET-1 & 2)
VK1	----	UNDERSLUNG HV PANEL,(S1)	----	89	3X1.0 SQ MM +SHIELD MULTI-CORE CABLE	600/1000V	EDTS-132,REV.'C',AM-3,(DS-4)	01	12000	W,BR,BLK	23 03 01.02,23 03 02.02, 23 03 03.02	NW-17	VK1 TO HV PANEL,(S1),SPEED SENSOR CABLES
VK2	----		----	86	3X1.0 SQ MM +SHIELD MULTI-CORE CABLE			01	16000	W,BR,BLK	23 03 04.02,23 03 05.02, 23 03 06.02	NW-17	VK2 TO HV PANEL,(S1),SPEED SENSOR CABLES
VK3	----		----	82	3X1.0 SQ MM +SHIELD MULTI-CORE CABLE			01	8000	W,BR,BLK	23 03 07.02,23 03 08.02, 23 03 09.02	NW-17	VK3 TO HV PANEL,(S1),SPEED SENSOR CABLES
VK4	----		----	81	3X1.0 SQ MM +SHIELD MULTI-CORE CABLE			01	11000	W,BR,BLK	23 03 10.02,23 03 11.02, 23 03 12.02	NW-17	VK4 TO HV PANEL,(S1),SPEED SENSOR CABLES
UNDERSLUNG HV PANEL,(S1)	----	AIR BRAKE CABLE	----	41	1.5 SQ.MM	750V	ELRS/SPEC/ELC/0019,REV-4	02	8000	W,CH,	-	NW-17	AIR BRAKE CABLE TO AIR BRAKE CABLE
UNDERSLUNG HV PANEL,(S1)	----	PUMP,(VK-8)	----	50	1.5 SQ.MM	-	ELRS/SPEC/ELC/0019,REV-4	04	9000	R,Y,B,GNYE	33 08 02.02, 33 08 04.02, 33 08 06.02, 33 08 07.01,	NW-29	HV PANEL (S1), TO VK-8 PUMP CABLE
UNDERSLUNG HV PANEL,(S1)	----	PUMP,(VK-8)	----	50	1.5 SQ.MM	-	ELRS/SPEC/ELC/0019,REV-4	04	9000	R,Y,B,GNYE	33 08 13.02, 33 08 15.02, 33 08 17.02, 33 08 18.01,		HV PANEL (S1), TO VK-8 PUMP CABLE
UNDERSLUNG HV PANEL,(S1)	----	PUMP,(VK-8)	----	50	2X1.0 SQ MULTI-CORE CABLE	-	EDTS-132,REV.'C',AM-3,(DS-3)	01	9000	W,BR	33 08 10.01, 33 08 11.01,		HV PANEL (S1), TO VK-8 PUMP CABLE
UNDERSLUNG HV PANEL,(S1)	----	PUMP,(VK-8)	----	50	2X1.0 SQ MULTI-CORE CABLE	-	EDTS-132,REV.'C',AM-3,(DS-3)	01	9000	W,BR	34 08 19.01, 33 08 20.01,		HV PANEL (S1), TO VK-8 PUMP CABLE
PUMP,(VK-8)	----	PUMP-1	1.5 SQ.MM. /M5 (4-NOS.)	50A	1.5 SQ.MM	-	ELRS/SPEC/ELC/0019,REV-4	04	1500	R,Y,B,GNYE	33 08 02.03, 33 08 04.03, 33 08 06.03, 33 08 07.02,	NW-12	VK-8 TO PUMP-1 CABLE
PUMP,(VK-8)	----	PUMP-1	1.5 SQ.MM. /M5 (2-NOS.)	50A	2X1.0 SQ MULTI-CORE CABLE	-	ELRS/SPEC/ELC/0019,REV-4	01	1500	W,BR	33 08 10.02, 33 08 11.02,		VK-8 TO PUMP-2 CABLE
PUMP,(VK-8)	----	PUMP-2	1.5 SQ.MM. /M5 (4-NOS.)	50B	1.5 SQ.MM	-	ELRS/SPEC/ELC/0019,REV-4	04	1500	R,Y,B,GNYE	33 08 13.03, 33 08 15.03, 33 08 17.03, 33 08 18.02,		VK-8 TO PUMP-2 CABLE
PUMP,(VK-8)	----	PUMP-2	1.5 SQ.MM. /M5 (2-NOS.)	50B	2X1.0 SQ MULTI-CORE CABLE	-	EDTS-132,REV.'C',AM-3,(DS-3)	01	1500	W,BR	34 08 19.02, 33 08 20.02,		VK-8 TO PUMP-2 CABLE
BCT-1 (WITH 40A FUSE BOX)	10 SQ.MM. /M10 (1-NO.)	BCT-2	10 SQ.MM. /M10 (1-NO.)	-	10 SQ MM	-	ELRS/SPEC/ELC/0019,REV-4	01	3500	RED	-	NW-23	BCT-1 TO BCT-2 CABLE
BCT-1 (WITH 40A FUSE BOX)	10 SQ.MM. /M10 (1-NO.)	BCT-2	10 SQ.MM. /M10 (1-NO.)	-	10 SQ MM	-	ELRS/SPEC/ELC/0019,REV-4	01	3500	BLUE	-	NW-23	BCT-1 TO BCT-2 CABLE
BCT-1 (WITH 40A FUSE BOX)	10 SQ.MM. /M10 (1-NO.)	BATTERY FUSE BOX (+VE) (S4)	10 SQ.MM. /M8 (1-NO.)	-	10 SQ MM	-	ELRS/SPEC/ELC/0019,REV-4	01	6000	RED	-	NW-23	BCT-1 TO BATTERY FUSE BOX (+VE) (S4) CABLE
BCT-1 (WITH 40A FUSE BOX)	10 SQ.MM. /M10 (1-NO.)	BATTERY FUSE BOX (-VE) (S5)	10 SQ.MM. /M8 (1-NO.)	-	10 SQ MM	-	ELRS/SPEC/ELC/0019,REV-4	01	7000	BLUE	-	NW-23	BCT-1 TO BATTERY FUSE BOX (-VE) (S5) CABLE
UNDERSLUNG HV PANEL,(S1)	----	ON BOARD LV PANEL,(S1A)	----	20	1.5 SQ.MM	-	ELRS/SPEC/ELC/0019,REV-4	01	19500	CH	33,08,24	NW-17	UNDERSLUNG HV PANEL,(S1) TO LV PANEL PUMP CONTROLLER CABLES
UNDERSLUNG HV PANEL,(S1)	----	ON BOARD LV PANEL,(S1A)	----	20	1.5 SQ.MM	-	ELRS/SPEC/ELC/0019,REV-4	01	19500	CH	33,08,25		
UNDERSLUNG HV PANEL,(S1)	----	ON BOARD LV PANEL,(S1A)	----	20	2X1.0 SQ MULTI-CORE CABLE	-	EDTS-132,REV.'C',AM-3,(DS-4)	01	19500	BR,W	33,08,10,01A 33,08,11,01A		
UNDERSLUNG HV PANEL,(S1)	----	ON BOARD LV PANEL,(S1A)	----	20	2X1.0 SQ MULTI-CORE CABLE	-	EDTS-132,REV.'C',AM-3,(DS-4)	01	19500	BR,W	33,08,19,01A 33,08,20,01A		

