



SCALE 2:1



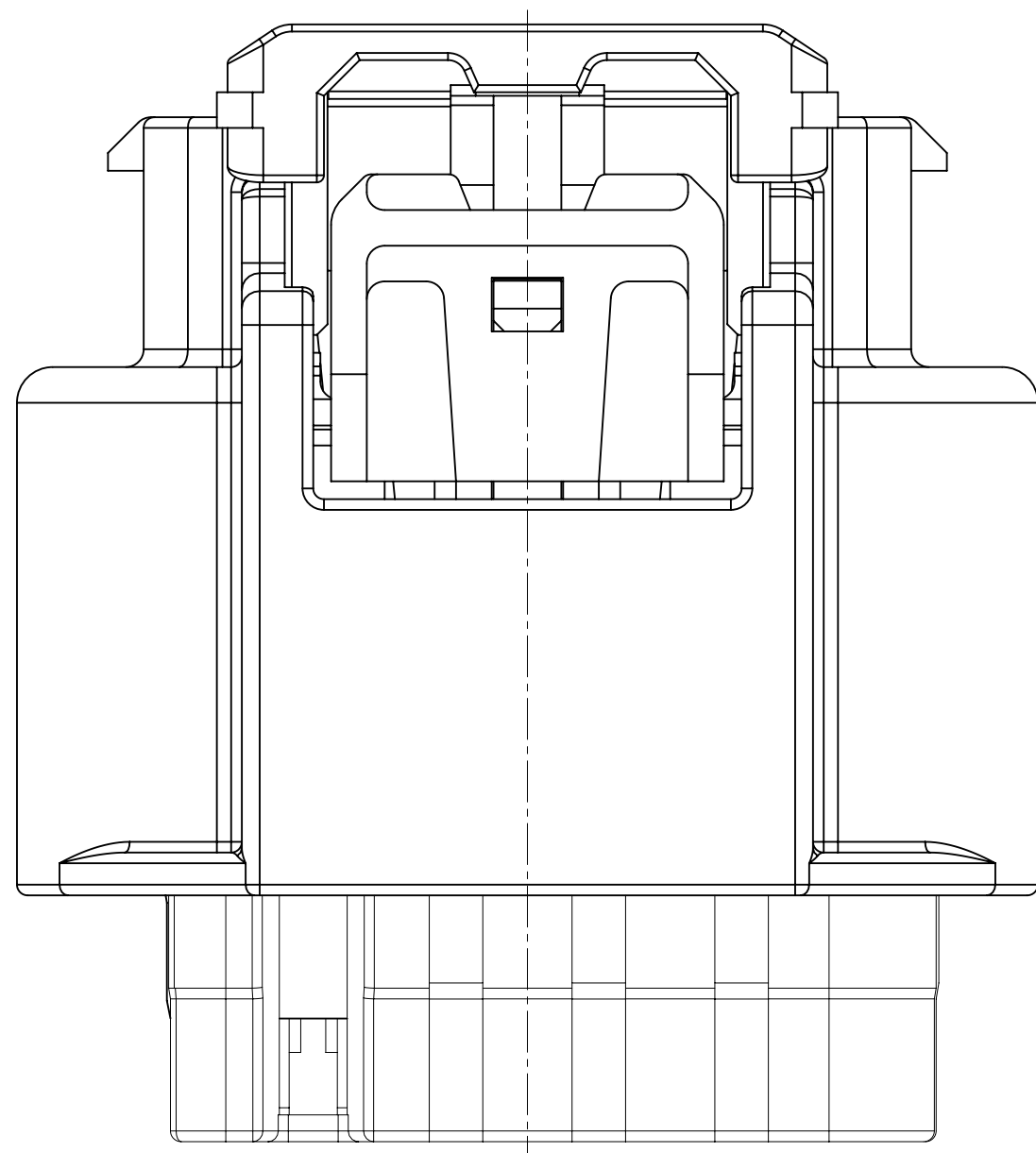
KEY B
SCALE 2:



