



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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DESIGNED & DIMENSIONED IN MILLIMETERS [INCHES]

MCP-8-02-X-XX.XX-X-XX

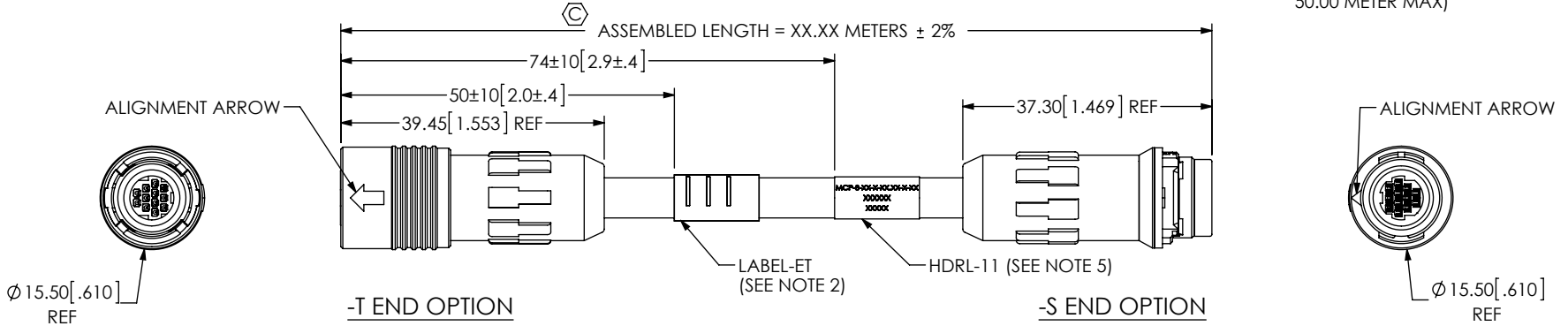
PLUG  
SIZE  
LEAD STYLE  
-02: 12 POS, 28 AWG  
PLATING SPECIFICATION  
-L: 10µ" GOLD IN CONTACT AREA

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

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

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

FIG 1  
MCP-8-02-X-XX.XX-T-S SHOWN



END OPTIONS

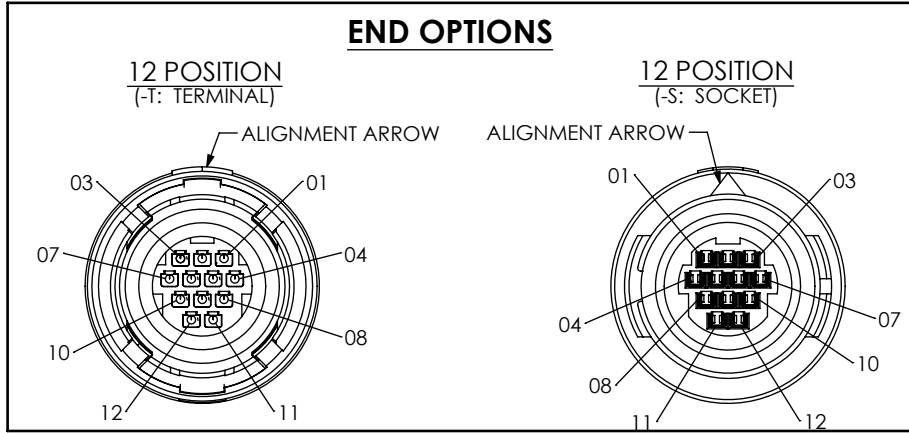
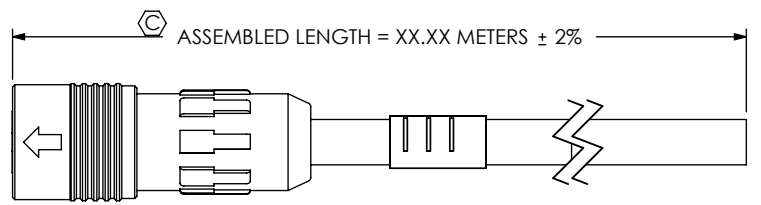


