

DESIGNED & DIMENSIONED
IN MILLIMETERS [INCHES]

* = NOT RELEASED FOR PRODUCTION

ACP-22-XX-X-XX.XX-X-XX-O-X

DO NOT
SCALE FROM
THIS PRINT

Pb THIS PRODUCT MANUFACTURED
WITH LEAD-FREE PROCESSING

KEYING FEATURE
(SEE NOTE 4) (SEE SHEET 4)
-1: ORANGE
-2: GREEN
-3: BLUE
-4: YELLOW

LEAD STYLE
-01: 30 POS (1.0 TERM/SKT), 24 AWG
-02: 20 POS (1.0 TERM/SKT), 24 AWG
-03: 8 POS PWR (1.5 TERM/SKT), 16 AWG
* -04: 6 POS (COAX PLUG/JACK), COAX
-05: 20 POS COMBO
(4 X 1.5 TERM/SKT), 16 AWG
(16 X 1.0 TERM/SKT), 24 AWG
* -06: 16 POS COMBO
(4 X COAX PLUG/JACK), COAX
(12 X 1.0 TERM/SKT), 24 AWG

OVERMOLDED PLASTIC

END 2
-T: TERMINAL
-S: SOCKET
-BC: BLUNT CUT

END 1
-T: TERMINAL
-S: SOCKET (NOT AVAILABLE
WITH END 2 -T)

PLATING
(SEE NOTE 11)
-G: 10µ" GOLD IN
CONTACT AREA
-H: 30µ" GOLD IN
CONTACT AREA

ASSEMBLED LENGTH
XX.XX (IN METERS)
(0.25 METER MIN TO 50.00 METER MAX)

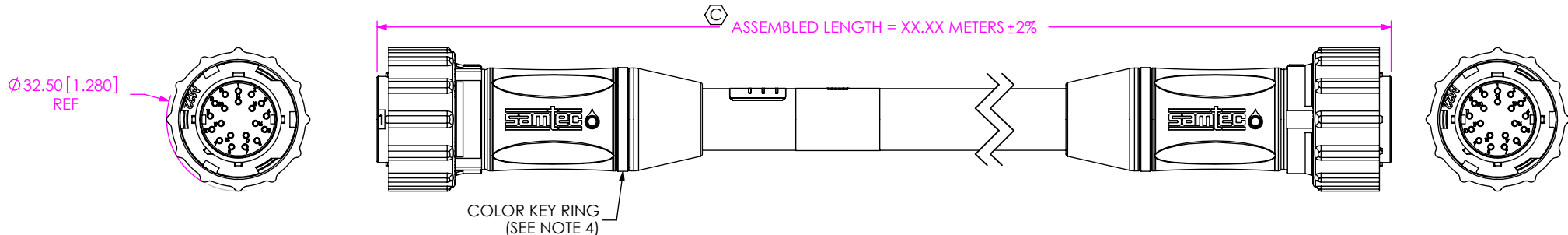
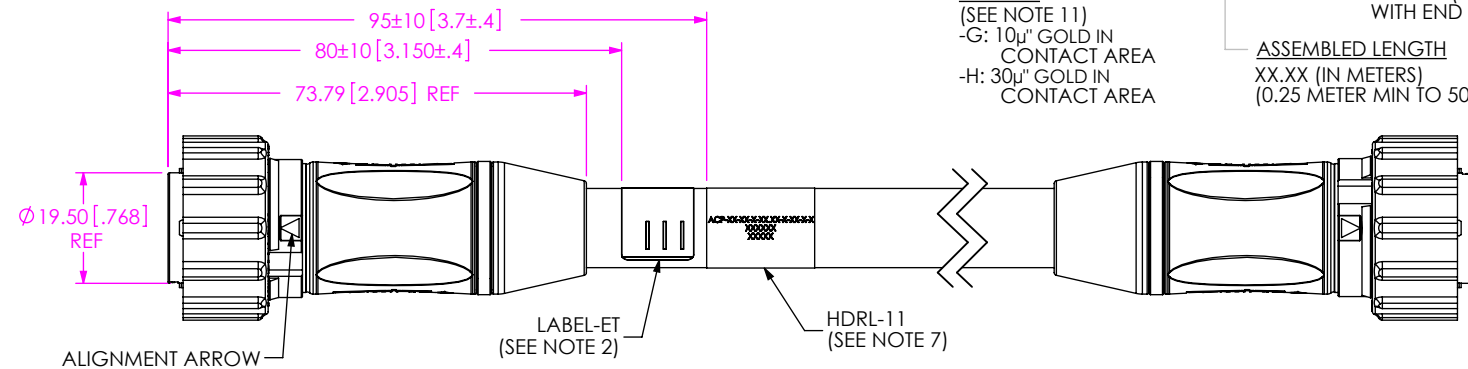

