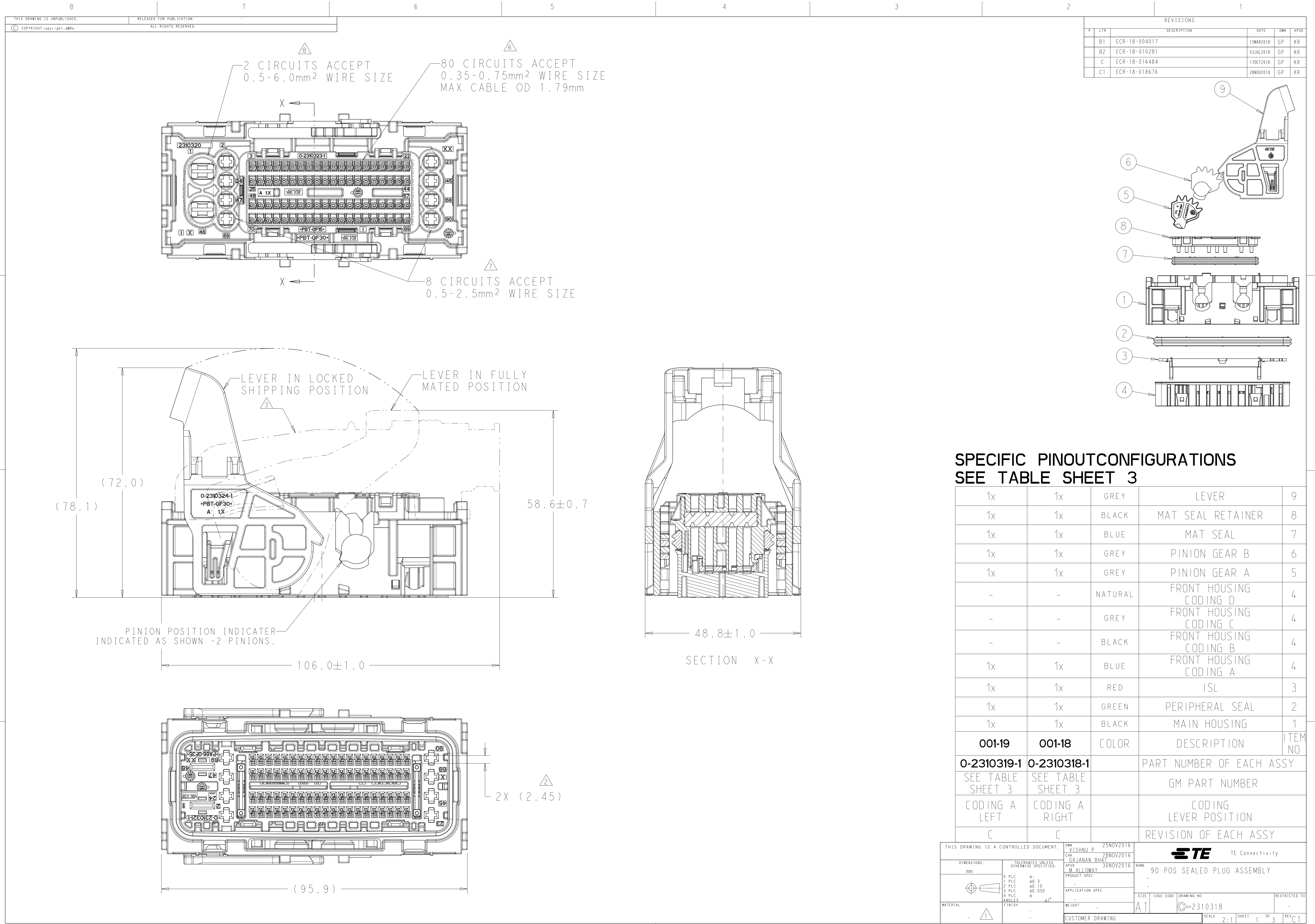




REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
B1		ECR-18-004017	15MAR2018	GP	KR
B2		ECR-18-010281	03JUL2018	GP	KR
C		ECR-18-016484	11OCT2018	GP	KR
C1		ECR-18-018676	28NOV2018	GP	KR

SPECIFIC PINOUTCONFIGURATIONS
SEE TABLE SHEET 3

1x	1x	GREY	LEVER	9
1x	1x	BLACK	MAT SEAL RETAINER	8
1x	1x	BLUE	MAT SEAL	7
1x	1x	GREY	PINION GEAR B	6
1x	1x	GREY	PINION GEAR A	5
-	-	NATURAL	FRONT HOUSING CODING D	4
-	-	GREY	FRONT HOUSING CODING C	4
-	-	BLACK	FRONT HOUSING CODING B	4
1x	1x	BLUE	FRONT HOUSING CODING A	4
1x	1x	RED	ISL	3
1x	1x	GREEN	PERIPHERAL SEAL	2
1x	1x	BLACK	MAIN HOUSING	1
001-19	001-18	COLOR	DESCRIPTION	ITEM NO
0-2310319-1	0-2310318-1		PART NUMBER OF EACH ASSY	
SEE TABLE SHEET 3	SEE TABLE SHEET 3		GM PART NUMBER	
CODING A LEFT	CODING A RIGHT		CODING LEVER POSITION	
C	C		REVISION OF EACH ASSY	