KEY C
SCALE 2:1



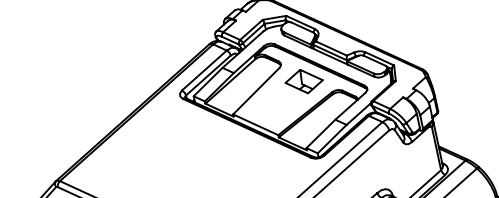
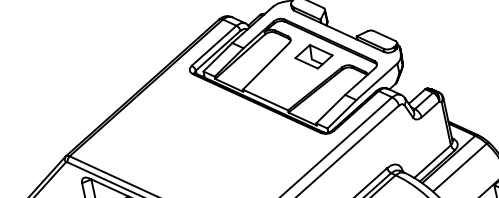
KEY D
SCALE 2:1



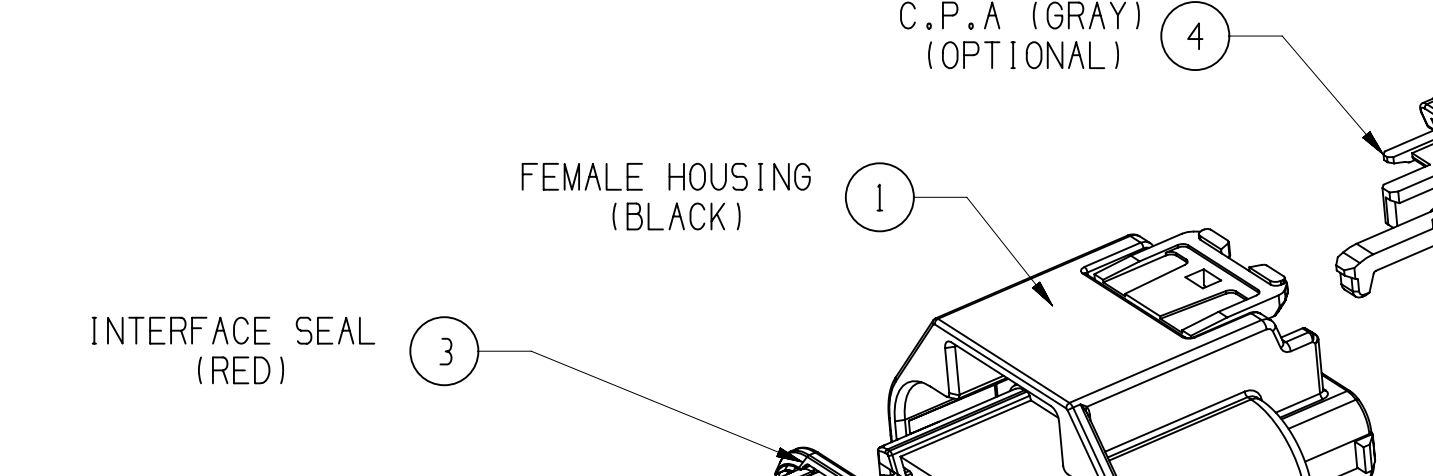
SECTION A - A



SECTION B - B

ISOMETRIC VIEW			
OPTION		WITH CPA	WITHOUT CPA
DELPHI	PART NUMBER	33241268 35335583	33241269
	PART REVISION	01	01

A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL  DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	TOTAL NO OF INSPECTIONS REQUIRED	4
	LAST NO. USED	4