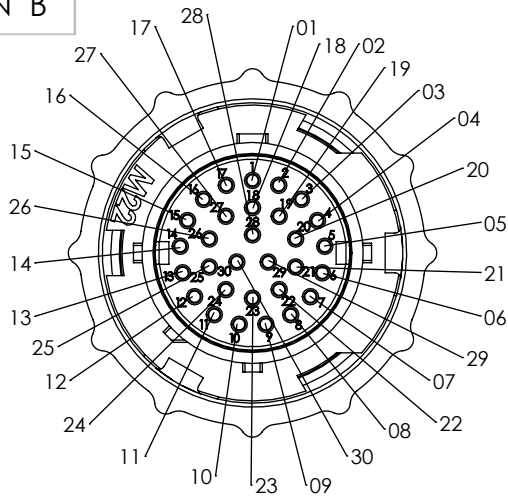


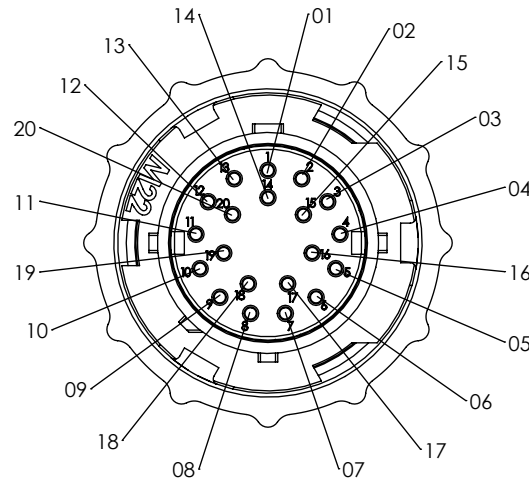
FIG 1
ACP-22-02-X-XX.XX-T-T-O-1 SHOWN

- NOTES:
1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
 2. ASSEMBLY TO BE 100% TESTED FOR CONTINUITY, ISOLATION, & HI-POT AT 300V. (1) LABEL-ET TO BE APPLIED AFTER FINAL ELECTRICAL TEST.
 3. ASSEMBLIES TO BE BULK PACKAGED.
 4. KEYING FEATURE DETERMINES COLOR OF KEY RING AND DUSTCAP LANYARD IF APPLICABLE.
 5. SIGNAL MAPPING IS 1 TO 1, 2 TO 2, 3 TO 3, etc..
 6. REFER TO DCA-ACP-22-P-X PRINT FOR DUST CAP.
 7. PLACE HDRL-11 (LABEL) ON CABLE WHERE SHOWN. LABEL TO CONTAIN:
LINE 1 - PART NUMBER "ACP-22-XX-X-XX.XX-X-XX-O-X"
LINE 2 - SHOP ORDER NUMBER "XXXXXX"
LINE 3 - DATE CODE "XXXXX"
 8. ASSEMBLY TO BE 100% TESTED FOR CONTINUITY, ISOLATION, & HI-POT AT 300V BEFORE OVERMOLDING.
 9. ORIENTATION OF END 1 AND END 2 MAY VARY.
 10. PARTS TO BE BUILT AND INSPECTED TO IPC-A-620 CLASS 2.
 11. PLATING CALLOUTS APPLY TO TERMINALS/SOCKETS ONLY. COAX PLUGS/JACKS HAVE -H PLATING ON INNER TERMINALS/SOCKETS & -F PLATING ON OUTER SHELLS.
 12. MINIMUM BEND RADIUS FOR INDIVIDUAL LINES OF COAX CABLE IS 25.4 [1.00].

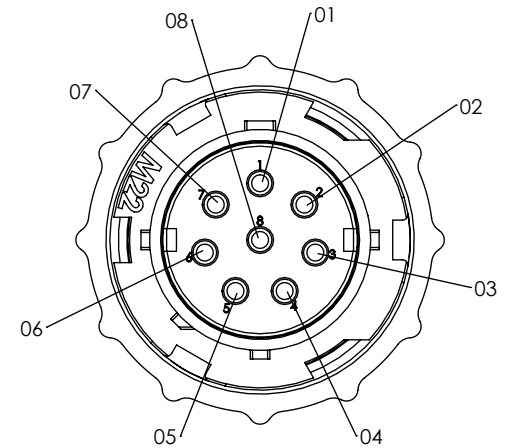
<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.</p> <p>TOLERANCES ARE:</p> <table border="0"> <tr> <td>DECIMALS</td> <td>ANGLES</td> </tr> <tr> <td>X.X: ±0.3 [01]</td> <td>2°</td> </tr> <tr> <td>X.XX: ±0.13 [005]</td> <td></td> </tr> <tr> <td>X.XXX: ±0.051 [0020]</td> <td></td> </tr> </table>	DECIMALS	ANGLES	X.X: ±0.3 [01]	2°	X.XX: ±0.13 [005]		X.XXX: ±0.051 [0020]		<p>PROPRIETARY NOTE</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.</p>	 <p>520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com code 53322</p>
DECIMALS	ANGLES									
X.X: ±0.3 [01]	2°									
X.XX: ±0.13 [005]										
X.XXX: ±0.051 [0020]										
<p>MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:4</p> <p>SHELL: NYLON COLOR: BLACK INSULATOR: PBT, COLOR: BLACK OVERMOLD: MD-NYL-ZY-70G13-BK PREMOLD: MD-NYL-MA-OM646-BK TERMINALS: BRASS CONTACTS: BRASS/BeCu BAYONET COLLAR: NYLON, COLOR: BLACK COLOR RING: SILICONE</p>	<p>DESCRIPTION: ACCLIMATE CIRC. CABLE ASSEMBLY</p> <p>DWG. NO. ACP-22-XX-X-XX.XX-X-XX-O-X</p> <p>BY: CLAY W 9/8/2010 SHEET 1 OF 7</p>									



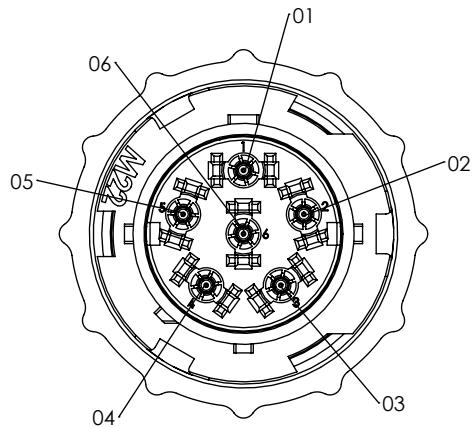
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(1.0 TERMINALS)



