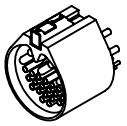
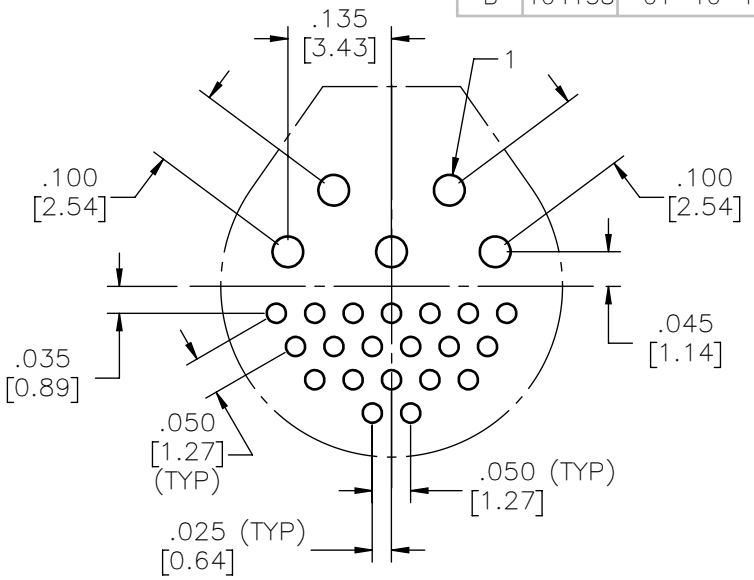
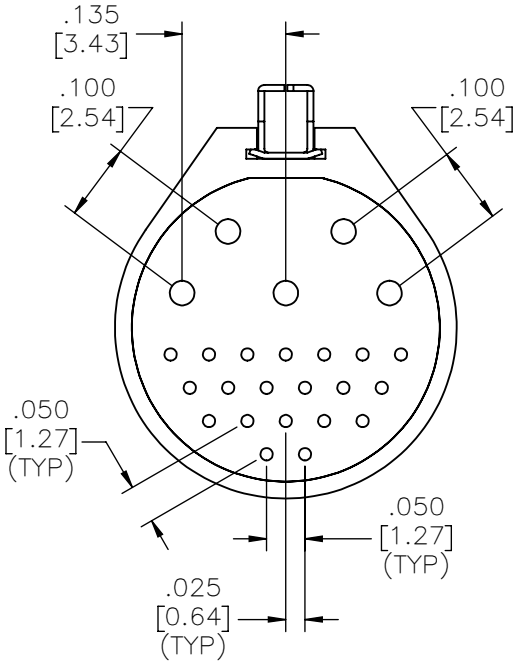
PART NO.	A90183-001	REV	ECO	DATE	APP
		B	104158	01-10-18	HV

