

THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO TYCO ELECTRONICS CORPORATION AND ITS WORLDWIDE SUBSIDIARIES AND AFFILIATES (TE). IT MAY NOT BE DISCLOSED TO ANYONE OTHER THAN TE PERSONNEL, WITHOUT AUTHORIZATION FROM TE (www.te.com).

DRAWING NUMBER:
612847-ENV

NOTES:

1. MARKED WITH TE PART NUMBER, TE (HASTINGS) CAGE CODE, DATE CODE AND REAR CONTACT LOCATION MARKING WHERE SHOWN. SEE SHEET 2 FOR TEXT AND POSITIONS.

PART NUMBER EXAMPLE: D369 - MB 9 9 - N S 1

BASIC PART No. _____
SHELL STYLE _____
(MB = INLINE METALLIZED PANEL MOUNT RECEPTACLE, 1.60mm PANEL)
SHELL SIZE _____
CONTACT QTY _____
(9 = 9x #22's, 6 = 6x #22's, 3 = 3x #22's)

CONTACT CONFIGURATION 4.
CONTACT TYPE (P = PIN, S = SKT)
SHELL KEYING

2. PERFORMANCE:

TEMPERATURE RANGE	-55°C TO +175°C
DIELECTRIC WITHSTAND VOLTAGE (AT SEA LEVEL)	1300VRMS <2mA LEAKAGE
DURABILITY	500 MATING CYCLES MIN.
INSULATION RESISTANCE	≥5000 MΩ INITIAL
IP RATING	IP65
SEALING	RTCA DO160 - CATEGORY A4 (15,000ft)
HUMIDITY	RTCA DO160 - CATEGORY A

3. INSERTION/EXTRACTION TOOL (M81969/14-01 OR EQUIVALENT) SUPPLIED SEPARATELY.

4	Contact Configuration	Contact Description	Contact P/N (OR EQUIVALENT)		Crimp Positioner		Crimp Tool	Wire Accommodation	Current Rating
			Pin	Socket	Pin	Socket			
	0	NO CONTACTS SUPPLIED							
	1	CRIMP, COPPER WIRE	38941-22L	38946-22L	M22520/2-09	M22520/2-06	M22520/2-01	22-26 AWG	5A (22 AWG)
	2	CRIMP, ALUMINIUM WIRE	200-1042-22	200-1142-22	KAL2		ALNP 22-A	22 AWG	5A
	3	CRIMP, COPPER WIRE (ENLARGED WIRE)	182-0860-22	182-0862-22	M22520/2-09	M22520/2-06	M22520/2-01	20-24 AWG	7.5A (20 AWG)**

** UPPER TEMPERATURE LIMIT DE-RATED TO +133°C AT 7.5A (20 AWG)

5. MATERIALS & FINISHES:

COMPONENT	MATERIAL	FINISH
SEALS	SILICONE/ FLUROSILICONE BLEND	N/A
INSERT PARTS/ PANEL CLIP	THERMOPLASTIC	N/A
SHELL BODY	THERMOPLASTIC	ELECTROLESS NICKEL PLATED
PANEL GASKET	FLUROSILICONE - ALUMINIUM	N/A
CONTACTS	COPPER ALLOY	GOLD PLATED

NICKEL PLATED FINISH MAY VARY IN COSMETIC APPEARANCE. PLATING MAY BE DULL IN APPEARANCE WITH A ROUGH SURFACE, OR SHINY IN APPEARANCE WITH A SMOOTH SURFACE. THIS IN NO WAY AFFECTS THE FORM, FIT OR FUNCTION OF THE PRODUCT, OR THE ENVIRONMENTAL PERFORMANCE OF THE PLATED FINISH. IT SHOULD BE CONSIDERED A VISUAL VARIATION ONLY.