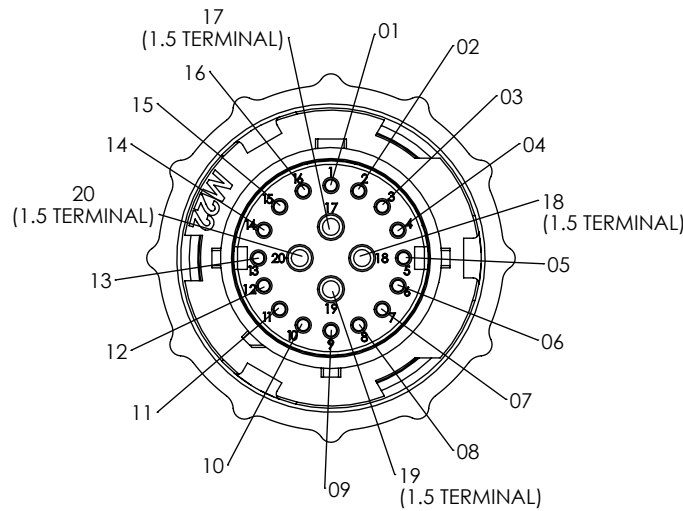
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(1.0 TERMINALS)



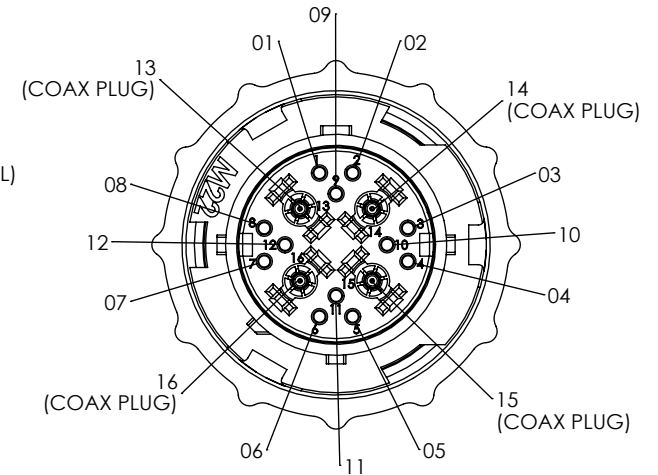
-03: 8 POS
(1.5 TERMINALS)



-04: 6 POS
(6 X COAX PLUGS)
NOT RELEASE FOR PRODUCTION



-05: 20 POS COMBO
(4 X 1.5 TERMINALS)
(16 X 1.0 TERMINALS)



-06: 16 POS COMBO
(4 X COAX PLUGS)
(12 X 1.0 TERMINALS)
NOT RELEASED FOR PRODUCTION

-T END OPTIONS

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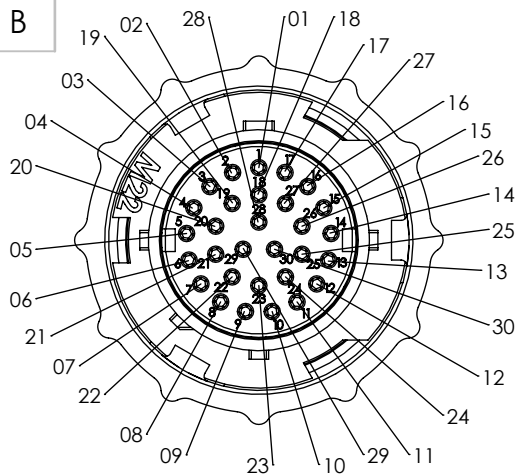


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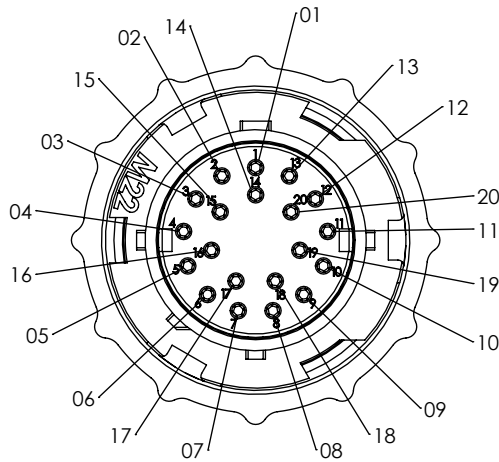
DESCRIPTION: ACCLIMATE CIRC. CABLE ASSEMBLY

DWG. NO. ACP-22-XX-X-XX-XX-X-XX-O-X

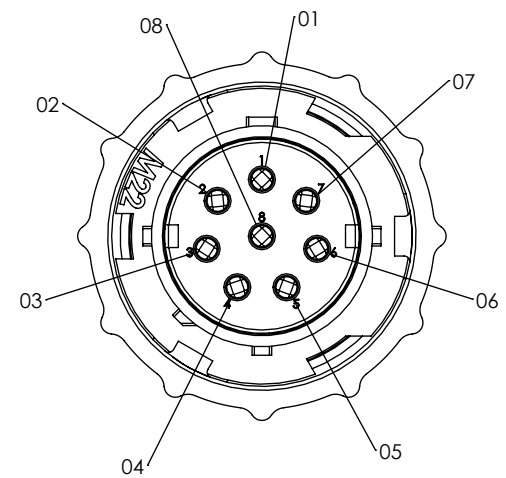
BY: CLAY W 9/8/2010 SHEET 2 OF 7



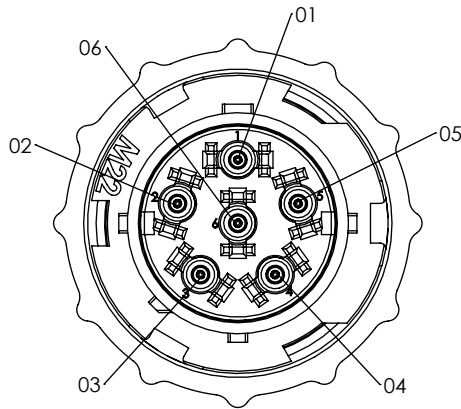
-01: 30 POS
(1.0 SOCKETS)