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ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

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DATE OF FIRST ISSUE 28/05/2012

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES: LS70122s2b.prt			
WEIGHT	FILE	Z:\LS70122s2c.prt				
NIL KG	BLOCK AND WIRING DIAGRAM & HARNESS CHART FOR UNDERFRAME (FOR LHB EOG SCN NON-AC COACH)		SCALE	SSE/ED		
S.AREA				CHD		
NIL M2				DRN		
~~LENGTH/DIA~~	RAIL COACH FACTORY, KAPURTHALA		REF.DRG.No. NIL			
NIL M						
~~WIDTH/THICK~~	रेल कोच फैक्टरी कपूरथला	IRS	PL NO.	NIL		
NIL M			DRG.NO.	LS70122		
HEIGHT	SEE/VD	DY.CEE/D	ALT.	C	SIZE A1	SHEET 2/3
NIL M						

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
C	05/01/2026	ALL	1.BOM & HARNESS CHART UPDATED AND DRAWING MODIFIED ACCORDINGLY.	CR NO. 2300250016

EARTHING CABLES

CABLE SIZE	NO.OF CABLE	LENGTH (IN MM.)	COLOUR OF CABLE	EQUPMENT	CRIMPING SOCKET	SPEC./ITEM.NO.
70	04	500	GNYE	FEEDER JUNCTIONN BOX (4-Nos.)	70 SQ.MM. /M12 (8-NOS.)	EDTS-200 (LATEST),ITEM-7
70	02	500	GNYE	9/15 KVA T/F (2-Nos.)	70 SQ.MM. /M10 (2-NOS.)	EDTS-200 (LATEST),ITEM-8
70	02	1250	GNYE	FEEDRE JUNCTION BOX (2-Nos.)	70 SQ.MM. /M10 (4-NOS.)	EDTS-200 (LATEST),ITEM-8
70	02	800	GNYE	FEEDER JUNCTION BOX (2-Nos.)	70 SQ.MM. /M10 (4-NOS.)	EDTS-200 (LATEST),ITEM-8
50	01	450	GNYE	BATTERY BOX	50 SQ.MM. /M10 (2-NOS.)	EDTS-200 (LATEST),ITEM-10
16	03	300	GNYE	BATTERY FUSE BOX (+VE & -VE) (1-No. EACH) & BRAKE CONT,(1-No.),	16 SQ.MM. /M8 (6-NOS.)	EDTS-200 (LATEST),ITEM-16
2.5	02	300	GNYE	PUMP (2-Nos.)	2.5 SQ.MM. /M6 (4-NOS.)	EDTS-201 (LATEST),ITEM-10
2.5	04	450	GNYE	DUMP VALVE (1-No. each)	2.5 SQ.MM. /M6 (8-NOS.)	EDTS-201 (LATEST),ITEM-10