6. MAXIMUM WEIGHT (WITHOUT CONTACTS): 3.5g (PIN INSERT), 3.4 (SKT INSERT).

7. EMI SHIELDING PERFORMANCE (MATED PAIR):

FREQUENCY (MHz)	150	200	300	400	800	1000	1500	2000	3000	4000	6000	10000
ATTENUATION (dB)	65	60	55	55	45	43	40	37	35	33	30	20

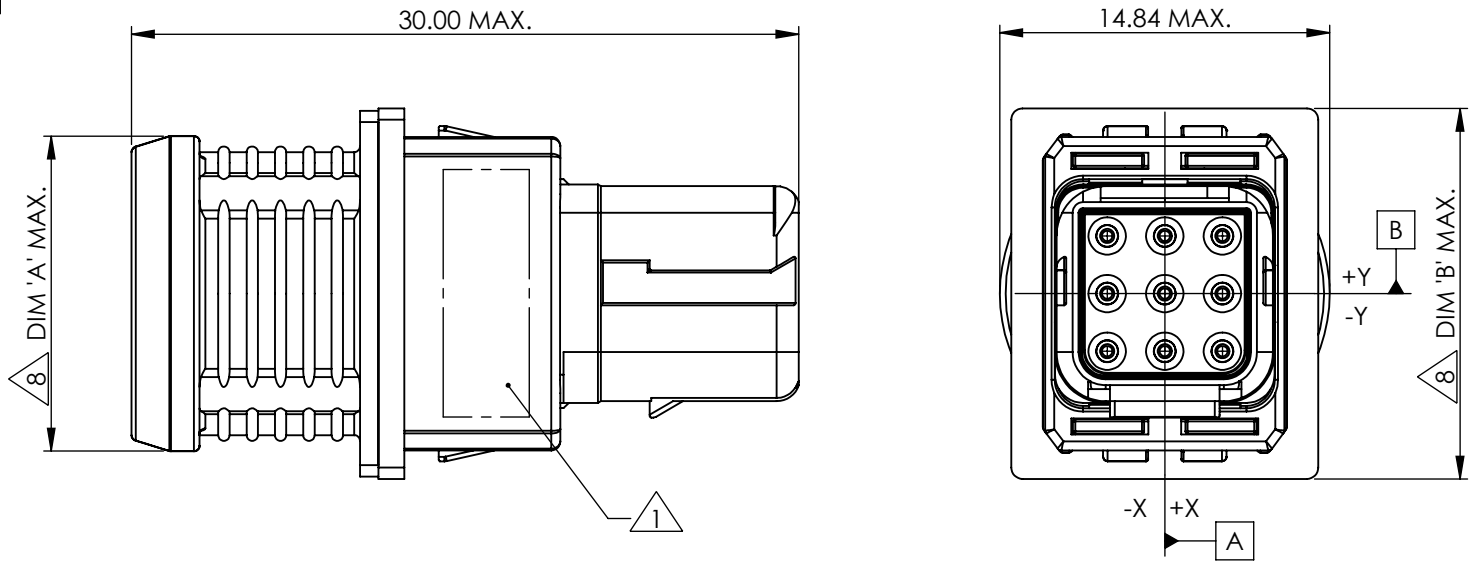
8. DIMENSIONS:

PART NUMBER	DIM 'A'	DIM 'B'
D369-MB33-***	9.33	11.34
D369-MB66-***	11.75	13.88
D369-MB99-***	14.18	16.42

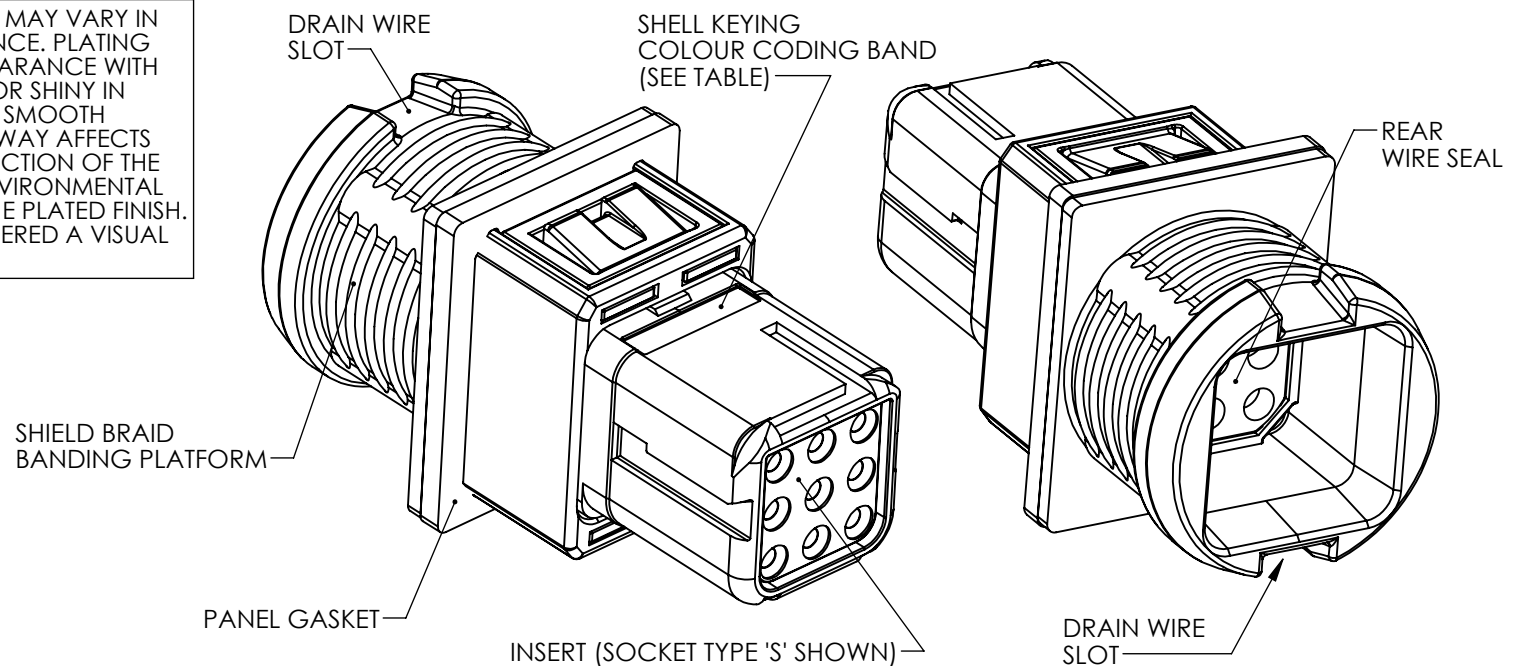
9. DIMENSIONS ARE TRUE POSITIONS OF CAVITIES AT FRONT OF SOCKET INSERT (PIN OPPOSITE). CENTRE OF EACH CAVITY Φ 0.20 A B

SHELL KEYING	
ORIENTATION	COLOUR CODING BAND
N	BLACK
A	DARK RED
B	DARK BLUE
C	DARK GREEN
D	YELLOW

AB	DUK-76132	JCB	JLM	RJM	CEO	04/03/2024
ISSUE	CHANGE NOTE	DRAWN	CHECKED	APP. ENG.	APP. MARKETING	DATE



9. COORDINATE POSITIONS OF CONTACTS						
CONTACT POSITION (ID)	D369-MB33-***		D369-MB66-***		D369-MB99-***	
	X AXIS (mm)	Y AXIS (mm)	X AXIS (mm)	Y AXIS (mm)	X AXIS (mm)	Y AXIS (mm)
1	2.54	0	2.54	1.27	2.54	2.54
2	0	0	0	1.27	0	2.54
3	-2.54	0	-2.54	1.27	-2.54	2.54
4	-	-	-2.54	-1.27	-2.54	0
5	-	-	0	-1.27	0	0
6	-	-	2.54	-1.27	2.54	0
7	-	-	-	-	2.54	-2.54
8	-	-	-	-	0	-2.54
9	-	-	-	-	-2.54	-2.54



BS8888 THIRD ANGLE PROJECTION 		MATERIAL: SEE NOTE 5		FINISH: SEE NOTE 5		 DEUTSCH TE CONNECTIVITY UK LTD., ST. LEONARDS-ON-SEA, TN38 9RF, UK.	
UNLESS OTHERWISE STATED: DIMENSIONS: mm [INCHES]		TITLE: D369 SHIELDED PANEL MOUNT RECEPTACLE - ENVELOPE TYPE: Customer Drawing					
IF IN DOUBT, ASK		SIZE: A3	SCALE: 3:1	DRAWING NUMBER: 612847-ENV		SHEET: 1 OF 2	ISSUE: AB