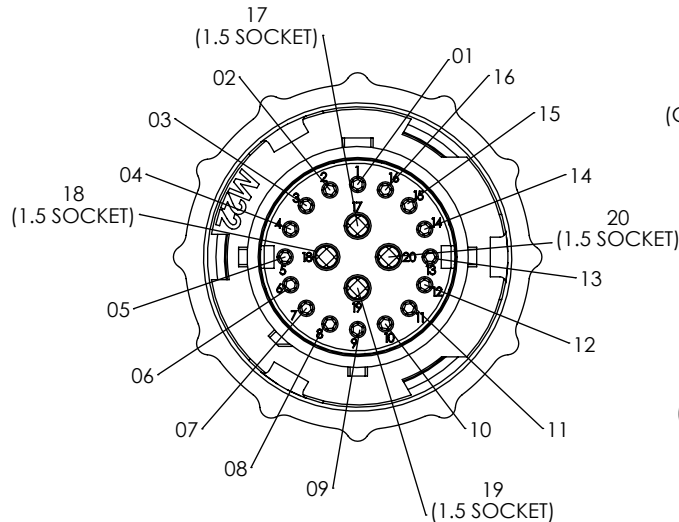
-02: 20 POS
(1.0 SOCKETS)



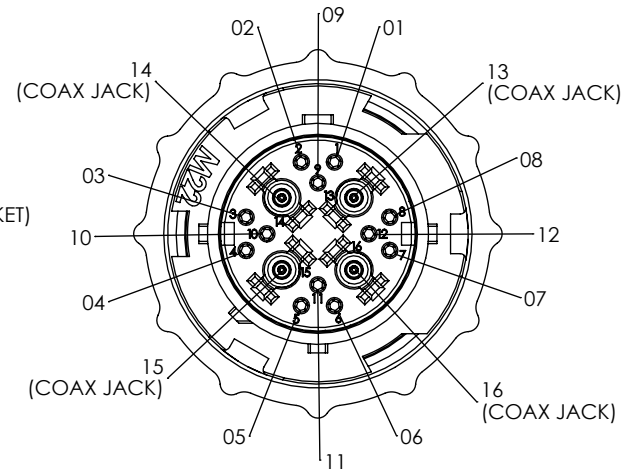
-03: 8 POS
(1.5 SOCKETS)



-04: 6 POS
(6 X COAX JACKS)
NOTE RELEASED FOR PRODUCTION



-05: 20 POS COMBO
(4 X 1.5 SOCKETS)
(16 X 1.0 SOCKETS)



-06: 16 POS COMBO
(4 X COAX JACKS)
(12 X 1.0 SOCKETS)
NOT RELEASED FOR PRODUCTION

-S END OPTIONS

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SHEET SCALE: 3:2

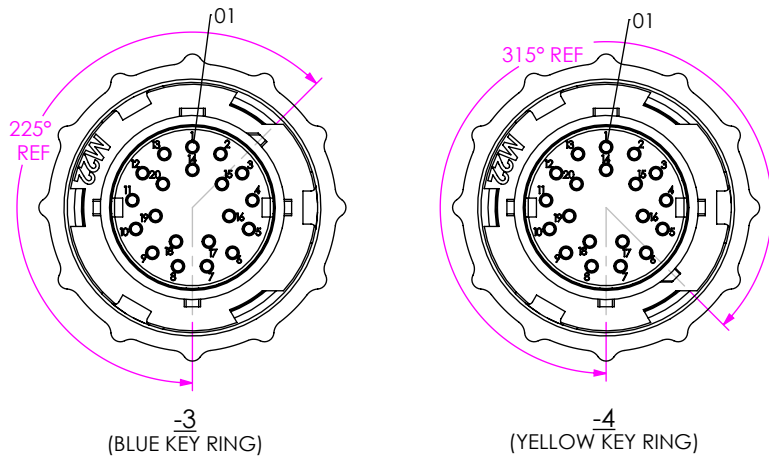
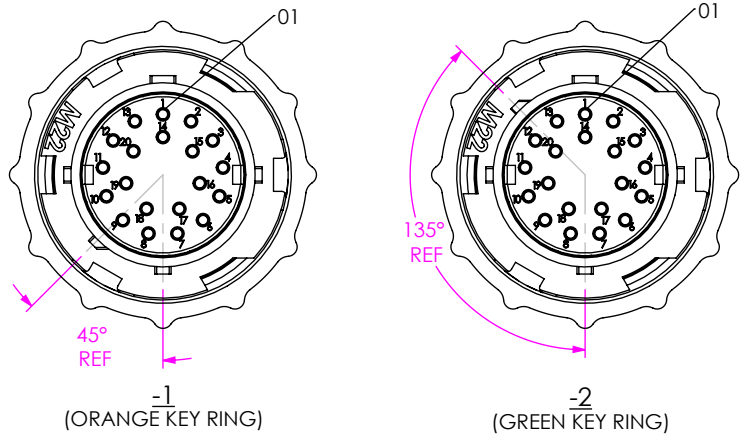
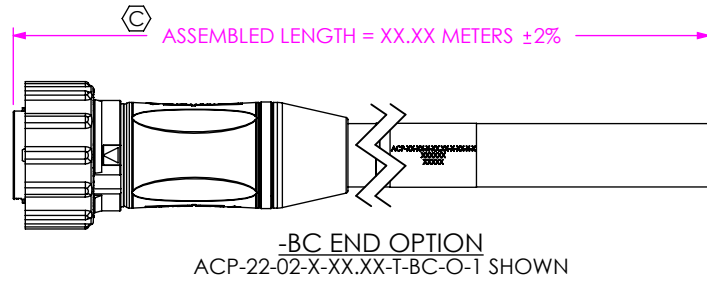


