

MFG. ENG.	APPROVED BY:	DATE:	QA	APPROVED BY:	DATE:
-----------	--------------	-------	----	--------------	-------

PART NUMBER	DESCRIPTION	CABLE O.D. RANGE
DCC-USBCB-120	MICRO USB TYPE B FIELD INSTALLABLE PLUG	0.137 - 0.157in [3.5 - 4.0mm]

NOTES:

- PRODUCT IS RATED AT IP67 & IP68, NEMA 250 (6P) WHEN MATED.
- PRODUCT IS TESTED PER USB 2.0 SPECIFICATIONS.
- OPERATING TEMPERATURE: -25°C TO +85°C.
- MATERIALS:  
 PLUG NUT, COUPLING NUT, PLUG HOUSING, & INSERT: THERMOPLASTIC.  
 O-RING & SEALING RING: ELASTOMER.  
 PLUG INSULATOR: THERMOPLASTIC, UL94V-0, BLACK.  
 PLUG CONTACTS: COPPER ALLOY, GOLD PLATED (CONTACT AREA).  
 PLUG CONTACTS: COPPER ALLOY, TIN PLATED (SOLDER AREA).  
 METAL SHIELD: STEEL, NICKEL PLATED.
- ENVIRONMENTAL & MECHANICAL SPECIFICATIONS (WHEN MATED):  
 MOISTURE RESISTANCE: MIL-STD 202G METHOD 106G.  
 INSULATION RESISTANCE: MIL-STD 202G METHOD 302G.  
 THERMAL SHOCK: MIL-STD 202G METHOD 107G.  
 VIBRATION: MIL-STD 202G METHOD 201A.  
 LIFE: 300 CYCLES MINIMUM (COUPLING NUT).  
 SALT SPRAY: MIL-STD 202G METHOD 101E.
- PARTS SHIPPED BULK PACKAGED, UNASSEMBLED.

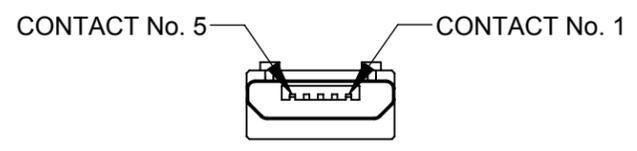
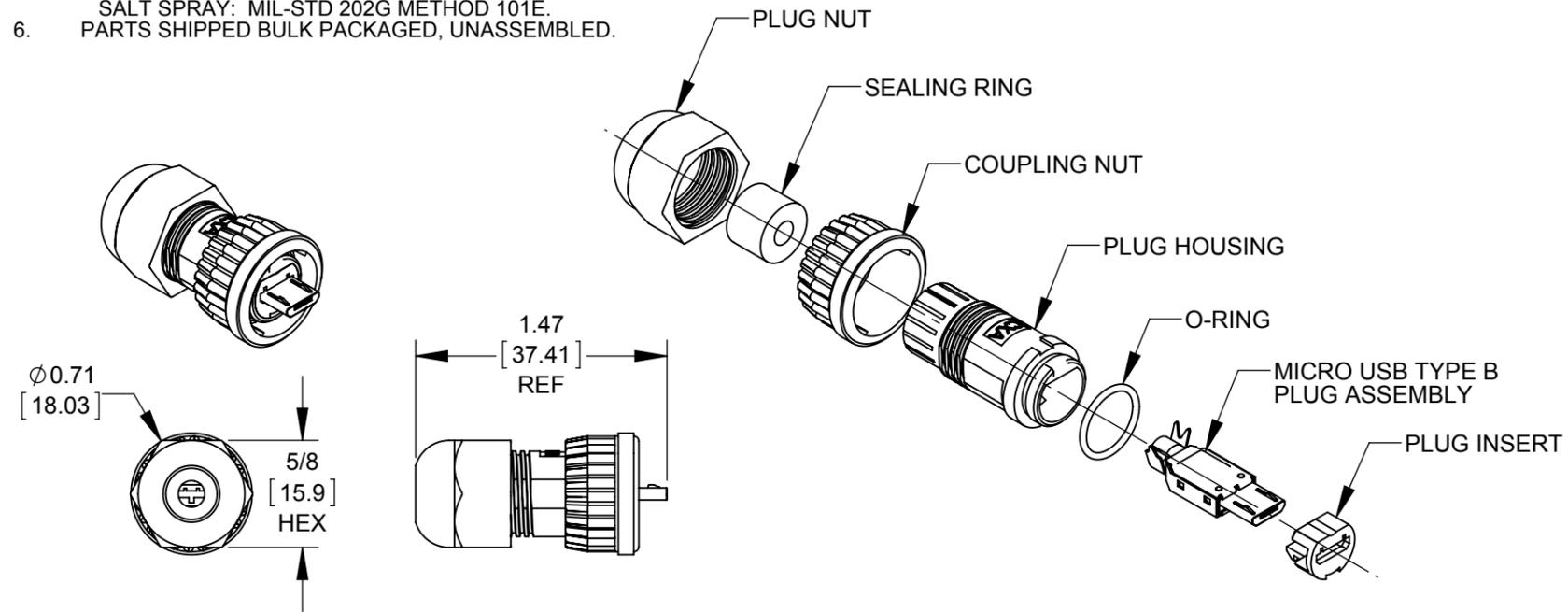


