

**LIST OF PRE-WIRED INTER VEHICLE COUPLER TO SUPPLIED IN ONE SET
(FOR MEMU/TC COACH)**

1. This material list covers the supply of modified inter vehicle coupler in pre-wired condition duly crimped on socket and plug end.

2. BILL OF MATERIAL

A- MODIFIED INTER VEHICLE COUPLER (A,B,C & D):

| Sl. No. | Description | Drg. No. | Qty/set |
|---------|---|---------------------------------|---------|
| 1. | Inter vehicle coupler plug set (one of each type A,B,C & D). | ICF/SK-7-5-054, alt 'j', col-I | 1 |
| 2. | Inter vehicle coupler socket set (one of each type A,B,C & D) | ICF/SK-7-5-053, alt 'l', col-I | 1 |
| 3. | Inter vehicle coupler dummy socket set (one of each type A,B,C & D) | ICF/SK-7-5-053, alt 'l', col-II | 1 |
| 4. | Jumper elbow assembly | ICF/SK-7-2-293, alt c/2, col-II | 4 |

B- TYPE AND LENGTH OF JUMPER CABLE:

| Sl no. | Type of cable | Spec. | Type of coupler | Length of cable |
|--------|---|------------------------------------|--------------------------------------|-----------------|
| 1. | HRPVC copper cable, 2.5 mm ² (19 core) color black | E14/01, Part-3, Rev-2, Tab-4, Am-1 | A,B,C & D socket (non MCB panel end) | 4x2500 mm |
| 2. | Electrometric copper cable, 4 mm ² (19 core) color black | E14/01, Part-1, Rev-2, Tab-3, Am-2 | A,B,C & D plug (MCB panel end) | 4x4000 mm |

3. Free end of each jumper cable to be rolled and tied with cable tie.
4. Soldering of inter vehicle coupler socket & plug pins with cables is not acceptable.
5. Work instruction to RCF document: no. no. EDW0006 version -01 to be followed for crimping of cable end and cable termination.
6. Work instructions for preparation of Harness to RCF document no. EDW0003 Ver.-02 to be followed.

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| EDML006 | 'C' | 01.07.2010 | <i>GP</i> | <i>J</i> | <i>Boeser</i> | 1 of 3 |
| SPEC. NO. | REV | DATE | PRPD. | SEE/D&D | DY.CEE/D&D | PAGE |

7. Jumper wiring/ferruling of each type of inter vehicle coupler shall be done as per the following codification chart

8. CODIFICATION CHART:

| Marking on 19 core cable and IVC socket/plug bush | Marking on TL.TB.'A' | Marking on TL.TB.'B' | Marking on TL.TB.'C' | Marking on TL.TB.'D' |
|---|----------------------|----------------------|----------------------|----------------------|
| 1 | 14 | 5 | 16 | A226 |
| 2 | 14 | 6 | 19 | A226 |
| 3 | 14 | 1 | 18 | 44 |
| 4 | 9 | 2 | 17 | 45 |
| 5 | 44 | 3 | 15 | 21 |
| 6 | 45 | 25 | 17A | 22A |
| 7 | 10 | 3A | A261 | 22 |
| 8 | 12 | A261 | A261 | 23 |
| 9 | 42 | A226 | A226 | 24 |
| 10 | 1452 | A226 | A226 | 20 |
| 11 | 7 | 33 | SP3 | 41 |
| 12 | 40 | 46 | SP4 | 41 |
| 13 | 8 | 46 | 31 | A261 |
| 14 | 36 | 11 | 31 | A261 |
| 15 | 37 | A261 | 25 | 46 |
| 16 | 38 | 13 | 26 | 41 |
| 17 | AF-3 | SP1 | 14A | 41 |
| 18 | 39 | SP2 | 14A | 32 |
| 19 | 40 | 14A | 20 | 32A |

9. Packing of pre-wired inter vehicle coupler to be done as per packing instruction to RCF document no. PLM0010E version-8.0.
10. Packing per coach set shall be done as per packing conditions. However either card board packing in single unit or plastic containers (returnable basis) shall be used for supplying the material. The packing shall be legibly marked for the type of coach applicable for.

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| EDML006 | 'C' | 01.07.2010 | <i>GP</i> | <i>↓</i> | <i>Boader</i> | 2 of 3 |
| SPEC. NO. | REV | DATE | PRPD. | SEE/D&D | DY.CEE/D&D | PAGE |

11. Performa invoice of all the major items like cable, crimping sockets, ferrule etc. shall be supplied along with each supply of material.
12. Procurement of the item specified in the BOM of the specification shall be procured/used @15% (max.) from Part-II & @ 85% to 100% from Part-I vendors mentioned in latest version of the vendor directory issued by RCF/ICF/RDSO respectively.