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e-Mail info@SAMTEC.com code 55322

DESCRIPTION: ACCLIMATE CIRC. CABLE ASSEMBLY

DWG. NO. **ACP-22-XX-X-XX.XX-X-XX-O-X**

BY: CLAY W 9/8/2010 SHEET 3 OF 7



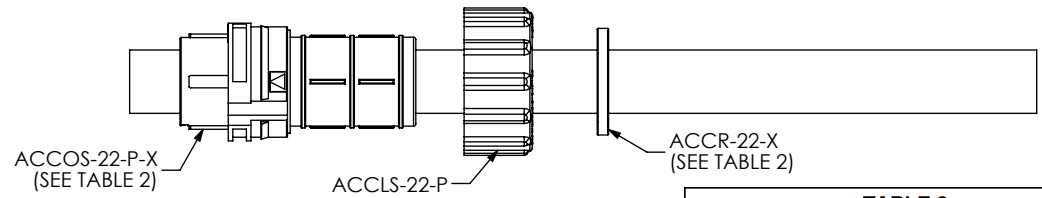
KEYING FEATURE
(SEE NOTE 4)

⊕ CABLE LENGTH (WIRE ONLY) = (XX.XX METERS - 0.03 METERS) ±2%
 CABLE LENGTH (CONTAINING COAX) = (XX.XX METERS - 0.02 METERS) ± 2%
 -BC CABLE LENGTH (WIRE ONLY) = ((XX.XX METERS X 2) + 0.02 METERS) ± 2%
 -BC CABLE LENGTH (CONTAINING COAX) = ((XX.XX METERS X 2) + 0.03 METERS) ± 2%



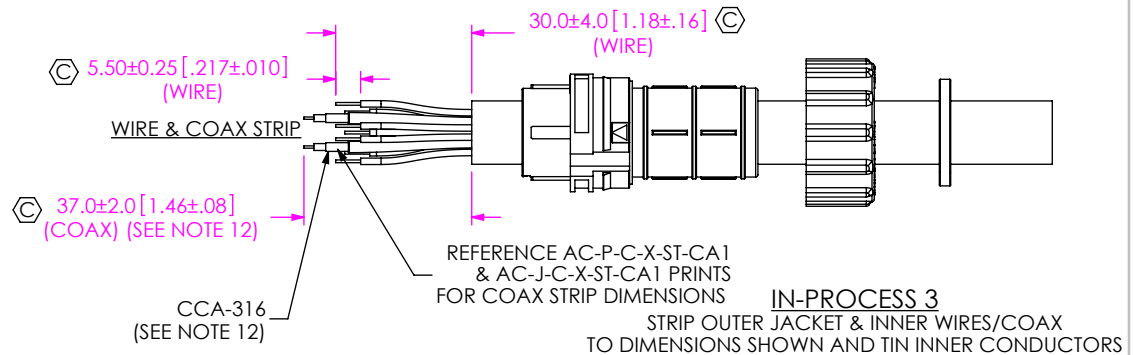
TABLE 1	
LEAD STYLES	SBWC PART #
-01	SBWC-22-01-O
-02	SBWC-22-02-O
-03	SBWC-22-03-O
-04	SBWC-22-04-O
-05	SBWC-22-05-O
-06	SBWC-22-06-O

IN-PROCESS 1
CUT SBWC-22-XX-O TO LENGTH



IN-PROCESS 2
FEED SBWC-22-XX-O BUNDLED CABLE THROUGH
ACCR-22-X, ACCLS-22-P, & ACCOS-22-P-X

TABLE 2		
KEYING FEATURE	SHELL PART #	ACCR-22-X
-1	ACCOS-22-P-1	ACCR-22-1
-2	ACCOS-22-P-2	ACCR-22-2
-3	ACCOS-22-P-3	ACCR-22-3
-4	ACCOS-22-P-4	ACCR-22-4