FIGURE 1: MICRO USB CONTACT LOCATION  
SCALE 3:1

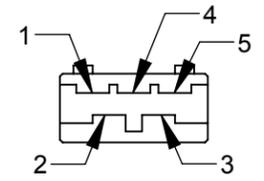


FIGURE 3: MICRO USB WIRING LOCATION  
SCALE 3:1

CONTACT NUMBER	TYPICAL WIRING PER USB 2.0
1	RED
2	WHITE
3	GREEN
4	NOT CONNECTED
5	BLACK
SHELL	DRAIN WIRE

FIGURE 2: MICRO USB CONNECTOR TERMINATION

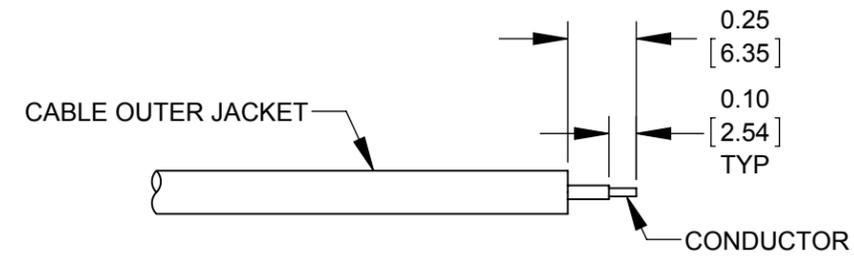
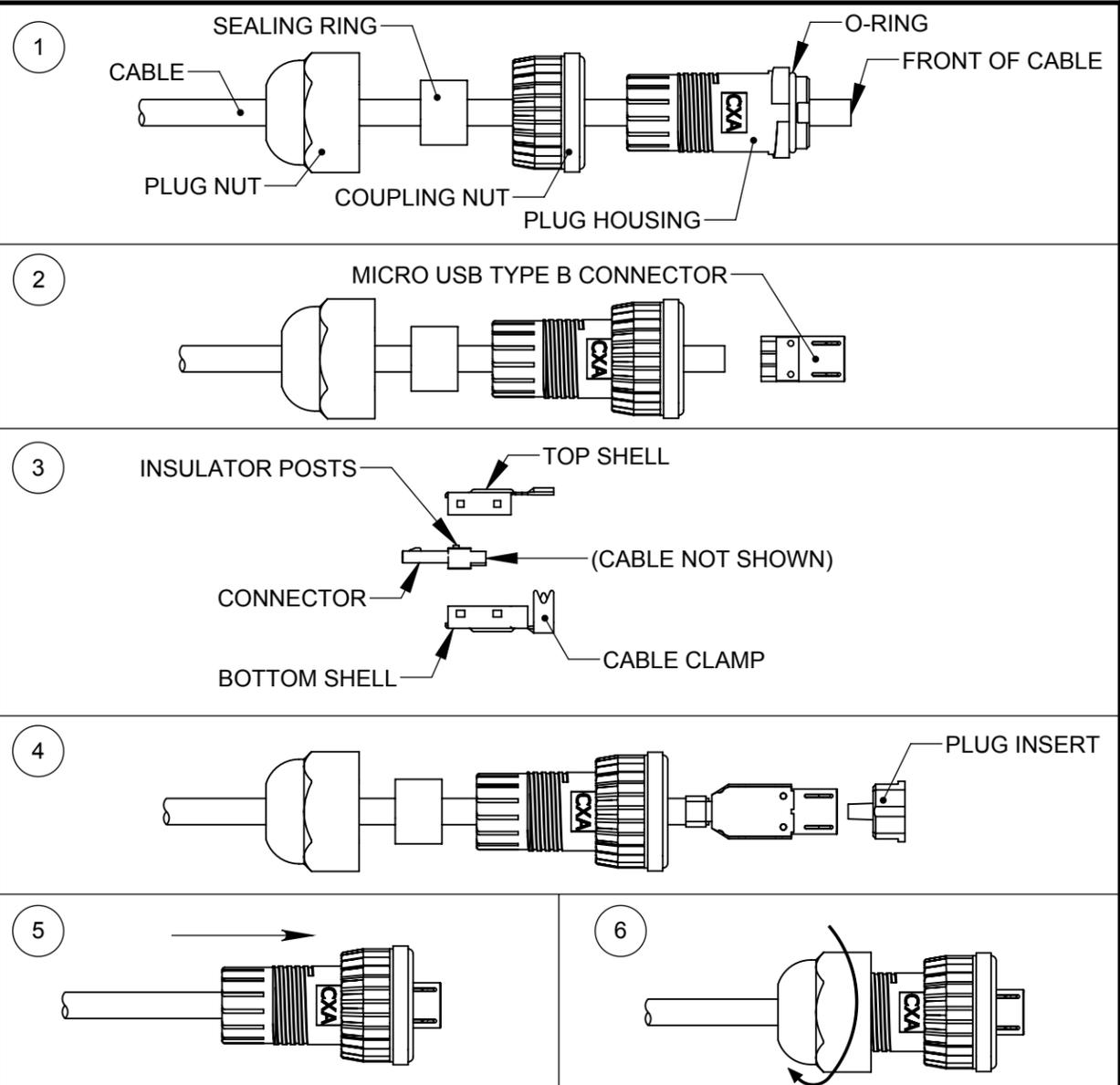