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DRAWING NUMBER:
612847-ENV

B

C

D

E

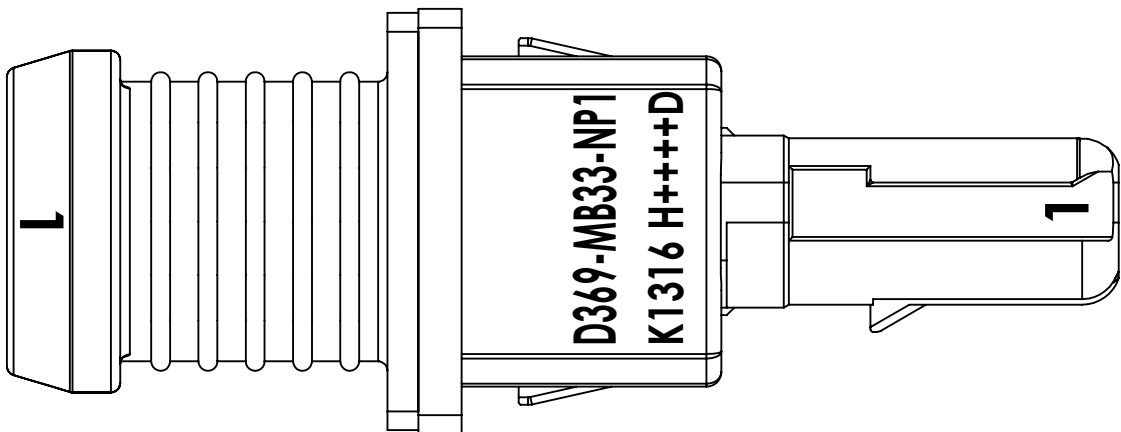
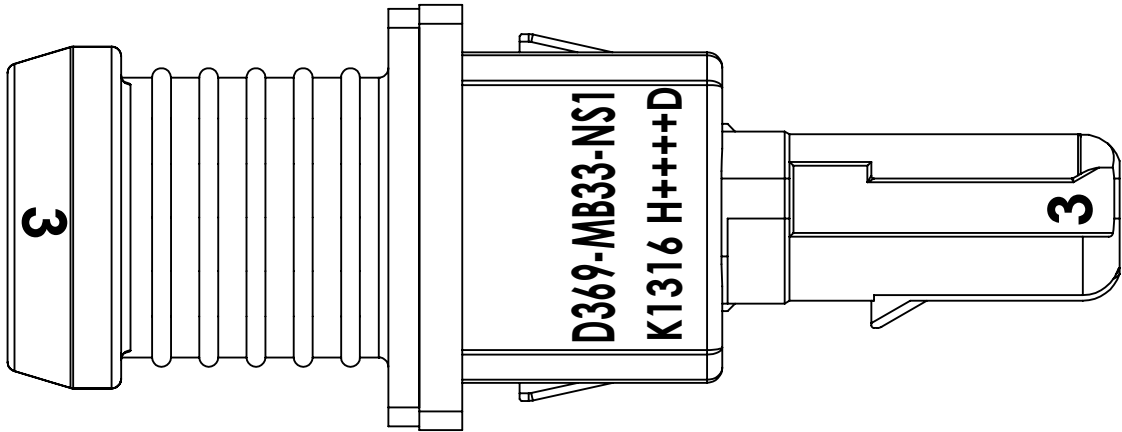