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 SHEET SCALE: 6:10



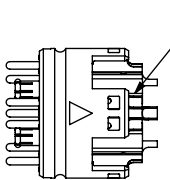
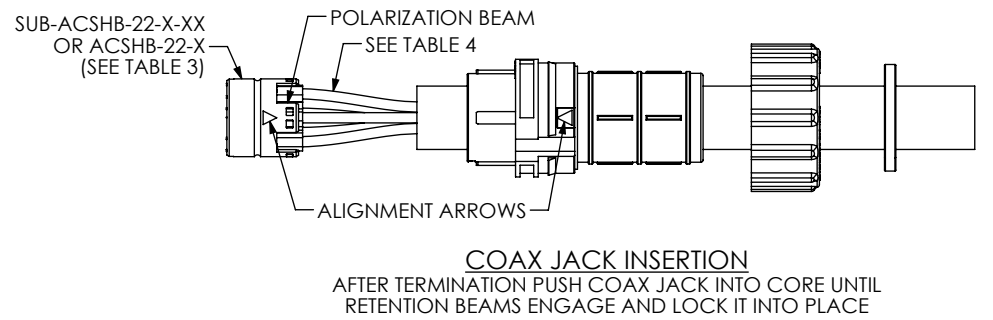
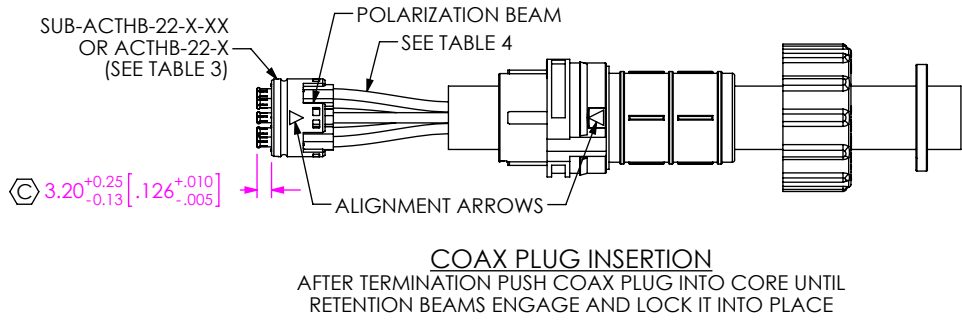
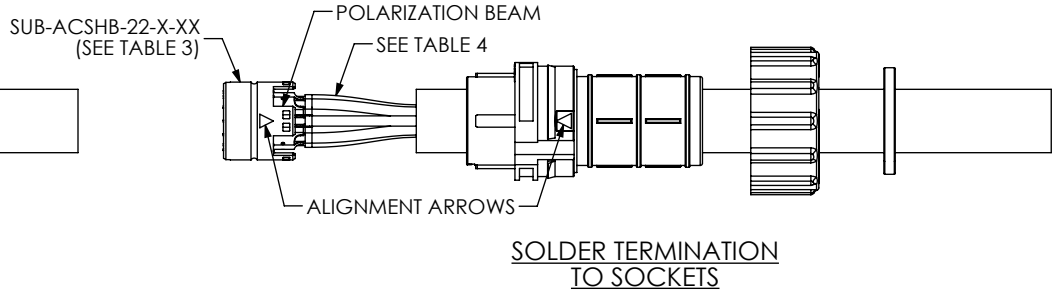
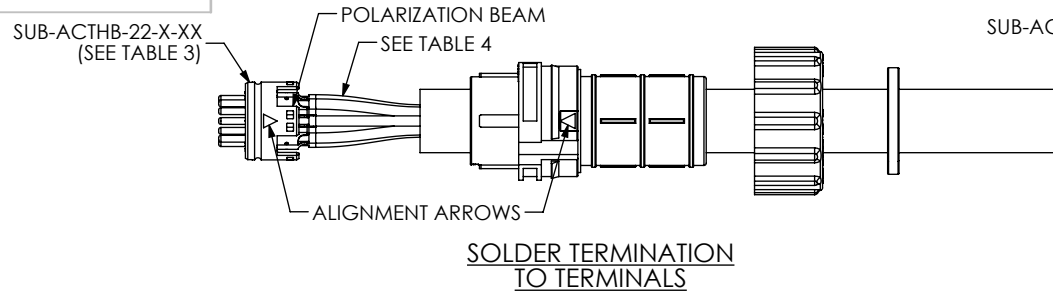
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DESCRIPTION:
ACCLIMATE CIRC. CABLE ASSEMBLY

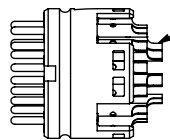
DWG. NO.
ACP-22-XX-X-XX.XX-X-XX-O-X

BY: CLAY W 9/8/2010 SHEET 4 OF 7

REVISION B



ON LEAD STYLE -06 TERMINATE & INSERT COAX PLUGS/JACKS BEFORE SOLDERING REMAINING WIRES



ON LEADSTYLES -01, -02, -03 & -05. SOLDER INNER RING OF TERMINALS/SOCKETS FIRST AND THEN OUTER RING

IN-PROCESS 4
TERMINATE WIRES/COAX TO TERMINALS/SOCKETS
(SEE AC-J-C-X-ST-CA1 & AC-P-C-X-ST-CA1
PRINTS FOR COAX TERMINATION)
(SEE NOTE 5 & 10)

POSITION	-01	-02	-03	-04	-05	-06
01	BROWN	BROWN	BROWN	COAX	BROWN	BROWN
02	RED	RED	RED	COAX	RED	RED
03	ORANGE	ORANGE	ORANGE	COAX	ORANGE	ORANGE
*04	YELLOW	YELLOW	YELLOW	COAX	YELLOW	YELLOW
05	GREEN	GREEN	GREEN	COAX	GREEN	GREEN
*06	DARK BLUE	DARK BLUE	DARK BLUE	COAX	DARK BLUE	DARK BLUE
07	VIOLET	VIOLET	VIOLET		VIOLET	VIOLET
08	GRAY	GRAY	GRAY		GRAY	GRAY
09	WHITE	WHITE	WHITE		WHITE	WHITE
10	BLACK	BLACK			BLACK	BLACK
11	GREEN / BLACK	GREEN / BLACK			GREEN / BLACK	GREEN / BLACK
12	TAN	TAN			TAN	TAN
13	DARK BLUE / YELLOW	DARK BLUE / YELLOW			DARK BLUE / YELLOW	COAX
14	PINK	PINK			PINK	COAX
15	BROWN / WHITE	BROWN / WHITE			BROWN / WHITE	COAX
16	RED / WHITE	RED / WHITE			RED / WHITE	COAX
17	ORANGE / WHITE	ORANGE / WHITE			ORANGE / WHITE	
18	YELLOW / WHITE	YELLOW / WHITE			YELLOW / WHITE	
19	GREEN / WHITE	GREEN / WHITE			GREEN / WHITE	
20	DARK BLUE / WHITE	DARK BLUE / WHITE	NA	NA	DARK BLUE / WHITE	
21	VIOLET / WHITE					
22	GRAY / WHITE					
23	WHITE / BLACK					NA
24	BLACK / WHITE					
25	GREEN / YELLOW	NA			NA	
26	TAN / WHITE					
27	DARK BLUE / PINK					
28	PINK / WHITE					
29	BROWN / BLACK					
30	RED / BLACK					