C.P.A. (GRAY)
(OPTIONAL) ④

FEMALE HOUSING
(BLACK) ①

INTERFACE SEAL
(RED) ③

FRONT TPA
(SEE CHART FOR COLOR) ②

EXPLODED VIEW
SCALE 2:1

MISSING SYMBOLS	ZONE					REVISION HISTORY		AUTH	DR	APRVD	APRVC
	DATE	STS	REV	N/P	CHK						
NO MISSING SYMBOL NUMBER	060C16	R	01	-	-	INITIAL RELEASE					
	110C16	R	02	-	-	CHANGED PART NUMBER ADDED DUMMY SEAL (DARK GRAY)					
	22DE17	R	03	-	-	ADDED NOTES 5 MODIFIED TABLE OF CABLE SEAL					
	08AP19	R	04	-	-	ADDED PART NO. WITH NEW CPA (LT GRAY)		446177			

4	1	CPA	PA66 GF35%	GRAY	33219398	OPTIONAL
3	1	INTERFACE SEAL	SILICONE RUBBER	RED	33272062	
2	1	TPA CODE A	PA66 GF30%	ROYAL BLUE	33272057	
1	1	FEMALE HOUSING	PA66 GF30%	BLACK	33272048	
REP	QTY	DESCRIPTION	MATERIAL	COLOR	DELPHI P/N	REMARK

TYPE	ASSEMBLY	CODING TYPE	HOUSING	TPA		INTERFACE SEAL	CPA (OPTIONAL)
				P/NO	COLOR		
WITH CPA	33241268	A	33272048	33272057	ROYAL BLUE	33272062	33219398 (GRAY)
	33271696	B		33272058	BROWN		
	33271697	C		33272059	LT GRAY		
	33271699	D		33272060	RED		
	35335583	A		33272057	ROYAL BLUE		35335604 (LT GRAY)
	35335584	B		33272058	BROWN		
	35335585	C		33272059	LT GRAY		
	35335586	D		33272060	RED		
WITHOUT - CPA	33241269	A	33272057	ROYAL BLUE	-		
	33271700	B		33272058		BROWN	
	33271702	C		33272059		LT GRAY	
	33271703	D		33272060		RED	

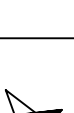
CABLE SEAL						
TYPE	PART NUMBER	MVL PART NUMBER	WIRE SIZE (mm ²)	INSULATION (Ø)	COLOR	MATERIAL
LONG	33513680	F310400	0.3 ~ 0.35	1.2 ~ 1.5	RED	SILICONE RUBBER
	33511838	F410400	0.5 ~ 0.85	1.6 ~ 1.9	GRAY	
	33513681	F599700	1.0 ~ 1.5	2.0 ~ 2.4	YELLOW	
SHORT	33318278	-	0.3 ~ 0.35	1.2 ~ 1.6	GRAY	
	33318279	-	0.5 ~ 0.85	1.6 ~ 1.9	LIGHT GRAY	
	33318275	-	1.0 ~ 1.5	1.9 ~ 2.4	BLACK	
DUMMY SEAL	33402443	-	-	-	WHITE	
	35020635	-	-	-	DARK GRAY	
LONG	33268526	-	0.3 ~ 0.35	1.2 ~ 1.5	BLUE	
SHORT	33366680	-	0.3 ~ 0.35	1.2 ~ 1.6	BLUE	
	33366681	-	0.5 ~ 0.85	1.6 ~ 1.9	GREEN	
	33366679	-	1.0 ~ 1.5	1.9 ~ 2.4	BROWN	

ASSOCIATED PARTS				
FEMALE TERMINAL		PART NUMBER	WIRE SIZE (OD, mm ²)	TYP (AWG)
APEX 1.2	TIN	54001864	0.75 ~ 1.25	16 18
		54002006	0.3 ~ 0.5	20 22
	SILVER STRIPE, SPOT	F731400	0.75 ~ 1.25	16 18
		F931400	0.3 ~ 0.5	20 22
	GOLD STRIPE, SPOT	54001863	0.75 ~ 1.25	16 18
		54002005	0.3 ~ 0.5	20 22
	TIN SILVER	54001866	0.75 ~ 1.25	16 18
		54002007	0.3 ~ 0.5	20 22

