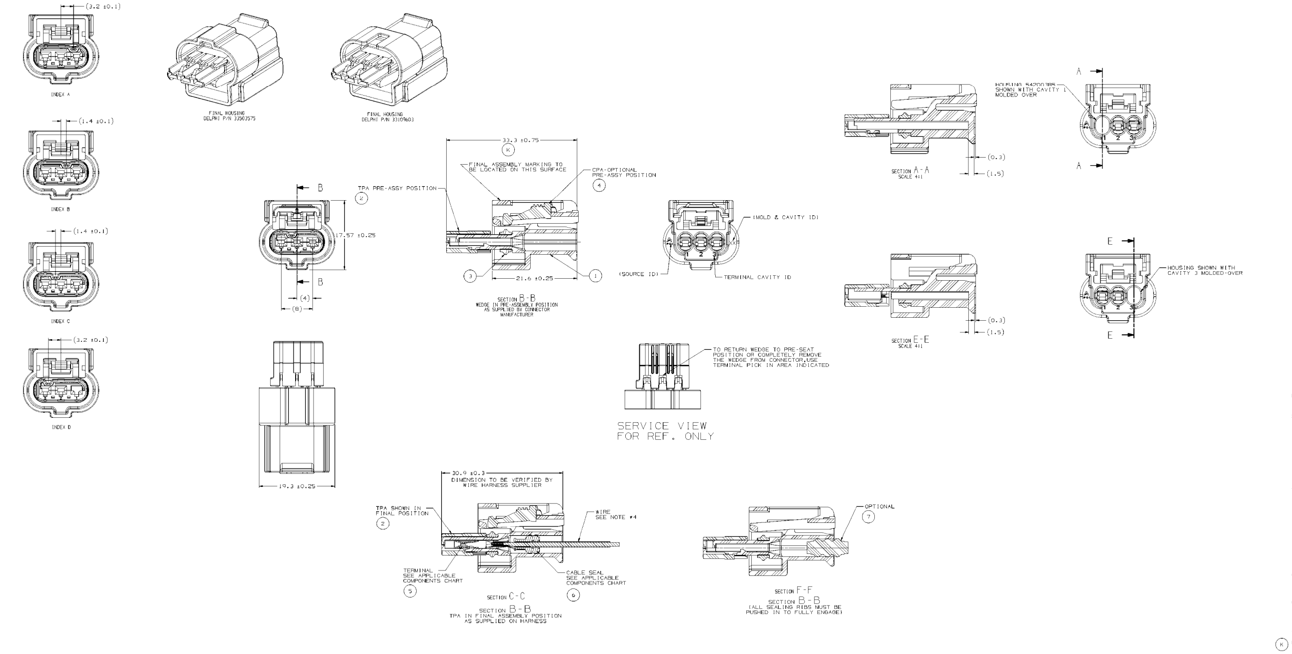
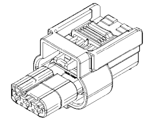
DWG STATUS					ZONE	REVISION HISTORY	AUTH	DR	APVD 1	APVD 2
DATE	STG	REV	N/P	CHG						
15DE16	R	11	-	-		REDRAWN AND RELEASED PART DRAWING	430393	SM	RRR	VHG



