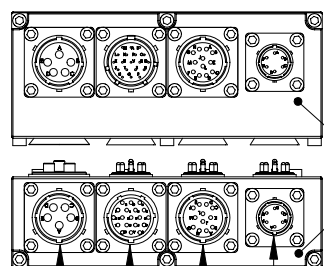
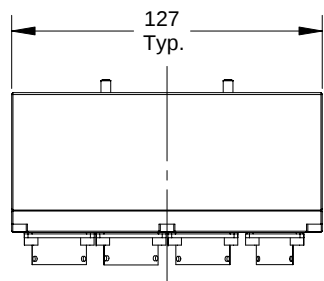
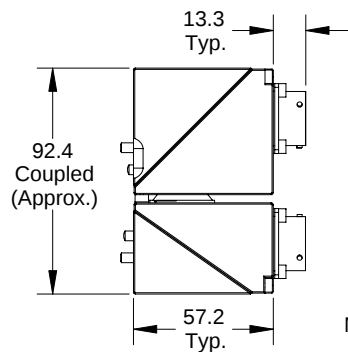
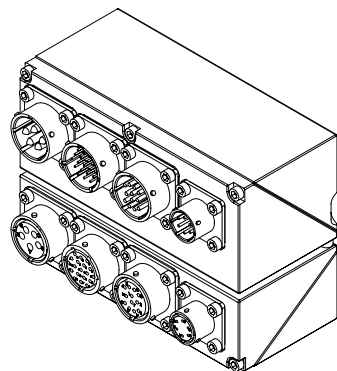
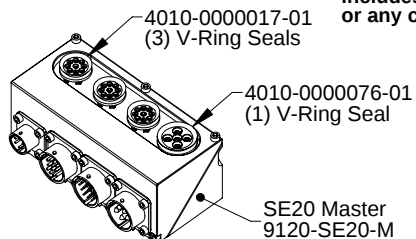
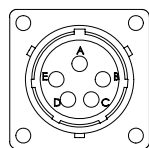


"DANGER! - For electrical modules using > 60VDC or 42 VAC, NO contact should be attempted before removing power. This especially includes separation or insertion of the mating connectors or any contact with the tool changer or its components."

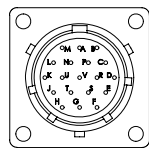


MS3112E14-5
MS3112E14-19
MS3112E14-12
MS3112E10-6

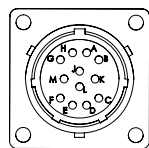
SE20 Master



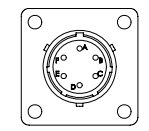
MS3112E14-5P



MS3112E14-19P



MS3112E14-12P



MS3112E10-6P

Pass Through Wiring

(Pins) (Connector Number) (Sockets)

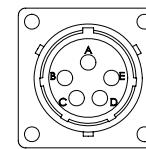
Master Connector	MS3112E14-5	Tool Connector
A	-----	A
B	-----	B
C	-----	C
D	-----	D
E	-----	E

Master Connector	MS3112E14-19	Tool Connector
A	-----	A
B	-----	B
C	-----	C
D	-----	D
E	-----	E
F	-----	F
T	-----	T
U	-----	U
V	-----	V

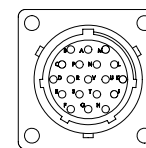
Master Connector	MS3112E14-12	Tool Connector
A	-----	A
B	-----	B
C	-----	C
D	-----	D
E	-----	E
F	-----	F
H	-----	H

Master Connector	MS3112E10-6	Tool Connector
A	-----	A
B	-----	B
C	-----	C
D	-----	D
E	-----	E
F	-----	J

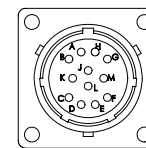
SE20 Tool



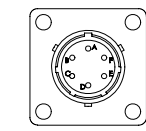
MS3112E14-5S



MS3112E14-19S

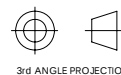


MS3112E14-12S



MS3112E10-6S

NOTES: UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DRAWING. DRAWN IN SOLIDWORKS.
ALL DIMENSIONS ARE IN MILLIMETERS.



3rd ANGLE PROJECTION



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EXCEPT ON ORDER OR WITH PRIOR WRITTEN AUTHORIZATION OF ATI.

DRAWN BY: D.Lawson-05/14/2010	TITLE: SE20 Servo Module Wiring			
CHECKED BY: DTM&DSS-05/14/2010	SCALE: 1:2	SIZE: B	DRAWING NUMBER: 9630-20-SE20	REVISION: 02
WEIGHT LBS: 2.50	PRODUCT RELEASE # 090213-2 DATE: SHEET 1 OF 1			
ASSEMBLY REF:				