		LIMITS ARE ESTABLISHED																		
DIMENSIONAL RANGE INMM		CHART E																		
FROM	> 0	> 26	> 30	> 70	> 100	> 150	> 200	> 250	> 300	> 400										
TO	20	30	70	100	150	200	250	300	400											
TOLERANCE UNLESS OTHERWISE SPECIFIED																				
<table><tr><td>±0.15</td><td>±0.2</td><td>±0.3</td><td>±0.4</td><td>±0.5</td><td>±0.6</td><td>±0.8</td><td>1</td><td>±1.2</td></tr></table>												±0.15	±0.2	±0.3	±0.4	±0.5	±0.6	±0.8	1	±1.2
±0.15	±0.2	±0.3	±0.4	±0.5	±0.6	±0.8	1	±1.2												
ANGULAR TOLERANCE ±2°																				

NOTES:

1. TOLERANCE MUST MEET DIN ISO 2768(M)
2. TEST SPECIFICATION PER : HKMC E591500-00
3. ALLOWED WIRE RANGE :
0.3mm² TO 1.25mm² (JASO WIRE)
4. APPLICABLE TERMINAL : APEX1.2 FEMALE TERMINAL
5. APPLICABLE MATERIAL OF SEAL IS ONLY SILICONE RUBBER FOR HKMC

A LINE DRAWING 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 APPROV SALES TO ASSURE AVAILABILITY OF PARTS.	
DWG TYPE	
PART DRAWING	
STYLE	
VOLUME (CM ³)	DISTR CODE
UNLESS OTHERWISE SPECIFIED	
THIS DOCUMENT IS IN ACCORDANCE WITH ANSI Y14.5-1994 AS AMENDED BY THE AMERICAN SURVEYING AND TELEGRAPHIC MAP ADJUSTMENT SOCIETY. SEPARATE PATTERNING OF DIMENSIONS MAY BE REQUIRED TO OBTAIN COMPLETELY REPRODUCIBLE OF REFERENCES.	
ALL DIMENSIONS ARE IN MILLIMETERS	
REFERENCE	
THIRD ANGLE PROJECTION	DO NOT SCALE
USE MATH DATA	

• APTIV •

CONNECTION SYSTEMS

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DR	DATE
APV01	SUNG, YUN-KYU 0600C16
APV02	JUNG, JAE-YUN 0600C16
APV03	PAEK, JOO-HYUP 0600C16
APV04	
APV05	

SUBSTANCES OF CONCERN AND RECYCLED
CONTENT PER DELPHI 10949001

SEE TABLE

MATERIAL

DRAWING NAME:
APEX1.2 5WAY FEMALE CONNECTOR ASSY

DRAWING NUMBER:
33390988

SIZE	SCALE	FRAME	SHEET	NO	REV	APP
A0	1:1	1 OF 1	1 OF 1	R	04	

DIN ISO 2768		Tolerance Class medium (m)						
Linear Dimensions except for broken edges		Permissible deviations for basic size range (mm)						
		0,5 +1	up to 3 up to 3	over 3 up to 6 up to 6	over 6 up to 30 up to 30	over 30 up to 120 up to 120	over 120 up to 400 up to 400	over 400 up to 1000 up to 1000
		±0,1		±0,2	±0,3		±0,5	
		Permissible deviations for basic size range (mm)						
Broken edges (radial, chamfers)		0,5 +1		up to 3 up to 3		over 6 up to 10		
		±0,2		±0,5		±1		
		Permissible deviations for ranges of lengths, in mm, of the shorter side of the angle concerned						
Angular dimensions		up to 10 °1*		over 10 up to 50 °10*	over 50 up to 120 °10*	over 120 up to 400 °10*	over 400 °10*	
		±1*		±0° 30'	±0° 20'	±0° 10'	±0° 5'	
		*1 For nominal sizes below 0,5mm, the deviations shall be indicated adjacent to the relevant nominal size(s)						

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