(3.2 ±0.1)
INDEX A
(1.4 ±0.1)
INDEX B
(1.4 ±0.1)
INDEX C
(3.2 ±0.1)
INDEX D
FINAL HOUSING
DELPHI P/N 33503575
FINAL HOUSING
DELPHI P/N 33109603
B
B
TPA PRE-ASSY POSITION
2
17.57 ±0.25
(4)
(8)
33.3 ±0.75
K
FINAL ASSEMBLY MARKING TO BE LOCATED ON THIS SURFACE
CPA-OPTIONAL PRE-ASSY POSITION
4
3
21.6 ±0.25
1
SECTION B-B
WEDGE IN PRE-ASSEMBLY POSITION AS SUPPLIED BY CONNECTOR MANUFACTURER
(MOLD & CAVITY ID)
(SOURCE ID)
TERMINAL CAVITY ID
1
2
3
19.3 ±0.25
TO RETURN WEDGE TO PRE-SEAT POSITION OR COMPLETELY REMOVE THE WEDGE FROM CONNECTOR,USE TERMINAL PICK IN AREA INDICATED
SERVICE VIEW
FOR REF. ONLY
30.9 ±0.3
DIMENSION TO BE VERIFIED BY WIRE HARNESS SUPPLIER
TPA SHOWN IN FINAL POSITION
2
WIRE
SEE NOTE #4
TERMINAL
SEE APPLICABLE COMPONENTS CHART
5
CABLE SEAL
SEE APPLICABLE COMPONENTS CHART
6
SECTION C-C
SECTION B-B
TPA IN FINAL ASSEMBLY POSITION AS SUPPLIED ON HARNESS
OPTIONAL
7
SECTION F-F
SECTION B-B
(ALL SEALING RIBS MUST BE PUSHED IN TO FULLY ENGAGE)
SECTION A-A
SCALE 4:1
(0.3)
(1.5)
HOUSING 54200385 SHOWN WITH CAVITY 1 MOLDED OVER
A
A
SECTION E-E
SCALE 4:1
(0.3)
(1.5)
HOUSING SHOWN WITH CAVITY 3 MOLDED-OVER
E
E



NOTES:

1) VALIDATED TO SAE/USCAR-2 REV 4

2) VALIDATED TO THE FOLLOWING TEMP, VIBRATION, AND SEALING CLASSES:
- GMW3191 SECTION 4.28 V4 T4 (155°C) WITH GOLD OR SILVER TERMINALS
- SAE/USCAR-2 V3 T4 (150°C) WITH GOLD OR SILVER TERMINALS
- SAE/USCAR-2 V3 T3 (125°C) / V2 T4 (150°C) WITH TIN/SILVER TERMINALS
- SAE/USCAR-2 V2 T3 (125°C) WITH TIN TERMINALS
- SAE/USCAR-2 SEALING S3 T4 (150°C)(ISO16750 9K EQUIVELENT)

3) CONNECTOR MAY BE USED WITH THE FOLLOWING TERMINALS:
- DELPHI APEX 1.2 TERMINALS LISTED IN THE APPLICABLE COMPONENTS CHART ON THIS DRAWING WITH WIRE SIZES DEFINED IN NOTE 4.
- SEE DELPHI DRAWING C18001-1-2-CUST FOR SPECIFIC TERMINAL DETAILS AND CRIMPING REQUIREMENTS
- PLATING OF TERMINALS AND MATING DEVICE BLADES MUST BE COMPATIBLE

4) CONNECTOR SYSTEM VALIDATED TO USCAR-2 REQUIREMENTS WITH THE FOLLOWING RANGE OF WIRE SIZES AND TYPES IN CONJUNCTION WITH APPROPRIATE COMPONENTS FOUND IN THE "APPLICABLE COMPONENTS" CHART:

AWG - WIRE SIZES: 22AWG - 16AWG
INSULATION DIAMETER: 1.50mm MIN - 2.41mm MAX
WIRE TYPE: MIL123-A, MS-8288, MS-9502 OR EQUIVALENT
(STRUCTURE AND PROPERTIES ACCORDING TO SAE J1128)
METRIC - WIRE SIZES: 0.35mm² - 1.25mm²
INSULATION DIAMETER: 1.20mm MIN - 2.30mm MAX
WIRE TYPE: FLR2X, FLR9X OR EQUIVALENT
(STRUCTURE AND PROPERTIES ACCORDING TO ISO 6722)

CONTACT DELPHI ENGINEERING REGARDING USE OF OTHER WIRE SIZES AND /OR TYPES

WIRE AND INSULATION TYPE MUST BE APPROPRIATE FOR TEMPERATURE CLASS & APPLICATION ENVIRONMENT

5) CONNECTOR IS MATE COMPATIBLE WITH DEVICES WHICH CONFORM WITH THE FOLLOWING USCAR INTERFACE SPECIFICATIONS:
- (20-S-003-1-Z01 (WITH EWCAP-001 TYPE 120-T BLADES)
- (20-S-003-1-Z02 (WITH EWCAP-001 TYPE 120-T BLADES)