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AMENDMENT-1.

AMENDMENT-1 TO EDML006, REV.-'C' FOR LIST OF PRE - WIRED INTER VEHICLE COUPLER TO SUPPLIED IN ONE SET FOR MEMU/TC COACH.

This amendment is issued to Document No.EDML-006, Rev.-'C' for MEMU/TC Coaches to incorporate the following changes:-

The following changes shall be in-corporate In Bill Of Material mentioned at Clause-2 of this EDML006,Rev.-'C' (Page 1 of 3):

Clause-2 BILL OF MATERIAL

EXISTING:

B. TYPE AND LENGTH OF JUMPER CABLE :

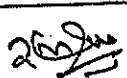


| S. No. | TYPE OF CABLE | SPECIFICATION NO. | TYPE OF COUPLER | LENGTH OF CABLE |
|--------|---|---|---|-----------------|
| 1. | HRPVC copper cable, 2.5 mm ² (19 Core) color Black. | E-14/01, Pt. - 3, Rev. - 02, TAB. - 4, AM. - 1. | A, B, C & D Socket (Non MCB Panel End). | 4x2500mm |
| 2 | Electrometric copper cable, 4 mm ² (19. Core) color Black. | E-14/01, Pt. - 1, Rev. - 02, TAB. - 3, AM. - 2. | A, B, C & D Plug (MCB Panel End) | 4x4000mm |

REVISED:

B. TYPE AND LENGTH OF JUMPER CABLE:

| S. No. | TYPE OF CABLE | SPECIFICATION NO. | TYPE OF COUPLER | LENGTH OF CABLE |
|--------|--|--|---|-----------------|
| 1. | Flexible Elastomeric copper cable, 2.5 mm ² (19 Core), color Black. | E-14/01, Pt. - 1, Rev. - 02, TABLE - 3, AM. - 1,2 & 3. | A, B, C & D Socket (Non MCB Panel End). | 4x2500mm |
| 2 | Flexible Elastomeric copper cable, 4 mm ² (19 Core), color Black. | E-14/01, Pt. - 1, Rev. - 02, TABLE - 3, AM. - 1,2 & 3. | A, B, C & D Plug (MCB Panel End). | 4x4000mm |

Clause-12. STANDS DELETED (Page 3 of 3 to EDML006, Rev.-'C').

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|---------------------|-------|------------|---|--|---|--------|
| EDML006 Rev.-'C' | 1 | 29.04.2013 |  |  |  | 1 OF 1 |
| SPEC. NO. | Amdt. | DATE | SSE/CAD | AEE/D | DY.CEE/D&D | PAGE |

CORRIGENDUM NO.-1 TO EDML006, REV.-C, AM.-1

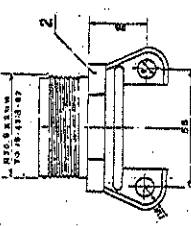
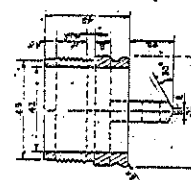
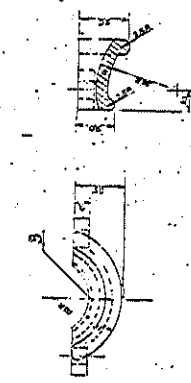
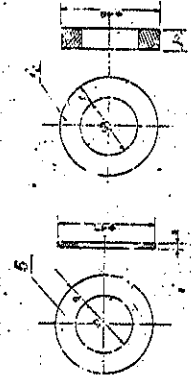
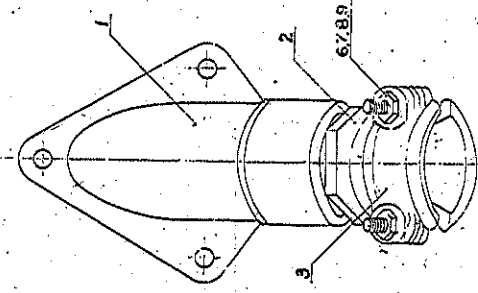
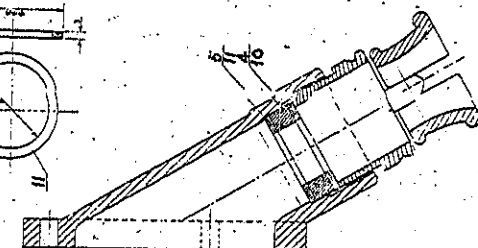
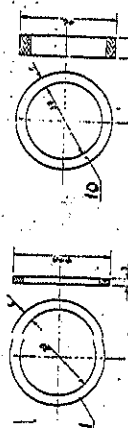
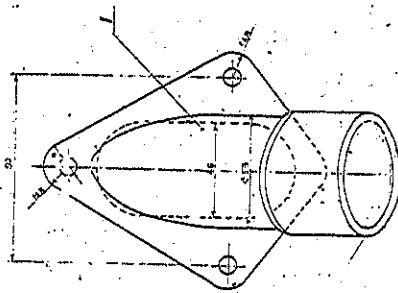
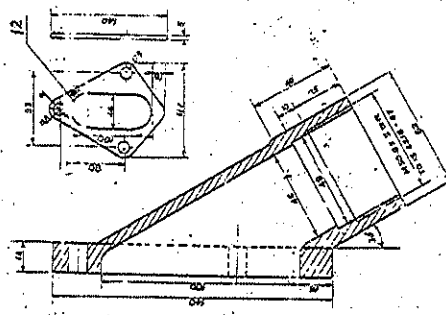
This corrigendum issued to EDML006, Rev.-'C', Am.-1 " **LIST OF PRE -WIRED INTER VEHICLE COUPLER TO SUPPLIED IN ONE SET (FOR MEMU/TC COACH)**" to modify the cable Ferrule Nos. in **clause 8.0 (Codification chart)** may be read as follow:

8. CODIFICATION CHART:

| MARKING ON 19 CORE CABLE AND SOCKET/PLUG BUSH | MARKING ON TL.TB.'A' | MARKING ON TL.TB.'B' | MARKING ON TL.TB.'C' | MARKING ON TL.TB.'D' |
|---|----------------------|----------------------|----------------------|----------------------|
| 1 | 14 | 5 | 16 | A226 |
| 2 | 14 | 6 | 19 | A226 |
| 3 | 14 | 1 | 18 | 44 |
| 4 | 9 | 2 | 17 | 45 |
| 5 | 44 | 3 | 15 | 21 |
| 6 | 45 | 25 | 17A | 22A |
| 7 | 10 | 3A | 46 | 22 |
| 8 | 12 | A261 | 46 | 23 |
| 9 | 42 | A226 | 44 | 24 |
| 10 | 1452 | A226 | 45 | 20 |
| 11 | 7 | 33 | SP1 | 41 |
| 12 | 40 | 46 | 3606 | 41 |
| 13 | 8 | 46 | 31 | A261 |
| 14 | 36 | 11 | 31 | A261 |
| 15 | 37 | A261 | 25 | 46 |
| 16 | 38 | 13 | 26 | 41 |
| 17 | 3904 | 4 | 14A | 41 |
| 18 | 39 | 3604 | 14A | 46 |
| 19 | 40 | 14A | 20 | 32A |