LEAD STYLES	END1/END 2	SUB-ASSEMBLY/HOLDER BODY PART #		COAX PLUG/JACK PART #	
		PLATING			QTY
		-G	-H	AC-X-C-H-ST-CA1	
-01	-T	SUB-ACHTB-22-G-01	SUB-ACHTB-22-H-01	NA	
-02	-T	SUB-ACHTB-22-G-02	SUB-ACHTB-22-H-02	NA	
-03	-T	SUB-ACHTB-22-G-03	SUB-ACHTB-22-H-03	NA	
*-04	-T	ACTHB-22-6	ACTHB-22-6	AC-P-C-H-ST-CA1	6
-05	-T	SUB-ACHTB-22-G-05	SUB-ACHTB-22-H-05	NA	
*-06	-T	SUB-ACHTB-22-G-06	SUB-ACHTB-22-H-06	AC-P-C-H-ST-CA1	4
-01	-S	SUB-ACSHB-22-G-01	SUB-ACSHB-22-H-01	NA	
-02	-S	SUB-ACSHB-22-G-02	SUB-ACSHB-22-H-02	NA	
-03	-S	SUB-ACSHB-22-G-03	SUB-ACSHB-22-H-03	NA	
*-04	-S	ACSHB-22-6	ACSHB-22-6	AC-J-C-H-ST-CA1	6
-05	-S	SUB-ACSHB-22-G-05	SUB-ACSHB-22-H-05	NA	
*-06	-S	SUB-ACSHB-22-G-06	SUB-ACSHB-22-H-06	AC-J-C-H-ST-CA1	4

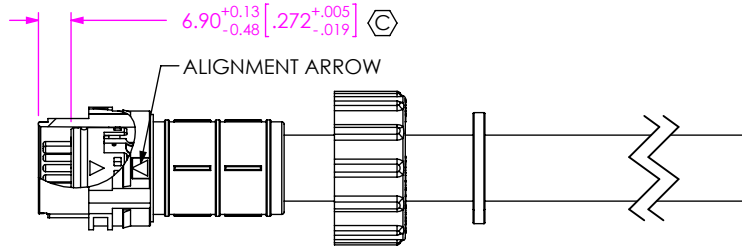
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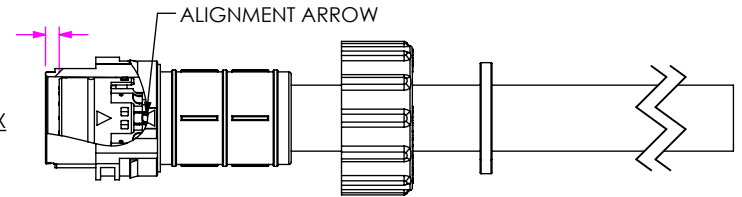
DO NOT SCALE DRAWING
SHEET SCALE: 6:10