FIG 2  
MCP-8-02-X-XX.XX-T-BC SHOWN  
(BUILT DOUBLE ENDED INITIALLY FOR E-TEST)



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 PER PACKAGING STANDARD CO-RF-WI-3001-M.
4. SIGNAL MAPPING IS 1 TO 1, 2 TO 2, 3 TO 3, etc..
5. PLACE HDRL-11 (LABEL) ON CABLE WHERE SHOWN. LABEL TO CONTAIN  
LINE 1 - PART NUMBER "MCP-8-XX-X-XX.XX-X-XX"  
LINE 2 - SHOP ORDER NUMBER "XXXXXX"  
LINE 3 - DATE CODE "XXXXX"
6. CONTACTS/TERMINALS MUST BE INSERTED UNTIL RETENTION FEATURE LOCKS INTO PLACE.
7. REFER TO CRIMP-SPECIFICATIONS PRINT FOR CRIMP AND STRIP DIMENSIONS, TOLERANCES, TOOLING, AND ITS REQUIREMENTS.
8. -T (TERMINAL): REFERENCE DC-MCP-8 PRINT FOR TERMINAL DUSTCAP  
-S (SOCKET): REFERENCE DC-MCR-8 PRINT FOR SOCKET DUSTCAP
9. APPLY EPOXY-40 (LOCTITE 7649) TO THE THREADS AND ALLOW TO DRY FOR 60 SECONDS.
10. APPLY EPOXY-41 (LOCTITE 271) TO THE THREADS.
11. O-RING MUST BE SEATED AGAINST CH-P-30-8-12.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. TOLERANCES ARE:  
DECIMALS ANGLES  
X.X: ±0.3 [.01]  
X.XX: ±0.13 [.005]  
X.XXX: ±0.051 [.0020]

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**samtec**  
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
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e-Mail info@SAMTEC.com code 53322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:1  
INSULATORS, CABLE NUT, C-RING: PPS  
TERMINALS & CONTACTS: PHOS BRONZE  
GASKET, O-RING: SILICONE  
SPRING: STAINLESS STEEL  
COUPLING RING, SPACER: PBT  
CABLE CLAMP: POM

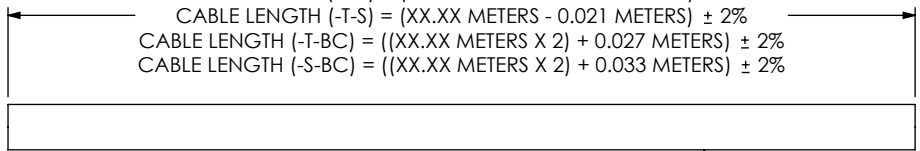
DESCRIPTION:  
MINI CIRC. CABLE ASSEMBLY  
DWG. NO.  
MCP-8-02-X-XX.XX-X-XX  
BY: J. BORGELT 2/15/13 SHEET 1 OF 3

REVISION A

IN-PROCESS 1

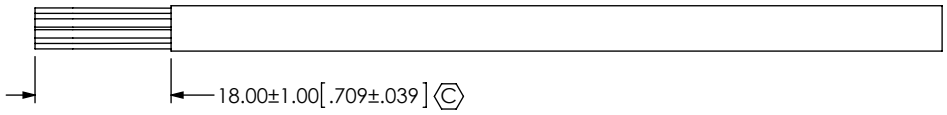
CUT CABLE TO LENGTH SHOWN BASED ON END 1 & 2 GENDER  
 (-BC FORMULA LENGTHS ADJUSTED TO INITIALLY BUILD CABLES DOUBLE ENDED)

- ⊕ CABLE LENGTH (-T-T) = (XX.XX METERS - 0.02 METERS) ± 2%
- ⊕ CABLE LENGTH (-S-S) = (XX.XX METERS - 0.017 METERS) ± 2%
- ⊕ CABLE LENGTH (-T-S) = (XX.XX METERS - 0.021 METERS) ± 2%
- ⊕ CABLE LENGTH (-T-BC) = ((XX.XX METERS X 2) + 0.027 METERS) ± 2%
- ⊕ CABLE LENGTH (-S-BC) = ((XX.XX METERS X 2) + 0.033 METERS) ± 2%