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| EDML006 REV-'C' AM-1 | 1 | 18.05.2016 |  |  |  | 1 of 1 |
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| ALL INFORMATION ON THIS DRAWING IS UNCLASSIFIED DATE 12/17/99 BY 60322 UCBAW/BJS/STP | | |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
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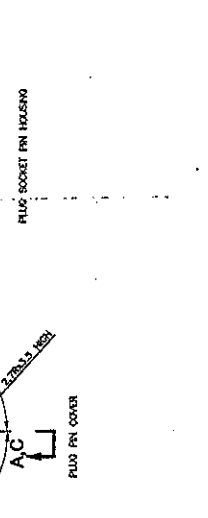
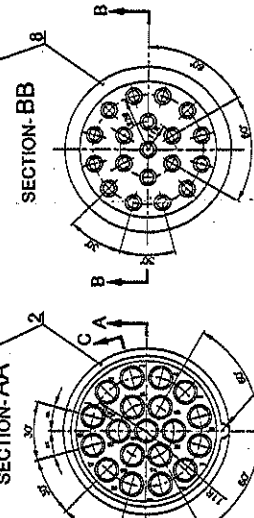
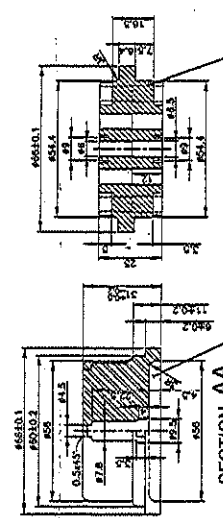
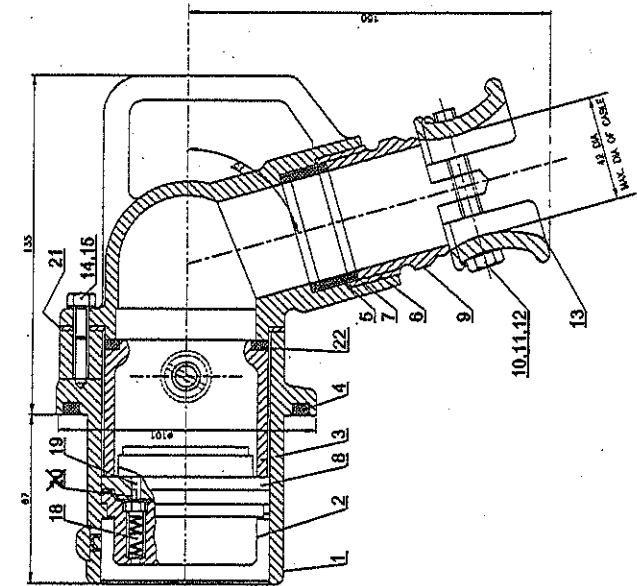
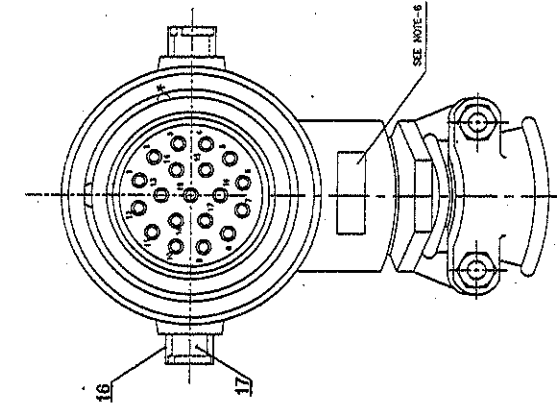
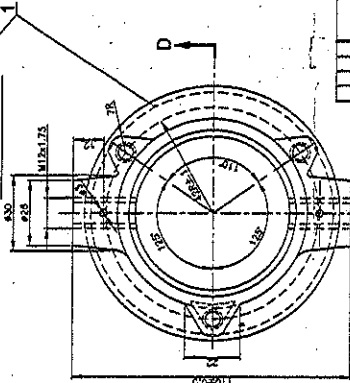
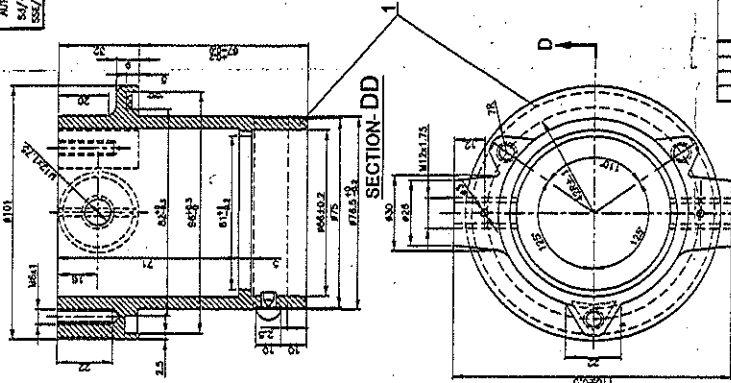
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
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JUNPER ELBOW ASSY
 INDIAN RAILWAY
 STANDARDS
 I.R.S. 100

DATE: 12/17/99
 BY: 60322 UCBAW/BJS/STP

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| ④ 5/79 FOR ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. S/S/SEE/D | ④ 09/04 DRAWING REVISION IN AUTO CAL. S/S/SEE/D | ALTERATIONS ① 10/91 FOR ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31 |
| ⑤ 07/00 NOTE-3 MODIFIED FOR ADDITIONAL PLUG PIN FROM 50 TO 51.5. S/S/SEE/D | ⑥ 1/93 IN SHEET-8 OF 7 IN ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31 | ② 7/81 NOTE-5 ADDED. REMARKS COL. OF ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31. SEE NOTE-2. REMARKS COL. OF ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31. SEE NOTE-2. REMARKS COL. OF ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31. SEE NOTE-2. |
| ⑦ 03/05 FOR REVISION COMPASSION ITEM-23 & NOTE-5 ADDED. S/S/SEE/D | ⑧ 19/05 IN ITEM-1 DIALS COL-4 ADDED ITEM-13 ADDED. S/S/SEE/D | ③ 6/74 NOTE-2 ADDED. REMARKS COL. OF ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31. SEE NOTE-2. REMARKS COL. OF ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31. SEE NOTE-2. |
| ⑨ 05/04 IN ITEM-1 DIALS COL-4 ADDED ITEM-13 ADDED. S/S/SEE/D | ⑩ 05/04 IN ITEM-1 DIALS COL-4 ADDED ITEM-13 ADDED. S/S/SEE/D | ④ 6/74 NOTE-2 ADDED. REMARKS COL. OF ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31. SEE NOTE-2. REMARKS COL. OF ITEM-7 INTERNAL PLUG PIN FROM 50 TO 51.5. SEE NOTE-1. FROM P/RSK TO P/RS-31. SEE NOTE-2. |