DESCRIPTION:
ACCLIMATE CIRC. CABLE ASSEMBLY
DWG. NO.
ACP-22-XX-X-XX.XX-X-XX-O-X
BY: CLAY W 9/8/2010 SHEET 5 OF 7

SUB-ACTHB-22-X-XX

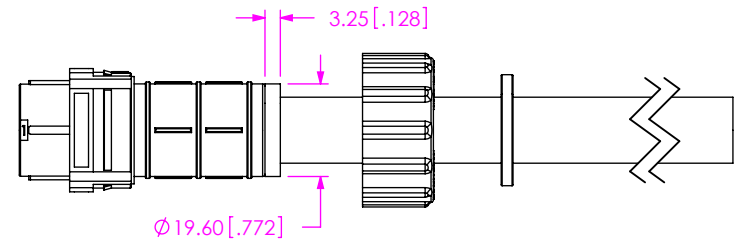


SUB-ACSHB-22-X-XX

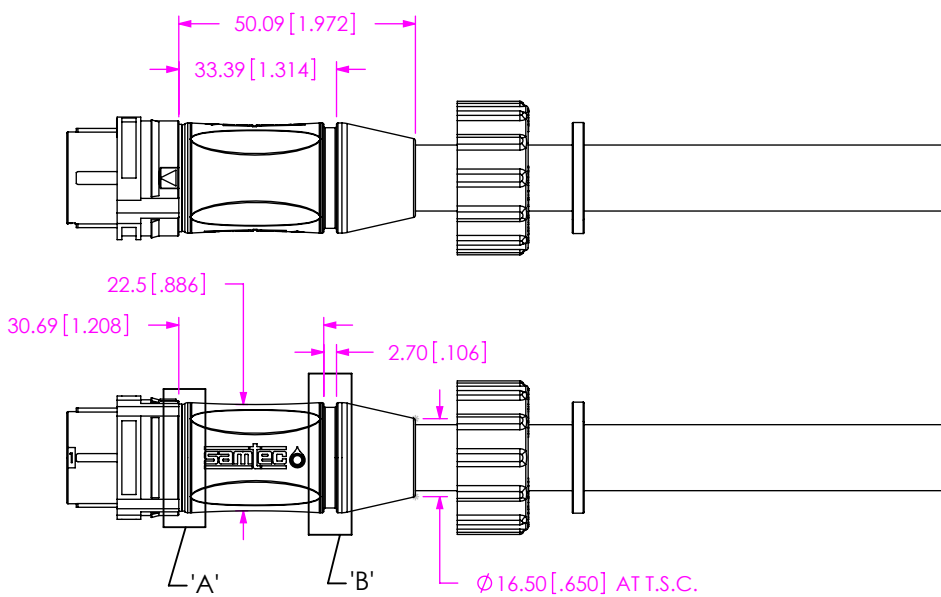


IN-PROCESS 5

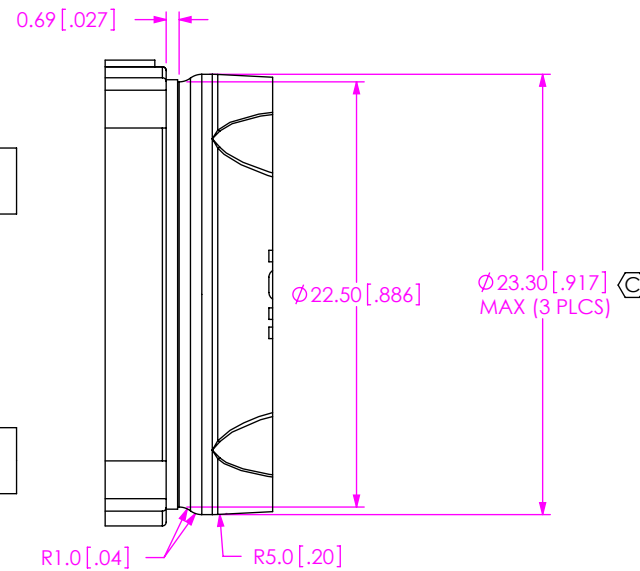
WHILE MAKING SURE ALIGNMENT ARROWS LINE UP TO AID POLARIZATION BEAM ENGAGEMENT, INSERT SUB-ACXHB-22-X-XX SUB-ASSEMBLY INTO ACCOS-22-P-X UNTIL SNAP LOCKS ENGAGE.



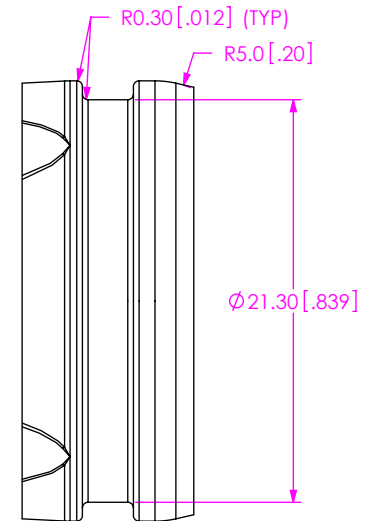
IN-PROCESS 6
APPLY PREMOLD



IN-PROCESS 7
APPLY OVERMOLD GRIP



DETAIL 'A'
SCALE 2.5 : 1



DETAIL 'B'
SCALE 2.5 : 1

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DO NOT SCALE DRAWING

SHEET SCALE: 1:25:2

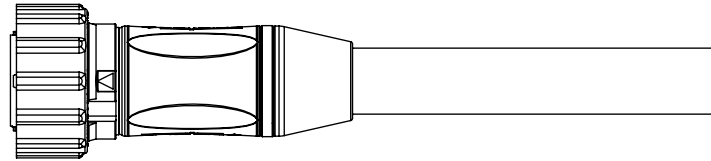
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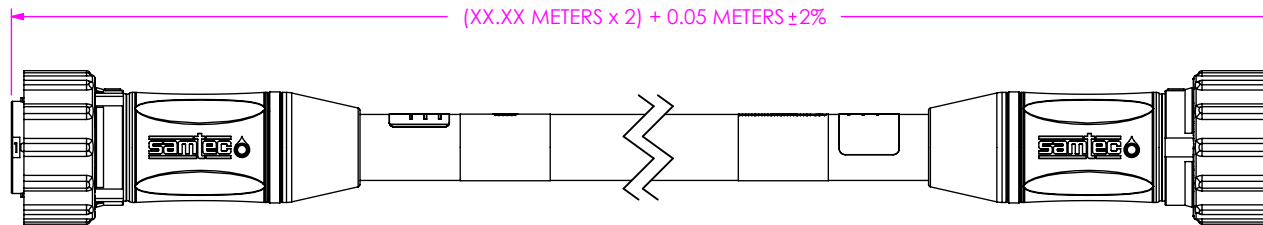
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ACCLIMATE CIRC. CABLE ASSEMBLY

DWG. NO.
ACP-22-XX-X-XX.XX-X-XX-O-X

BY: CLAY W 9/8/2010 SHEET 6 OF 7



IN-PROCESS 8
 PUSH ACCLS-22-M OVER OVERMOLD
 AND ACCOS-22-P-X UNTIL IT SNAPS INTO PLACE AGAINST
 FLANGE. STRETCH ACCR-22-X OVER OVERMOLD
 UNTIL IT SEATS IN GROOVE.



IN-PROCESS 9
 (-BC END OPTION ONLY)
 BUILD DOUBLE-ENDED INITIALLY FOR E-TEST,
 APPLY LABEL-ET & HDRL-11 TO BOTH ENDS,
 AND CUT CABLE IN HALF

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DO NOT SCALE DRAWING
 SHEET SCALE: 1.25:2



520 PARK EAST BLVD, NEW ALBANY, IN 47150
 PHONE: 812-944-6733 FAX: 812-948-5047
 e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
 ACCLIMATE CIRC. CABLE ASSEMBLY

DWG. NO.
 ACP-22-XX-X-XX.XX-X-XX-O-X

BY: CLAY W 9/8/2010 SHEET 7 OF 7