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN VISHNU P 25NOV2016	 TE Connectivity	
DIMENSIONS:		CHK GAJANAN BHAT 28NOV2016		
mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD M. ALLOWAY 30NOV2016	NAME	90 POS SEALED PLUG ASSEMBLY
	0 PLC ±0.3	PRODUCT SPEC	SIZE	RESTRICTED TO
	1 PLC ±0.10	APPLICATION SPEC	CAGE CODE	
	2 PLC ±0.10	WEIGHT	DRAWING NO	
	3 PLC ±0.050	CUSTOMER DRAWING	SCALE	
ANGLES ±1°			SHEET	
FINISH			OF	
MATERIAL			REV	
- 			C=2310318	C1

8

7

6

5

4

3

2

1

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

© COPYRIGHT copy right, d81e-

ALL RIGHTS RESERVED.

NOTES:

⚠ MATERIALS:

MAIN HOUSING : PBT, 30% GF, BLACK

PERIPHERAL SEAL : WACKER ELASTOSIL LR 3844/30 A/B, (30 DUROMETER SHORE A), GREEN

ISL : PBT, 30% GF, RED

FRONT HOUSING : PA66, 35% GF, BLACK LS

PINION GEAR RIGHT : PBT, 30% GF, GREY

PINION GEAR LEFT : PBT, 30% GF, GREY

MAT SEAL : QSR A2361QWB5,DUROMETER 18 (SHORE A), BLUE

MAT SEAL RETAINER : PBT, 15% GF, BLACK LS

LEVER : PBT, 30% GF, GREY

⚠ ISL SHOWN IN OPEN, SHIPPING POSITION.

⚠ WIRE DRESS COVER ASM, GM P/N 12670166 (TE P/N 2310337-1) IS REQUIRED AND SOLD AS A SEPARATE PART.

4. REFER TO TE DRWG 208-162001 FOR MATING INTERFACE DETAILS.

5. PRELIMINARY-PRODUCT HAS NOT COMPLETED VALIDATION TESTING AND IS NOT RELEASED FOR PRODUCTION.

⚠ APPLICABLE 0.64 GENERATION Y TERMINALS:

1-2138699-4 (0.35 mm2 WIRE)

1-2138699-1 (0.5 mm2 WIRE)

1-2138699-2 (0.75 mm2 WIRE)

MAX CABLE OD 1.79mm

⚠ APPLICABLE 2.8 MCP TERMINAL:

1-968855-3 (0.5-1.0 mm2 WIRE)

828904-1 (SWS)

1-968857-3 (1.5-2.5 mm2 WIRE)

828905-1 (SWS)

⚠ APPLICABLE 6.3 MCP TERMINALS:

1241412-3 (0.5-1.0 mm2)

2177018-1 (SWS)

1-1241418-3 (4.0-6.0 mm2 WIRE)

1719043-1 (SWS)

9. LAYER PACKAGING

PACKAGE TYPE	PART NUMBER	QTY
SHIPPING BOX	0-973056-1	1
CORRUGATED INSERT	0-973163-1	4
PAPER CUSHION	0-740045-1	2

10. MAXIMUM WIRE BUNDLE CROSS SECTION AREA OF360mm2 ALLOWED UNDER WIRE DRESS COVER.

11. CONNECTOR CLASSIFICATION:GM3191 JUNE 2012,

TEMP CLASSS T2 (-40° TO 105°C AMBIENT TO CONN SYS)

125°C OPERATING ENVIRONMENT AT TERMINALS

VIBRATION CLASS VI (CHASSIS)

SEALING CLASS S3 (HIGH PRESSURE SPRAY & IMMERSION TO 1m)

GMW3172 NOVEMBER 2012 POWERTRAIN UNDERHOOD TEST FLOW LEGS 1-4,

VIBRATION PROFILE PER TABLE, 8 HRS EACH AXIS.

