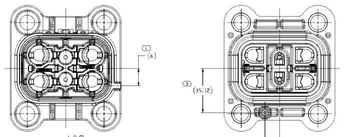
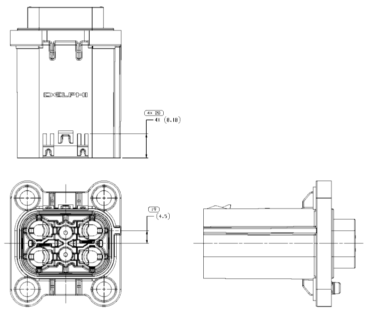
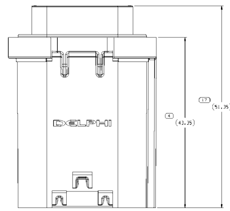
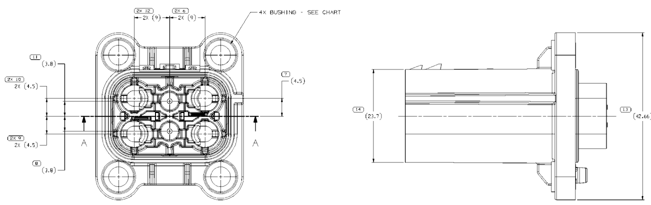


TYPE 102
SAME AS TYPE 101
EXCEPT AS SHOWN
SCALE 3:1

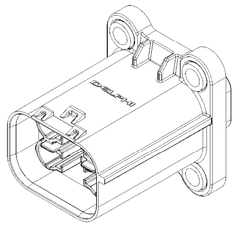


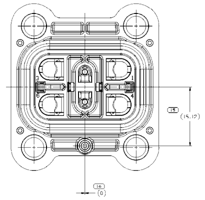
TYPE 103
SAME AS TYPE 101
EXCEPT AS SHOWN
SCALE 3:1

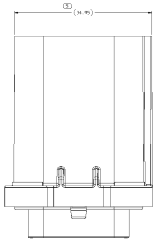


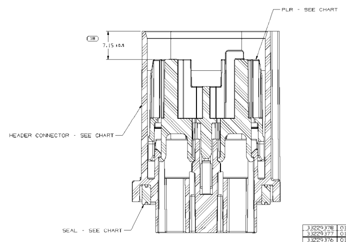


TYPE 101



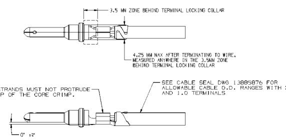






SECTION A-A

2.4 & 1.0 TERMINAL & WIRE APPLICATION REQUIREMENTS



DELPHI HES 2.4 TERMINAL - 13783284 OR EQUIVALENT WITH GOLD PLATED INTERFACE FOR POWER CIRCUITS.
DELPHI HES 1.0 TERMINAL - 13711545 OR EQUIVALENT WITH GOLD PLATED INTERFACE FOR SIGNAL CIRCUITS.

1. >25A CONTINUOUS CURRENT APPLICATIONS REQUIRE 5.0 - 6.0 mm² COPPER CONDUCTORS ON THE 2.4 TERMINALS.
2. GOLD PLATED TERMINAL INTERFACES ARE REQUIRED TO MEET USCAR-2 CONNECTOR ELECTRICAL CRITERIA.
3. TERMINAL TEMPERATURES NEED TO BE MEASURED IN THE APPLICATION TO INSURE THE FOLLOWING:
   - TERMINAL TEMPERATURE RISE OVER AMBIENT IS ≤30°C AT MAXIMUM CONTINUOUS CURRENT.
   - TERMINAL TEMPERATURE (AMBIENT + RISE) IS ≤125°C AT MAXIMUM CONTINUOUS CURRENT AND MAXIMUM AMBIENT.
4. ELECTRIC VEHICLE CHARGING APPLICATIONS REQUIRE WIRE TO TERMINAL INTERFACE RESISTANCE ≤0.2 mOhms.
   - SOLDERED CRIMPS ARE RECOMMENDED.

DRAWING NUMBER						
13885884						
SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1x3	4:1	2 OF 2	1 OF 1	R	14	

SYMBOL DEFINITION		
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	27
	LAST NO. USED	20