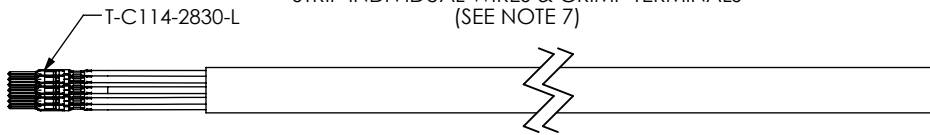
BWC-MCP-28-12-02

IN-PROCESS 2  
 STRIP OUTER JACKET



18.00 ± 1.00 [ .709 ± .039 ] ⊕

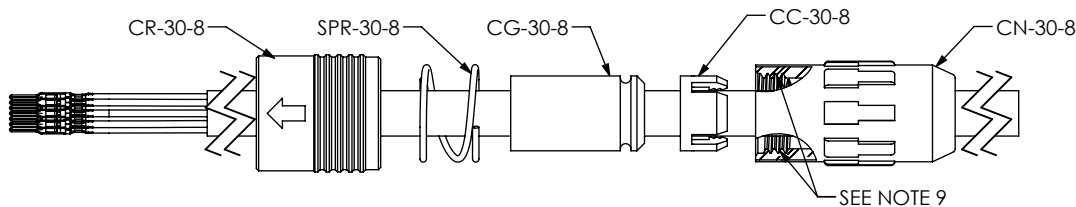
-T (TERMINAL): IN-PROCESS 3  
 STRIP INDIVIDUAL WIRES & CRIMP TERMINALS  
 (SEE NOTE 7)



T-C114-2830-L

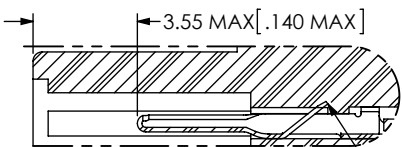
-T (TERMINAL): IN-PROCESS 4

APPLY EPOXY-40 (LOCTITE 7649) TO THE INTERNAL THREADS OF CN-30-8 (SEE NOTE 9).  
 THEN SLIDE COMPONENTS ONTO CABLE IN ORDER SHOWN

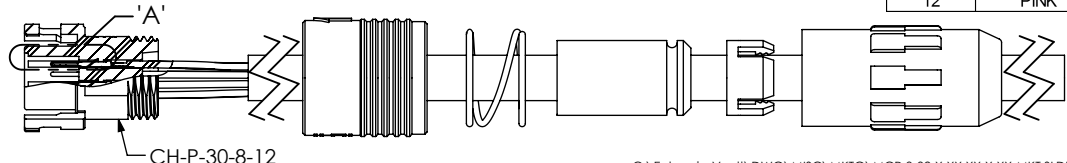


SEE NOTE 9

-T (TERMINAL): IN-PROCESS 5  
 INSERT TERMINALS INTO CH-P-30-8-12 INSULATOR  
 UNTIL THEIR RETENTION FEATURES LOCK INTO PLACE.  
 SEE TABLE 1 FOR COLOR MAPPING.