BREAKPOINT	POWER SPECTRAL DENSITY (G ² /Hz)	FREQUENCY (Hz)
1	0.02	10
2	0.05	20
3	0.05	100
4	0.001	800
5	0.001	2000

12. TERMINALS VALIDATED FOR THIS CONNECTOR: SEE NOTES.

PRODUCT QUALIFICATION TESTING CONDUCTED MATED TO SPECIFIED INTERFACE WITH 6.3mm CIRCUITS ENERGIZED AT 28 AMPS, 2.8mm CIRCUITS ENERGIZED AT 12 AMPS,ALL CIRCUITS ENERGIZED CONCURRENTLY AND ON LARGEST WIRE SIZE. ADDITIONAL QUANTITY OF 16-0.64mm CIRCUITS POWERED AT 3 AMPS CONCURRENTLY WITH ABOVE ON MAXIMUM WIRE SIZE. (CONTACT CONNECTOR DRE IF DEVIATION IS NEEDED).

13. CONNECTOR SHIPPED WITH THE CPA AND ISL IN THE PRE-LOCK POSITION.

14. REFERENCE TE INSTRUCTION SHEET 408-32192 FOR HARNESS MANUFACTURE AND VEHICLE ASSEMBLY PLANT ASSEMBLY/ DISASSEMBLY AND REPAIR INSTRUCTIONS.

15. THE FOLLOWING DEVIATIONS APPLY TO ACCEPTANCE CRITERA OF ABOVE SPECIFICATIONS:

PRIMARY LOCK RETENTION ON 0.64mm TERMINAL LOCATIONS IS 25N AVERAGE.

TERMINAL INSERTION WITH ISL CLOSED IS 34N AVERAGE FOR 6.3mm TERMINALS AND 29N AVERAGE FOR 2.8mm TERMINALS.

ISL PRE-LOCK TO LOCK AND LOCK TO PRE-LOCK TESTED BY ACTUATING ISL COLUMNS INDIVIDUALLY AS SHOWN IN INSTRUCTION SHEET 408-32192.

NO LEVER "POP-UP" AT PRE-SEATING TO DEVICE.

FOR MATING WITH SPECIFIED INTERFACE, WORST CASE CONTACT WIPE CAN BE BELOW 1.0mm FOR ALL CONTACTS. STATISTICAL BEST FIT IS GREATER THAN 1.0mm FOR ALL CONTACTS.

LEVER RETENTION IN SHIPPING POSITION IS 110N AVERAGE.

⚠. A SIX DIGIT MARKING ACC. TABLE (SEE SHEET 3) LOCATED ON FRONT OF FEMALE HOUSING.

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN VISHNU P 25NOV2016

CHK GAJANAN BHAT 28NOV2016

APVD M ALLOWAY 30NOV2016

DIMENSIONS:

mm

0 PLC ±0.3

1 PLC ±0.3

2 PLC ±0.10

3 PLC ±0.050

4 PLC ±

ANGLES ±1°

FINISH -

MATERIAL -

-

PRODUCT SPEC

APPLICATION SPEC

WEIGHT -

CUSTOMER DRAWING

NAME 90 POS SEALED PLUG ASSEMBLY

SIZE A1

CAGE CODE

DRAWING NO 2310318

RESTRICTED TO -

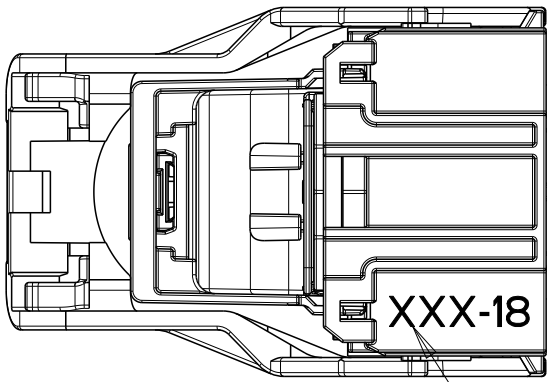
SCALE 2:1

SHEET 2 OF 3

REV C1

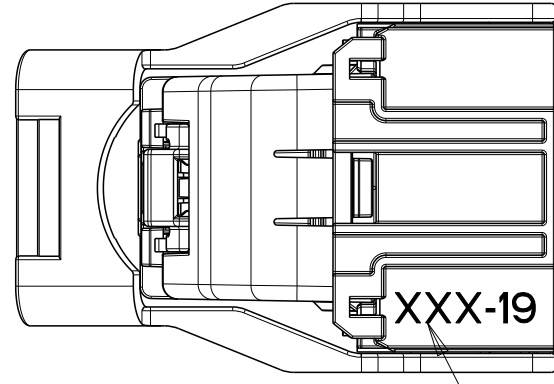
TE Connectivity

4805 (3/13)



IN THIS AREA NO
PINOUT CONFIGURATIONS
POSSIBLE.
CAVITIES ARE NOT
FACTORY BLOCKED.

16

[illegible]

IN THIS AREA NO
PINOUT CONFIGURATIONS
POSSIBLE.
CAVITIES ARE NOT
FACTORY BLOCKED.

16

[illegible]1805 (3/13)