MISSING SYMBOLS
NO MISSING SYMBOL NUMBER

DWG STATUS DATE	STG	REV	N/P	CHG	ZONE	REVISION HISTORY	AUTH	DR	APVD 1	APVD 2
09MY11	R	01	-	-		WAS PE204840 AND RELEASED	414205	TAI	TAI	TAG
26JL11	R	02	-	-		ALL PARTS: ADDED DIM 18; NO REV UPDATE REQUIRED	414934	CM	CM	TAG
31JA12	R	03	-	-		ALL PARTS - ADDED APPLICATION INFO. AND NOTES #3, 4, 5, 6 & 7	416901	TAI	TAI	TAG
06MY13	R	04	-	-		ALL PARTS - ADDED "TERMINAL & WIRE" VIEW AND UPDATED "REFERENCE MATING" NOTE	422393	CGD	JVM	EDA
10MY13	R	05	-	-		CORRECTED ISOMETRIC VIEW	422513	AAS	EDA	AAS
23MY13	R	06	-	-		15543396 - WAS SEPARATE DRAWING; ALL PARTS - UPDATED "TERMINAL & WIRE" VIEW	422694	JGM	JGM	EDA
18JL13	R	07	-	-		15543396 - UPDATED PART AVAILABILITY	423324	AAS	JRV	AAS
08NO13	R	08	-	-		REVISED TERMINAL & WIRE APPLICATION REQUIREMENTS NOTE	424547	YVH	YVH	CDL
04AU14	R	09	-	-		ALL PARTS - ADDED CREEPAGE INFORMATION NOTE	427118	AHG	YVH	YVH
10FE15	R	10	-	-		33229376 - 77 & 78 - RELEASED	428828	ABH	JVM	YVH
03AU16	R	11	-	-		33229376-78 - UPDATED PART AVAILABILITY	433501	AHY	AHY	YVH
25AU16	R	12	-	-		13879038 - 39 & 15543396 - OBSOLETE AND ADDED "REPLACED BY" INFO	434006	JVM	JVM	RJE
25NO16	R	13	-	-		13879038 - REINSTATED AND REMOVED "REPLACED BY" INFORMATION	435025	AHG	AHG	RJE
16DE16	R	14	-	-		13879038 - OBSOLETE AND ADDED "REPLACED BY" INFORMATION	435206	GDH	JVM	ERM

NOTES

1. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:

   DIMENSIONS ARE TO FACE OF VIEW SHOWN AND AUTOMATICALLY ROUNDED BY COMPUTER FOR INSPECTION (SEE MATH MODEL FOR PRECISE DIMENSIONS). FOR ALL OTHER DIMENSIONS NOT SHOWN BUT REQUIRED FOR TOOL BUILD, SEE MATH MODEL FOR PRECISE TOOL PATH DATA.

2. THIS PRODUCT IS NOT CATEGORIZED AS AN APPEARANCE ITEM, MINOR IMPERFECTIONS INCLUDING, BUT NOT LIMITED TO, FLOW MARKS, COLOR BLEMISHES, GATE VESTIGE, AND SOFT FLASH THAT DO NOT AFFECT THE FIT, FORM, OR FUNCTION OF THE PART ARE PERMISSIBLE PER DPNP-4.7-CS-01.

3. CONNECTOR ASSEMBLIES ARE VALIDATED TO SAE/USCAR-37 REV.01 - AUG.'08 TEMPERATURE CLASS T1, SEALING CLASS S3, VIBRATION CLASS V1, AND MATING CYCLES M1.

4. SEAL MAY BECOME DISLODGED DURING SHIPPING AND HANDLING. BEFORE ATTACHING TO THE MATING DEVICE OR COVER, THE OPERATOR MUST INSURE THE SEAL IS INTACT AND PROPERLY ASSEMBLED AS SHOWN.

5. RECOMMENDED FASTENER TIGHTENING TORQUE IS 3.5 +/- 0.5 NEWTON-METERS.

6. HARNESS MANUFACTURER IS RESPONSIBLE FOR VALIDATING THE CONNECTION AS APPLIED ON CABLE TO THE REQUIREMENTS OF SPECIFIC APPLICATIONS.

7. REFERENCE MATING COMPONENTS OR EQUIVALENT:

   MODULE CASE DETAIL - 13943505

8. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.

9. CONNECTOR DESIGNS PROVIDE THE FOLLOWING MINIMUM CREEPAGE DISTANCES WHEN MATED, AS ASSESSED PER IEC60664 WITH POLLUTION DEGREE = 2 OR 3:
   -CAVITIES 1 TO 4 OR 3 TO 6 = 10.36
   -CAVITIES 1 TO 3 OR 4 TO 6 = 16.84
   -CAVITIES 1 TO 6 OR 4 TO 3 = 19.09

PART NO	REV	N/P	TYPE	HEADER CONNECTOR	PLR	BUSHING	SEAL	REPLACED BY
33229378	01	AA	103	15526842	13833742	33211751	13885872	-
33229377	01	AA	102	13885859	13833742	33211751	13885872	-
33229376	01	AA	101	13833745	13833742	33211751	13885872	-
15543396	01	AD	103	15526842	13833742	13824967	13885872	33229378
13879039	01	AG	102	13885859	13833742	13824967	13885872	33229377
13879038	01	AJ	101	13833745	13833742	13824967	13885872	33229376

(14) PROCESS SENSITIVE DIMENSION
DIMENSIONS ENCLOSED IN ( ) INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED

DIMENSIONAL RANGE (MM) 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° (CHART EI)

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
WARREN, OH

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		DATE
DR		
APVD1	T. ILER	09MY11
APVD2	T. ILER	09MY11
APVD3	T. GEORGE	09MY11
APVD4		
APVD5		

SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER DELPHI 10949001

MATERIAL: SEE CHART

DRAWING NAME: TAXI ASM CONN 6 M HES 1.0 2.4 SLD MODULAR

DRAWING NUMBER						
13885884						
SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1x3	4:1	1 OF 2	1 OF 1	R	14	-

13885884