FIGURE 4: RECOMMENDED STRIP DETAIL  
SCALE 3:2



ASSEMBLY INSTRUCTIONS:

- FIT THE O-RING OVER THE PLUG HOUSING. SLIDE THE PLUG NUT, SEALING RING, THE COUPLING NUT, AND PLUG HOUSING OVER THE CABLE. (CABLE IS CUSTOMER SUPPLIED.)
- STRIP THE CABLE PER THE RECOMMENDED STRIP DETAIL SHOWN IN FIGURE 4, AND SOLDER THE CONDUCTORS TO THE APPROPRIATE PINOUT OF THE CONNECTOR. THE RECOMMENDED USB 2.0 PINOUT IS SHOWN IN FIGURE 2.
- ONCE CABLE IS SOLDERED TO THE CONNECTOR, ATTACH THE TOP SHELL TO THE CONNECTOR INSULATOR BODY USING THE POSTS AS GUIDES. NEXT SNAP THE BOTTOM SHELL INTO PLACE. CRIMP THE CABLE CLAMP OVER THE CABLE USING STANDARD FLAT PLIERS.
- INSERT THE MICRO USB CABLE ASSEMBLY INTO THE PLUG INSERT.
- SLIDE THE PLUG HOUSING SO THAT IT SNAPS OVER THE PLUG INSERT AND MICRO USB ASSEMBLY.
- PUSH THE SEALING RING INTO THE REAR OF THE PLUG HOUSING. (NOTE: NO PART OF THE SEALING RING SHOULD EXTEND PAST THE REAR OF THE PLUG HOUSING.) SCREW THE PLUG NUT ONTO THE PLUG HOUSING. THE RECOMMENDED TIGHTENING TORQUE IS 2.5 INCH-LBS FORCE.

0B

PRELIMINARY

CUSTOMER DRAWING

0B	JGK	10/15/13	UPDATED TIGHTENING TORQUE FROM 3 TO 2.5.
0A	JGK	8/09/13	DRAWING CREATED PER PROJECT #09013-B.
REV.	INIT.	DATE	DESCRIPTION
	JGK	8/09/13	
ALL INFORMATION ILLUSTRATED IS THE PROPERTY OF CONXALL CORPORATION. UNAUTHORIZED DUPLICATION OR DISTRIBUTION OF THIS DOCUMENT IS PROHIBITED.			
ALL UNITS ARE IN FEET, INCHES, FRACTION OF INCHES AND DECIMALS.		UNLESS OTHERWISE SPECIFIED TOLERANCES: 3 PLACE DECIMALS ±.005 ANGLES ±1° FRACTIONS ±1/16	
APPROVED BY:		TITLE: MICRO USB TYPE B CABLE SERIES FIELD INSTALLABLE CABLE PLUG DATA-CON-X	
SCALE	SIZE	SHEET	CUSTOMER: STANDARD
1:1	B	1 OF 1	
FILE:	DIRECTORY:	PART NUMBER:	REV
DCC-USBCB-XXX_CD	SLW	DCC-USBCB SERIES	0B

RoHS COMPLIANT