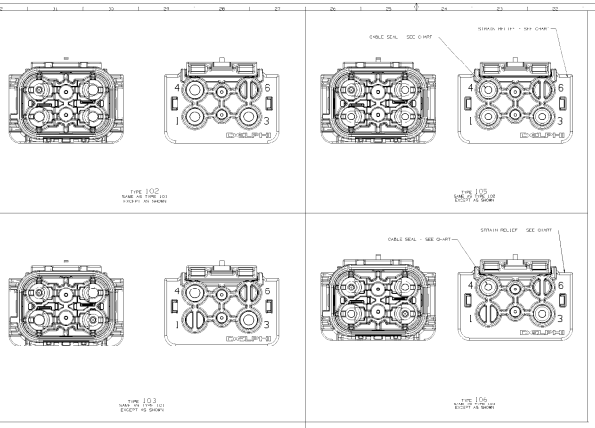
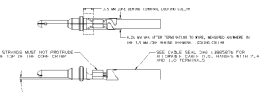
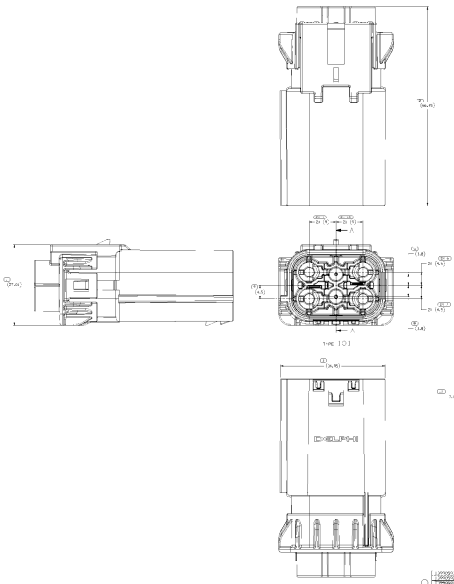


2.4 & 1.0 TERMINAL & WIRE APPLICATION REQUIREMENTS



DELPHI PART NO. 2-1437290-2 WITH GOLD PLATED STERLING PCB TERMINAL (OPTIONS BY IDENTIFIED WITH GOLD PLATED STERLING FOR SIGNAL CIRCUITS).

1. 105A 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 LOW-MΩ CONNECTOR ELECTRICAL CRITERIA.
3. TERMINAL TEMPERATURES NEED TO BE MONITORED IN THE APPLICATION TO INSURE THE FOLLOWING:
 - TERMINAL TEMPERATURE RISE OVER AMBIENT IS LIMITED AT MAXIMUM CONTINUOUS CURRENT.
 - TERMINAL TEMPERATURES (AMBIENT + TEMP. RISE) LIMITED AT MAXIMUM OPERATING TEMPERATURE.
4. ELECTRICAL PERFORMANCE REQUIREMENTS INCLUDE WIRE TO TERMINAL INTERFACE RESISTANCE LESS THAN 2 MILLIOHMS. SEALED CAVITIES ARE RECOMMENDED.



PART NO.	PCB CONNECTOR	PLR	TERMINAL	CABLE SEAL	CAVITIES	MATING CONN. ASM	REPLACES
12010243	12 WAY	1	1810743	1355003	1-2 A	12010241	12010245
12010244	12 WAY	1	1810743	1355003	1-2 A	12010242	12010246
12010245	12 WAY	1	1810743	1355003	1-2 A	12010241	12010243
12010246	12 WAY	1	1810743	1355003	1-2 A	12010242	12010244
12010247	12 WAY	1	1810743	1355003	1-2 A	12010241	12010243
12010248	12 WAY	1	1810743	1355003	1-2 A	12010242	12010244

NOTES

1. UNLESS OTHERWISE SPECIFIED #10-09 INDICATED
 - DIMENSIONS ARE TO FACE OF VIEW SHOWN AND INTERFACES, INCLUDING ALL GEOMETRY IN CONNECTION (SEE WITH MODEL FOR PART AND DIMENSIONS). FOR ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994. FOR ALL SURFACES, SEE PATH MODEL "FOR UNDERCAR TOOL PATH ENTRY.
2. THIS PRODUCT IS LOT CATEGORIZED AS AN APPROVED TOOL WITHIN THE CONNECTION SYSTEM. SEE PATH MODEL "FOR UNDERCAR TOOL PATH ENTRY. APPROVED TOOL LOT CODE = 1 TOOL NOT LOT CODED = ALL OTHER
3. CONNECTOR ASSEMBLIES ARE CALCULATED TO SAE J2839-AT REV.01 - 105A CONTINUOUS CURRENT (1) WITH 2.4 SEALED CABLE SEAL TERMINATION CLASS 1 AND 105A CONTINUOUS CURRENT (1) WITH 1.0 SEALED CABLE SEAL TERMINATION CLASS 1.
4. CONNECTOR ASSEMBLY TORQUE FOR 1.0 AND 2.4 SEALED SAE-USCAR-25 REV.3 - ADDITION FEEDBACK TORQUE 0.5 - 1.0 NEWTON OF THE SAT.
5. HARNESS MANUFACTURER IS RESPONSIBLE FOR THE CONNECTION SYSTEM PERFORMANCE AS DEFINED IN THE CONNECTION SYSTEM SPECIFICATION SAE J2839-AT REV.01 AND SAE J2839-AT REV.01 - ADDITION FEEDBACK FOR CLASS 1 SEALED CONNECTOR SYSTEM REQUIREMENTS. THE CONNECTION SYSTEM IS TESTED WHEN ON MATING WITH THE SPECIFIC TYPE AND DIAMETER OF CABLE IN THE CLAMP CAVITIES (1, 3, 4, AND 5).
6. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
7. SEALING IDENTIFICATION AND MARKING REQUIRED PER GS-1-700.

REVISIONS					
ZONE	REVISION LETTER	ECN	DESCRIPTION	APP'D	DATE
ENGINEERING RELEASE	A		INITIAL RELEASE		2010/03/31
SHEET 2	B		ADD "RELIEF VERTICAL"		2010/04/01
SHEET 3	C		ADD "CABLE" TO BRACKET		2010/04/01
SHEET 4	D		ADD "CABLE" TO BRACKET		2010/04/01
SHEET 5	E		ADD "CABLE" TO BRACKET		2010/04/01
SHEET 6	F		ADD "CABLE" TO BRACKET		2010/04/01
SHEET 7	G		ADD "CABLE" TO BRACKET		2010/04/01

DELPHI

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH PER
INTERPRET GEOMETRIC AND TRUE POSITION TOLERANCING PER ASME Y14.5M-1994
MATERIAL
FINISH
DRAFT ANGLES
NOTCH SENSITIVITY APPLIES TO ALL RADII
BREAK ALL SHARP EDGES
REMOVE ALL BURRS AND FLASH
INTERPRET PER ISO 8015 AND ISO 14405
DO NOT SCALE DRAWING

APP	DATE	
DRAWN	2010/03/31	
CHK'D	2010/03/31	
ENGR APP	2010/03/31	
MFG APP		
QUAL APP		

DELPHI ELECTRICAL SYSTEMS
PACKARD ELECTRIC SYSTEMS
WARREN, OHIO

TITLE: 105A 2.4 SEAL 1.0 SEAL
12 CAV KEY-LOCK AT

DRAWING NUMBER: 13990595

SIZE: B | SCALE: 1/1 | WEIGHT: | SHEET 1 OF 7

REVISION: A

13990595

13990262