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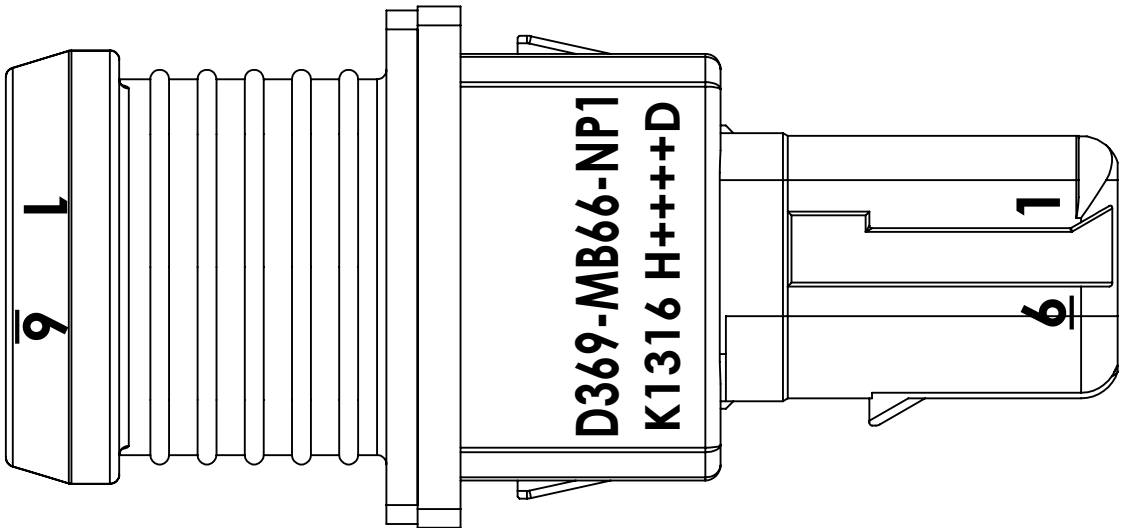
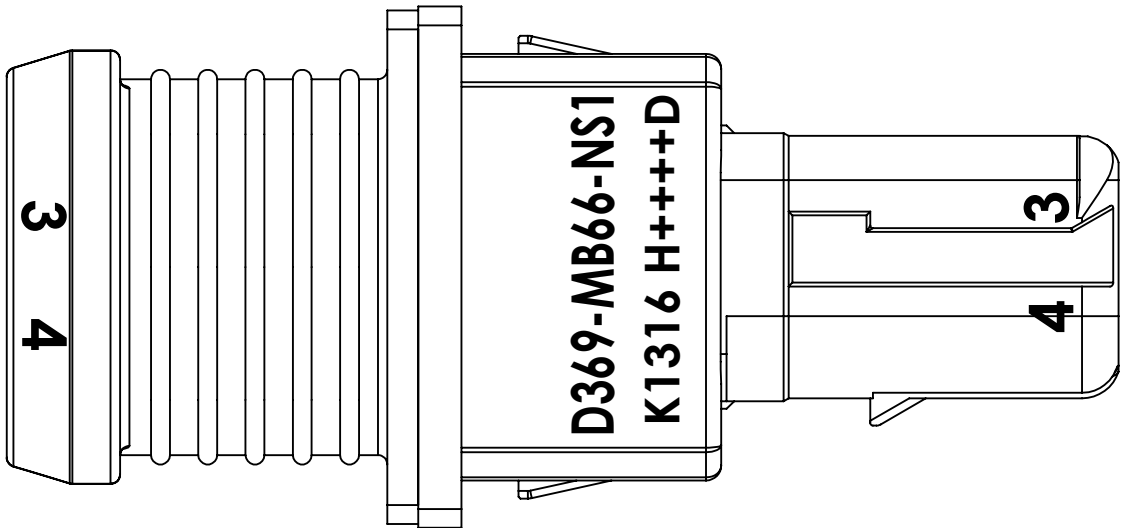
SOCKET/FEMALE CONTACTS