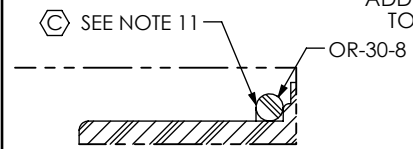


DETAIL 'A'  
 SCALE 4:1  
 ⊕ SEE NOTE 6

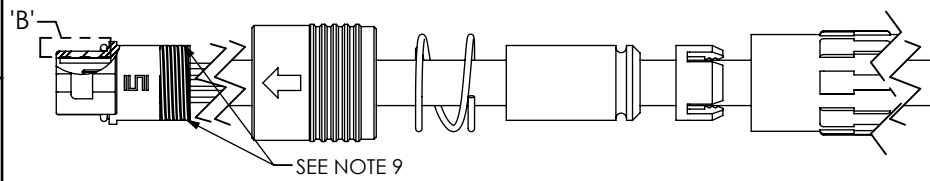


CH-P-30-8-12

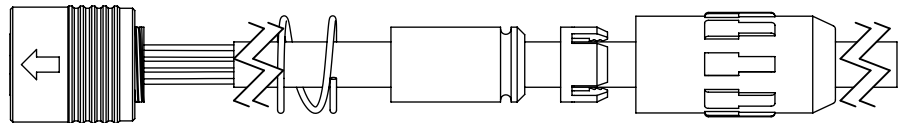
-T (TERMINAL): IN-PROCESS 6  
 ADD OR-30-8 AND APPLY EPOXY-40 (LOCTITE 7649)  
 TO THE THREADS OF CH-P-30-8-12 (SEE NOTE 9)



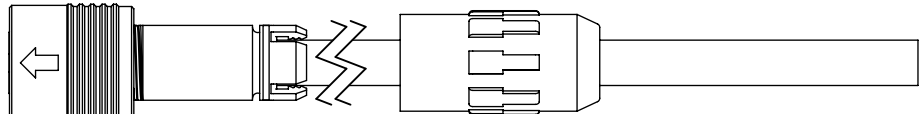
DETAIL 'B'  
 SCALE 4:1



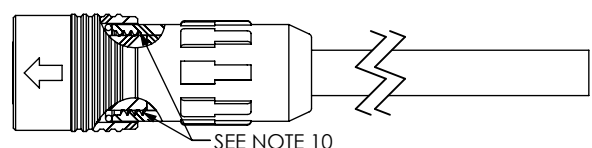
-T (TERMINAL): IN-PROCESS 7  
 WHILE ALIGNING ORIENTATION FEATURES  
 SLIDE CR-30-8 ONTO CH-P-30-8-12



-T (TERMINAL): IN-PROCESS 8  
 SLIDE SPR-30-8 INTO CR-30-8.  
 THEN SLIDE CG-30-8 UNTIL IT SEATS AGAINST THE BACK OF CH-P-30-8-12.  
 THEN SLIDE CC-30-8 IN UNTIL IT SEATS AGAINST THE BACK OF CG-30-8.



-T (TERMINAL): IN-PROCESS 9  
 APPLY EPOXY-41 (LOCTITE 271) TO THREADS OF CN-30-8 (SEE NOTE 10). THEN  
 THREAD CN-30-8 ON TO THE CH-P-30-8-12 & TORQUE TO 0.5 Nm [4.4 IN-LBS].



SEE NOTE 10

TABLE 1	
POSITION	COLOR
01	BROWN
02	RED
03	ORANGE
04	YELLOW
05	GREEN
06	BLUE
07	VIOLET
08	GRAY
09	WHITE
10	BLACK
11	LIGHT BLUE
12	PINK

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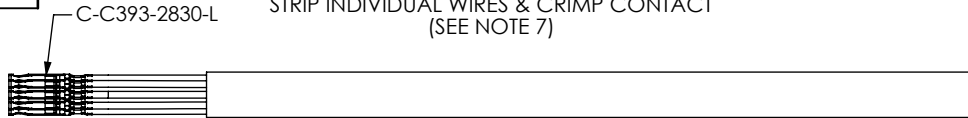
DESCRIPTION:  
 MINI CIRC. CABLE ASSEMBLY