6) ANNUAL QUALITY REQUIREMENTS:
- IT IS PERMISSIBLE TO PERFORM CONTINUOUS CONFORMANCE PER DELPHI SPECIFICATION #A0A-001 INSTEAD OF ANNUAL LAYOUT AND ANNUAL PV REQUIREMENTS OF ISO TS16949 AND SAE/USCAR-2 REV 5. FOR TERMINAL TO CONNECTOR AND TPA TO CONNECTOR ONLY.

7) SOURCE ID, MOLD & CAVITY ID SIGNIFIES TOOL OWNERSHIP, FOR REFERENCE

Ⓚ 8) INDICATES IN-PROCESS INSPECTION FOR MANUFACTURING DIMENSIONS OR SPECIFICATIONS.

9) FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.

ITEM NO.	COMPONENT	MATERIAL
4	CPA	PA66 GF35
3	RING SEAL	SILICONE
2	TPA	PA66 GF35
1	HOUSING	PA66 GF35

PART NUMBERS					KEY OPTION	MOLDED OVER POSITIONS			INSULATOR (HOUSING)			TPA (DK. BLUE)		RING SEAL (BURNT ORANGE)		CPA (RED)	
DELPHI	REV	N/P	MVL	REV		1	2	3	COLOUR	DELPHI	MVL	DELPHI	MVL	DELPHI	MVL	DELPHI	MVL
33126400	01	AA	-	01	A				BLACK	33109603	-	33503735	54200386	33504635	54200392	33503756	F752210
13925686	01	AC	F177010	K	D	X			DK GRAY	33503578	54200385	33503737	54200389	33504635	54200392	33503756	F752210
33511474	01	AA	F600900	K	C				BROWN	33503577	54200384	33514705	54200388	33504635	54200392	33503756	F752210
13982959	01	AA	F500900	K	B				LT GRAY	33503576	54200383	33503736	54200387	33504635	54200392	33503756	F752210
13893234	01	AC	F519600	K	A				BLACK	33503575	54200382	33503735	54200386	33504635	54200392	33503756	F752210
13576035	01	AI	54200381	H	D	X			DK GRAY	33503578	54200385	33503737	54200389	33504635	54200392	N/A	N/A
33511473	01	AA	54200380	H	C				BROWN	33503577	54200384	33514705	54200388	33504635	54200392	N/A	N/A
13800877	01	AF	54200379	H	B				LT GRAY	33503576	54200383	33503736	54200387	33504635	54200392	N/A	N/A
33225996	01	AA	-	01	A			X	BLACK	33225995	-	33503735	54200386	33504635	54200392	N/A	N/A
13578335	01	AH	54200378	H	A				BLACK	33503575	54200382	33503735	54200386	33504635	54200392	N/A	N/A