57	COPPER CRIMPING SOCKET FOR 1.5 SQ.MM CABLE	12	EDTS-201, REV-A,	NIL	AM-2,COR-1 ,ITEM-11.	35	1.5 SQ.MM WHITE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	8	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
56	COPPER CRIMPING SOCKET FOR 2.5 SQ.MM CABLE	12	EDTS-201, REV-A,	NIL	AM-2,COR-1, ITEM-10,(M8)	34	1.5 SQ.MM GNYE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	21	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
55	1.5 SQ.MM GNYE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	4	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST	33	1.5 SQ.MM BLACK THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	10	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
54	1.5 SQ.MM BLUE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	21	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST	32	1.5 SQ.MM RED THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	21	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
53	1.5 SQ.MM YELLOW THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	21	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST	31	2.5 SQ.MM GNYE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	2	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
52	FLEXIBLE FLAME RETARDANT HIGH PERFORMANCE POLYOLEFIN HEAT SHRINKABLE TUBING	1	EDML-176, REV-0,	NIL	NIL	30	2.5 SQ.MM CHOCOLATE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	108	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
51	COPPER CRIMPING SOCKET FOR 10 SQ.MM CABLE	4	EDTS-201, REV-A,	NIL	AM-2,COR-1, ITEM-13,(M10)	29	2.5 SQ.MM WHITE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	6	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
50	COPPER CRIMPING SOCKET FOR 10 SQ.MM CABLE	12	EDTS-201, REV-A,	NIL	AM-2,COR-1, ITEM-1,(M8)	28	6 SQ.MM GNYE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	24	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
49	COPPER CRIMPING SOCKET FOR 6 SQ.MM CABLE	4	EDTS-201, REV-A,	NIL	AM-2,COR-1, ITEM-4,(M6)	27	6 SQ.MM BLACK THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	31	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
48	COPPER CRIMPING SOCKET FOR 16 SQ.MM CABLE	8	EDTS-200, REV-0,	NIL	AM-3,COR-3, ITEM-17,(M6)	26	6 SQ.MM BLUE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	31	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
47	COPPER CRIMPING SOCKET FOR 16 SQ.MM CABLE	10	EDTS-200, REV-0,	NIL	AM-3,COR-3, ITEM-16,(M8)	25	6 SQ.MM YELLOW THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	31	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
46	COPPER CRIMPING SOCKET FOR 25 SQ.MM CABLE	8	EDTS-200, REV-0,	NIL	AM-3,COR-3, ITEM-14,(M8)	24	6 SQ.MM RED THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	31	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
45	COPPER CRIMPING SOCKET FOR 25 SQ.MM CABLE	12	EDTS-200, REV-0,	NIL	AM-3,COR-3, ITEM-13,(M10)	23	10 SQ.MM CHOCHOLATE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	30	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
44	COPPER CRIMPING SOCKET FOR 25 SQ.MM CABLE	6	EDTS-200, REV-0,	NIL	AM-3,COR-3, ITEM-23,(M16)	22	10 SQ.MM WHITE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	27	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
43	COPPER CRIMPING SOCKET FOR 50 SQ.MM CABLE	02	EDTS-200, REV-0,	NIL	AM-3,COR-3 ,ITEM-8,(10)	21	10 SQ.MM BLUE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	11	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
42	COPPER CRIMPING SOCKET FOR 70 SQ.MM CABLE	12	EDTS-200, REV-0,	NIL	AM-3,COR-3, ITEM-8,(10)	20	10 SQ.MM RED THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	10	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
41	COPPER CRIMPING SOCKET FOR 70 SQ.MM CABLE	8	EDTS-200, REV-0,	NIL	AM-2,COR-3, ITEM-7,(M12)	19	16 SQ.MM GNYE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	2	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
40	CABLE MARKING SYSTEM	1	EDML-60,R-E COL-V	NIL	NIL	18	16 SQ.MM BLACK THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	7	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
39	3X1.0 SQ.MM MULTICORE CABLE E-BEAM CABLE 600/1000V COLOUR WH,BR,BLK	56	EDTS-132, REV-C	AM-3,COR-1,DS-4	NIL	17	16 SQ.MM BLUE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	7	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
38	2X1.0 SQ.MM MULTICORE CABLE E-BEAM CABLE 600/1000V COLOUR BR,WH	60	EDTS-132, REV-C	AM-3,COR-1,DS-4	NIL	16	16 SQ.MM YELLOW THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	7	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
37	4X1.5 SQ.MM MULTICORE CABLE E-BEAM CABLE 600/1000V COLOUR WH,BR,BLK,GNYE	21	EDTS-132, REV-C	AM-3,COR-1,DS-3 RDC TO LV PANEL	CONTROL CABLE	15	16 SQ.MM RED THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	7	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
36	1.5 SQ.MM CHOCO THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.UP TO 750V (IN MTRS)	47	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST	14	16 SQ.MM BLACK THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	10	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
						13	16 SQ.MM BLUE THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	10	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
						12	16 SQ.MM YELLOW THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	10	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
						11	16 SQ.MM RED THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	10	ELRS/SPEC/E LC/0019,R-2	NIL	COVD. IN EDTS-357-LATEST
						10	25 SQ.MM BLACK THIN WALLED FLEX.ELAST.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	19	ELRS/SPEC/E LC/0019,R-2	NIL	COVD. IN EDTS-357-LATEST
						9	25 SQ.MM BLUE THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	19	ELRS/SPEC/E LC/0019,R-2	NIL	COVD. IN EDTS-357-LATEST
						8	25 SQ.MM YELLOW THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	19	ELRS/SPEC/E LC/0019,R-2	NIL	COVD. IN EDTS-357-LATEST
						7	25 SQ.MM RED THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	19	ELRS/SPEC/E LC/0019,R-2	NIL	COVD. IN EDTS-357-LATEST
						6	50 SQ.MM RED THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750V (IN MTRS)	1	ELRS/SPEC/E LC/0019,R-2	NIL	COVD. IN EDTS-357-LATEST
						5	70 SQ.MM GNYE THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	10	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
						4	95 SQ.MM BLACK THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	49	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
						3	150 SQ.MM BLUE THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	49	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
						2	150 SQ.MM YELLOW THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	49	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST
						1	150 SQ.MM RED THIN WALLED FLEX.ELAS.CABLE WITH CU.COND.750 TO 1.8/3KV(IN MTRS)	49	ELRS/SPEC/E LC/0019,R-4	NIL	COVD. IN EDTS-357-LATEST