DWG. NO.  
**MCP-8-02-X-XX.XX-X-XX**

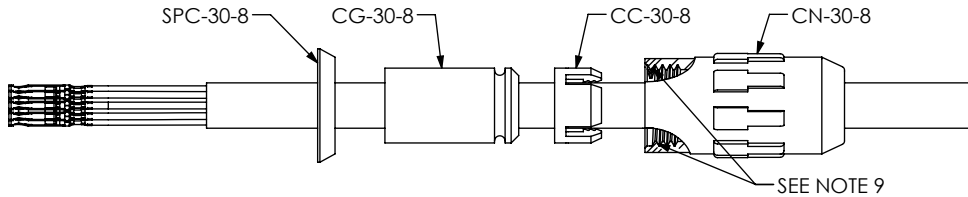
BY: J. BORGELT 2/15/13 SHEET 2 OF 3

REVISION A

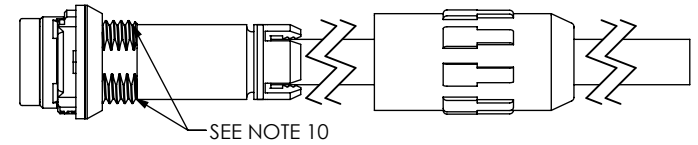
**-S (SOCKET): IN-PROCESS 3**  
 STRIP INDIVIDUAL WIRES & CRIMP CONTACT  
 (SEE NOTE 7)



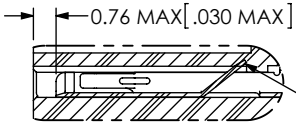
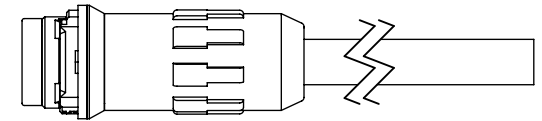
**-S (SOCKET): IN-PROCESS 4**  
 APPLY EPOXY-40 (LOCTITE 7649) TO THE THREADS OF CN-30-8 (SEE NOTE 9)  
 SLIDE COMPONENTS ONTO CABLE IN ORDER SHOWN



**-S (SOCKET): IN-PROCESS 7**  
 APPLY EPOXY-41 (LOCTITE 271)  
 TO THE THREADS OF SUB-MCR-8-12. (SEE NOTE 10)



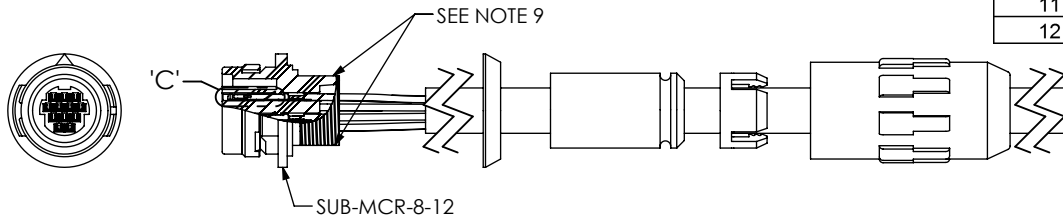
**-S (SOCKET): IN-PROCESS 8**  
 THREAD CN-30-8 ON TO SUB-MCR-8-12 & TORQUE TO 0.5 Nm [4.4 IN-LBS].



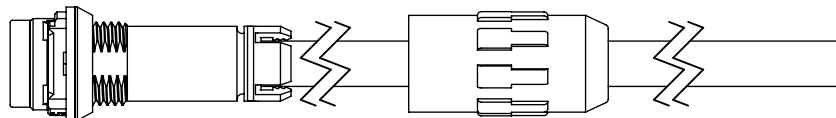
**-S (SOCKET): IN-PROCESS 5**  
 APPLY EPOXY-40 (LOCTITE 7649) TO THE THREADS OF SUB-MCR-8-12.  
 INSERT CONTACTS INTO SUB-MCR-8-12 INSULATOR  
 UNTIL THEIR RETENTION BEAMS ENGAGE.  
 SEE TABLE 2 FOR COLOR MAPPING.  
 (SEE NOTE 9)

DETAIL 'C'  
 SCALE 4:1

TABLE 2	
POSITION	COLOR
01	BROWN
02	RED
03	ORANGE
04	YELLOW
05	GREEN
06	BLUE
07	VIOLET
08	GRAY
09	WHITE
10	BLACK
11	LIGHT BLUE
12	PINK



**-S (SOCKET): IN-PROCESS 6**  
 SLIDE SPC-30-8 ONTO SUB-MCR-8-12.  
 THEN SLIDE CG-30-8 UNTIL IT SEATS AGAINST THE BACK OF SUB-MCR-8-12.  
 THEN SLIDE CC-30-8 UNTIL IT SEATS AGAINST THE BACK OF CG-30-8.



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