ITEM NO.	ITEM DESCRIPTION	PLATING OR COLOUR	SUPPLIER		DELPHI NUMBER	GRIP CODE	WIRE SIZE	INSULATION DIA RANGE	MATERIAL/SPEC NO
			NAME	NUMBER					
7	1.20 SYSTEM CAVITY PLUG	GREEN	MVL(QSR)	0A28010 (A-0412)	13898957	-	OPTIONAL	OPTIONAL	SILICON
6	1.20 SYSTEM CABLE SEAL ROUND	TIN	MVL(QSR)	0073510 (A-0419B)	33511987	-	0.35 mm²	1.20 mm - 1.40mm	SILICON
6	1.20 SYSTEM CABLE SEAL ROUND	GREEN	MVL(QSR)	(A-0419C)	33402838	-	22-20 AWG 0.5-0.75 mm²	1.40 mm - 1.90 mm	SILICON
6	1.20 SYSTEM CABLE SEAL ROUND	RUSTED RED	MVL(QSR)	0528010 (A-0419)	13898958	-	18-16 AWG 1.00-1.25 mm²	1.90mm - 2.41 mm	SILICON
5	1.20 SYSTEM TERMINAL	GOLD	MVL	54002005	13827658	20	22-20 AWG 0.35-0.50mm²	1.20mm-1.90mm	COPPER ALLOY/NA
5	1.20 SYSTEM TERMINAL	GOLD	MVL	54001863	13579640	18	18-16 AWG 0.75-1.25mm²	1.70mm - 2.41mm	COPPER ALLOY/NA
5	1.20 SYSTEM TERMINAL	SILVER	MVL	F931400	13805375	20	22 - 20 AWG 0.35-0.5mm²	1.20mm - 1.90mm	COPPER ALLOY/NA
5	1.20 SYSTEM TERMINAL	SILVER	MVL	F731400	13805376	18	18-16 AWG 0.75-1.25mm²	1.70 mm-2.41mm	COPPER ALLOY/NA
5	1.20 SYSTEM TERMINAL	TIN/SILVER	MVL	54002007	15521522	20	22-20 AWG 0.35-0.50mm²	1.20mm -1.90mm	COPPER ALLOY/NA
5	1.20 SYSTEM TERMINAL	TIN/SILVER	MVL	54001866	13587331	18	18-16 AWG 0.75-1.25mm²	1.70mm-2.41mm	COPPER ALLOY/NA
5	1.20 SYSTEM TERMINAL	TIN	MVL	54002006	13806233	20	22-20 AWG 0.35-0.5mm²	1.20mm -1.90mm	COPPER ALLOY/NA
5	1.20 SYSTEM TERMINAL	TIN	MVL	54001864	13576990	18	18-16 AWG 0.75-1.25mm²	1.70mm-2.41mm	COPPER ALLOY/NA

DRAWING NUMBER						
13600161						
SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1×3	4:1	2 OF 2	1 OF 1	R	11	-

(N/A) PROCESS SENSITIVE DIMENSION

DIMENSIONS ENCLOSED IN ( ) INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED

DIMENSIONAL RANGE (MM)									CHART E1
FROM TO	> 0 20	> 20 30	> 30 70	> 70 100	>100 150	>150 200	>200 250	>250 300	>300 400
TOLERANCE UNLESS OTHERWISE SPECIFIED									
	±0.15	±0.2	±0.3	±0.4	±0.5	±0.6	±0.8	±1	±1.2
ANGULAR TOLERANCE ±2°									

A LINE DRAWN THROUGH A PART NUMBER INDICATES THAT PHYSICAL PARTS ARE NOT AVAILABLE FOR ORDERING.

PART NUMBERS THAT DO NOT HAVE A LINE PRESENT INDICATE THAT PHYSICAL PARTS ARE AVAILABLE FOR ORDERING.

CONTACT DELPHI SALES TO ASSURE AVAILABILITY OF PARTS.

DWG TYPE: PART DRAWING
STYLE
VOLUME (CAP)
DISTR CODE: D

UNLESS OTHERWISE SPECIFIED

THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMENDED BY THE GM GLOBAL DIMENSIONING AND TOLERANCING ADDENDUM-2001. SEPARATE PATTERNS OF FEATURES MAY BE GAGED SEPARATELY REGARDLESS OF DATUM REFERENCES.

ALL DIMENSIONS ARE IN MILLIMETERS

REFERENCE

THIRD ANGLE PROJECTION

DO NOT SCALE
USE MATH DATA
CAD NX

DELPHI

DELPHI PACKARD ELECTRICAL/ELECTRONIC ARCHITECTURE
Chennai, India

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		DATE
DR		
APVD1	M.SAKTHIVEL	15DE16
APVD2	R.RAMASWAMY	15DE16
APVD3	H.VLADIMIR	15DE16
APVD4		
APVD5		

SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER DELPHI 10949001

MATERIAL
SEE CHART

DRAWING NAME
TAXI ASM CONN 3 F 1.2 SLD

DRAWING NUMBER
13600161

SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1×3	4:1	1 OF 2	1 OF 1	R	11	-

13600161