PIN/MALE CONTACTS

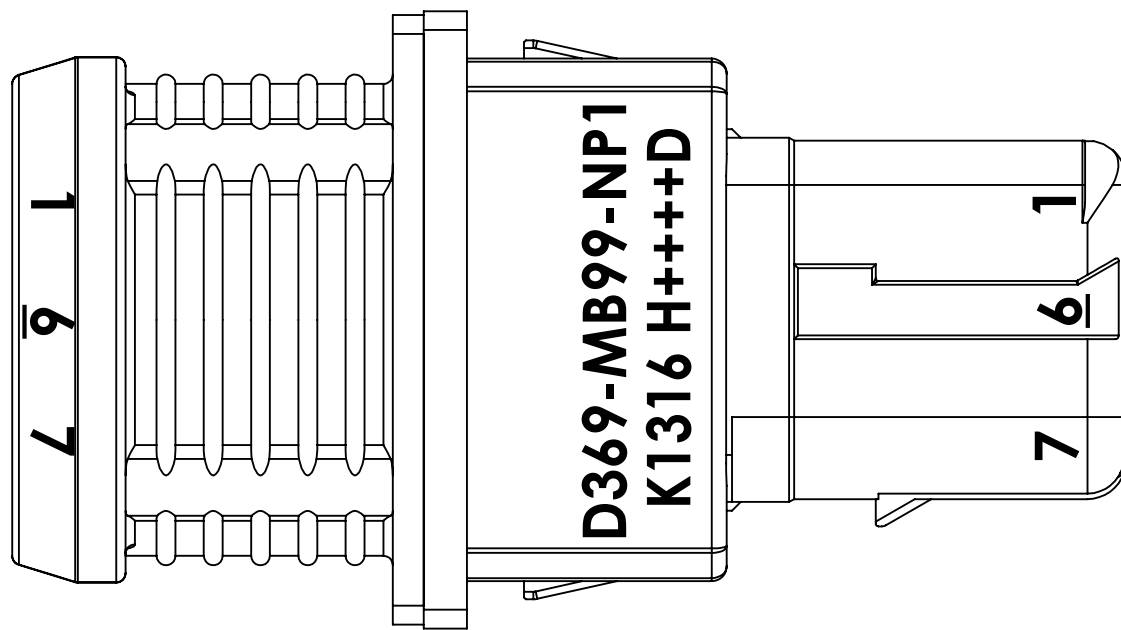
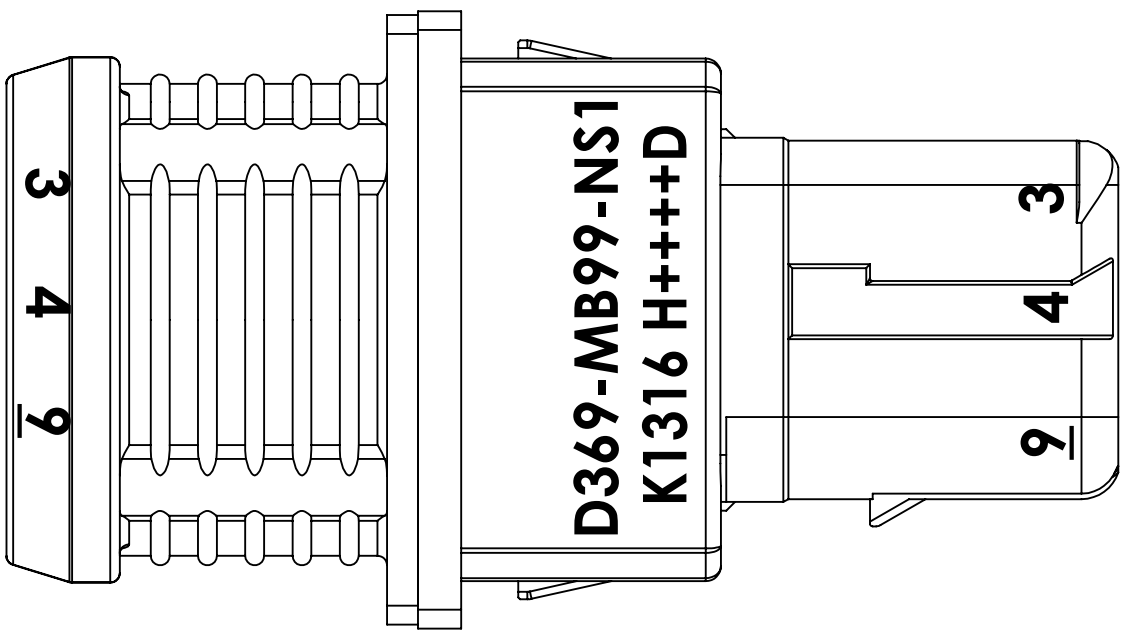
3 WAY



6 WAY



9 WAY



1 PART MARKING AND CAVITY ID DETAIL

THE CONNECTOR DESCRIBED
ON THIS DRAWING SHALL
MEET THE QUALIFICATION
REQUIREMENTS AS OUTLINED
IN TE QTP 109-163002

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UNLESS OTHERWISE STATED: DIMENSIONS: mm [INCHES]		TITLE: D369 SHIELDED PANEL MOUNT RECEPTACLE - ENVELOPE		TYPE: Customer Drawing			
IF IN DOUBT, ASK		SIZE: A3	SCALE: 5:1	DRAWING NUMBER: 612847-ENV		SHEET: 2 OF 2	ISSUE: AB

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C

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E

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