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NOTE:-

*8.3X1.0 SQ MM SHIELD MULTI-CORE CABLES OF SPEED SENSOR HAVE BEEN DELETED FROM BOM AS THESE ARE BEING SUPPLIED BY WSP SYSTEM SUPPLIERS.
7. REFER WORK INSTRUCTION FOR TEST PROCEDURE FOR TIGHTENING TORQUE OF HARDWARES FOR UNDERFRAME MOUNTED EQUIPMENTS IN LHB AC & NON-AC COACHES TO EDW0035,VERSION-1.0.
6. REFER WORK INSTRUCTION FOR CRIMPING OF CABLE ENDS & CABLE TERMINATIONS TO EDW0006,VERSION-0.1.
5. REFER WORK INSTRUCTION FOR APPLICATION OF FIRE BARRIER IN LHB AC & NON-AC COACHES TO EDW0036,VERSION-1.0.
4. 3X1.0 SQ MM SHIELD MULTI-CORE CABLES OF SPEED SENSOR HAVE BEEN DELETED FROM BOM AS THESE ARE BEING SUPPLIED BY WSP SYSTEM SUPPLIERS.
3. REFER TO CODE OF PRACTICE FOR WIRING FOR 110V DC TRAIN LIGTING FOR EL/TL/48,(REV-1)-2005 & ELPS/SPEC/EOG/01.
2. REFER TO FERRULE NUMBER FOR UNDERFRAME WIRING TO EDTS-357,REV-C,COR-1,AM-1&2 OR LATEST.
1. REFER DRG. NO. LS71103,ALT-C' FOR ARRANGEMENT OF UNDERFRAME WIRING.

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 28/05/2012

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	ELECTRICAL	SUPERSEDES: LS70122s2b.prt			
WEIGHT		FILE	Z:\LS70122s3c.prt				
NIL	KG		BLOCK AND WIRING DIAGRAM & HARNESS CHART FOR UNDERFRAME (FOR LHB EOG SCN NON-AC COACH)				
S.AREA							
NIL	M²						
~~LENGTH/DIA~~							
NIL	M		RAIL COACH FACTORY, KAPURTHALA				
~~WIDTH/THICK.~~							
NIL	M		रेल कोच फैक्टरी कपूरथला IRS				
HEIGHT							
NIL	M		SEE/VD DY.CEE/D				

SCALE | SSE/ED | CHD | DRN

REF.DRG.No. NIL

PL NO. NIL

DRG.NO. LS70122

ALT. C | SIZE A1 | SHEET 3/3