- NOTE:
- ① MATERIAL FOR ITEM-1 & 2 SHALL BE OF ALUMINUM TO BS17-34 RESISTANCE TO CORROSION AS PER DRAWING ROOM M SHEET-2 OF 27/04/7-0504 ON 15/10/00.
 - ② MATERIAL FOR ITEM-3 & 4 SHALL BE ALUMINUM TO BS17-34 RESISTANCE TO CORROSION AS PER DRAWING ROOM M SHEET-2 OF 27/04/7-0504 ON 15/10/00.
 - ③ POSITION OF INTERLOCKING PIN FOR PLUGS AS SHOWN IN DRAWING ROOM M SHEET-2 OF 27/04/7-0504 ON 15/10/00.
 - ④ ITEM-18 & 19 SHALL BE RUBBER GASKETS PER I.S. 84 OF 63.3 & 63.5. ELONGATION SHALL BE 150% TO 200% WITH 15 WORKING THICK.
 - ⑤ ITEM-2 & 4B WILL CONFORM TO MATERIAL PER (DMS) TO SPECIFICATION 187/04/00-662.
 - ⑥ MAKE PLATE WORKING MANUFACTURER'S NAME AND MONTH/YEAR OF MANUFACTURE SHALL BE PROVIDED AT A SUITABLE LOCATION. ALTERNATIVELY EMBRASSING CAN ALSO BE DONE.
 - ⑦ ITEM-18 TO BE MADE FROM SOLID METAL.
 - ⑧ THE EXTERIOR SURFACE OF THE CASTINGS SHALL BE MAINTAINED AS SMOOTH AS POSSIBLE.

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|----|--------------------------|----|-------|-------|-------|
| 25 | U.S. SEALING RING | 25 | STEEL | RES-2 | RES-2 |
| 24 | RUBBER GASKET | 24 | BRASS | RES-2 | RES-2 |
| 23 | SPRING | 23 | CAVU | RES-2 | RES-2 |
| 22 | RUBBER GASKET | 22 | CAVU | RES-2 | RES-2 |
| 21 | GASKET | 21 | CAVU | RES-2 | RES-2 |
| 20 | PLUG PIN MALE | 20 | CAVU | RES-2 | RES-2 |
| 19 | PLUG PIN FEMALE | 19 | CAVU | RES-2 | RES-2 |
| 18 | ROLLING SLAVE | 18 | CAVU | RES-2 | RES-2 |
| 17 | ROLLING SLAVE | 17 | CAVU | RES-2 | RES-2 |
| 16 | SPRING WASHER | 16 | CAVU | RES-2 | RES-2 |
| 15 | HEX HD. SCREW | 15 | CAVU | RES-2 | RES-2 |
| 14 | CABLE ENTRY HALF BUSH | 14 | CAVU | RES-2 | RES-2 |
| 13 | SPRING WASHER | 13 | CAVU | RES-2 | RES-2 |
| 12 | HEX INT. NUT | 12 | CAVU | RES-2 | RES-2 |
| 11 | HEX HD. SCREW | 11 | CAVU | RES-2 | RES-2 |
| 10 | CABLE GUIDE | 10 | CAVU | RES-2 | RES-2 |
| 9 | PLUG SOCKET PIN HOUSING | 9 | CAVU | RES-2 | RES-2 |
| 8 | U.S. SEALING RING | 8 | CAVU | RES-2 | RES-2 |
| 7 | PLUG HOLDER | 7 | CAVU | RES-2 | RES-2 |
| 6 | RUBBER GASKET | 6 | CAVU | RES-2 | RES-2 |
| 5 | RUBBER GASKET | 5 | CAVU | RES-2 | RES-2 |
| 4 | SPACER BUSH | 4 | CAVU | RES-2 | RES-2 |
| 3 | PLUG PIN COVER | 3 | CAVU | RES-2 | RES-2 |
| 2 | PLUG BODY | 2 | CAVU | RES-2 | RES-2 |
| 1 | DESCRIPTION & QUANTITIES | 1 | CAVU | RES-2 | RES-2 |

INTER VEHICLE COUPLER
PLUG AND DETAILS

INDIAN RAILWAY
STANDARDS

077

1 OF 2

ICF/SK-7-5-054