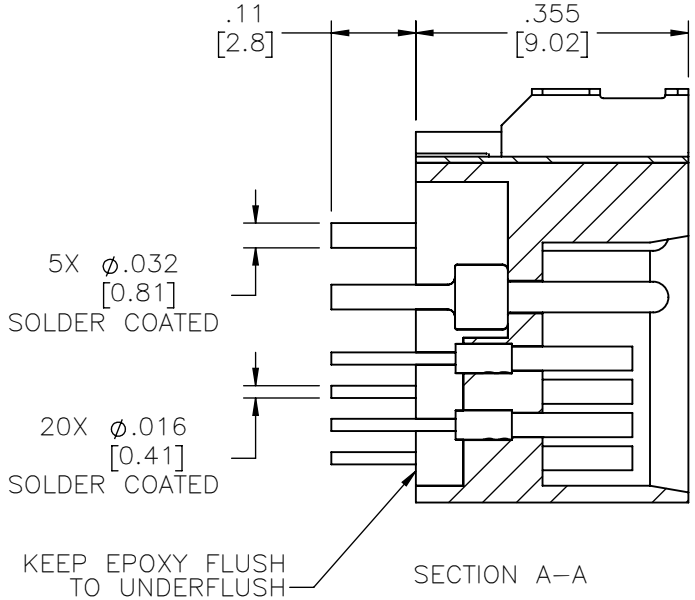


ACTUAL SIZE

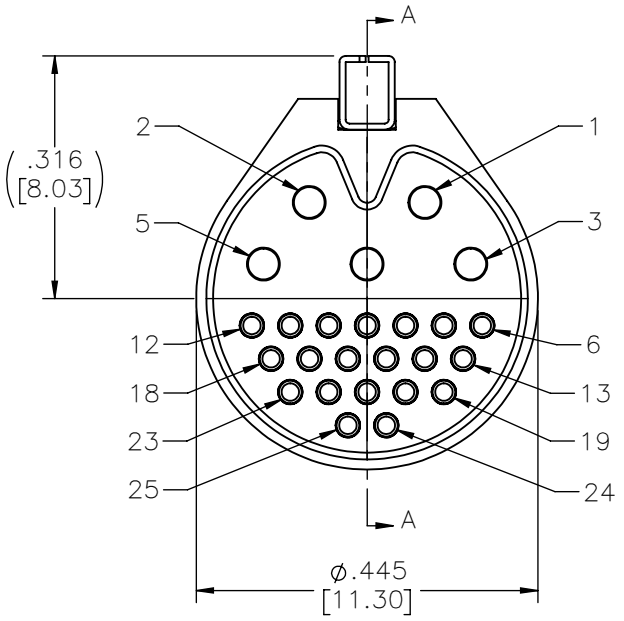


SUGGESTED
HOLE PATTERN





SECTION A-A



NOTE:

DIMENSIONS IN [ ] ARE IN MILLIMETERS UNLESS OTHERWISE NOTED AND ARE FOR REFERENCE ONLY

MCS
SLDW

THIRD ANGLE
-TOLERANCES-
UNLESS OTHERWISE NOTED
DIMENSIONS IN INCHES
2 PL DEC ± .01
3 PL DEC ± .005
4 PL DEC ± .0005
ANGLES ± 1°

		DATE
DFTM. ACW		09-16-15
CHK'D.		DATE
APP'D.		DATE

TITLE:
(5-20) CONTACT
POWER/SIGNAL PLASTIC
CIRCULAR CONNECTOR

OMNETICS
CONNECTOR CORPORATION
7260 COMMERCE CIRCLE EAST
MINNEAPOLIS, MN 55432
WWW.OMNETICS.COM

CAGE CODE 61873
DWG NO. A90183-001
SHEET 1 OF 3
SCALE: 4:1
REV B

MATERIALS & SPECIFICATIONS

INSULATOR
POLYETHERIMIDE

CONTACT MATERIAL
SIGNAL – COPPER ALLOY PER MIL-DTL-83513

POWER – COPPER ALLOY PER SAE-AS39029

CONTACT FINISH
SIGNAL – GOLD PLATE PER ASTM B488, TYPE II, CLASS 1.27, CODE C OVER NICKEL UNDERPLATE

POWER – GOLD PLATE PER ASTM B488, TYPE II, CLASS 1.27, CODE C OVER NICKEL UNDERPLATE

LATCH MATERIAL
BERYLLIUM COPPER PER ASTM B194

LATCH FINISH
ELECTROLESS NICKEL PER SAE-AMS-2404

TERMINATION
SIGNAL – SOLDER COATED WITH SN63A PER J-STD-006

POWER – SOLDER COATED WITH SN63A PER J-STD-006

OMNETICS
CONNECTOR CORPORATION
7260 COMMERCE CIRCLE EAST
MINNEAPOLIS, MN 55432
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PART NO.	A90183-001	REV	ECO	DATE	APP
		B	104158	01-10-18	HV

PRODUCT FAMILY TESTED TO AND PASSED THE FOLLOWING PERFORMANCE SPECIFICATIONS

CURRENT RATING:	3 AMPS MAX (SIGNAL CONTACTS)
	10 AMPS MAX (POWER CONTACTS)
DIELECTRIC WITHSTANDING VOLTAGE:	600 VAC RMS (SIGNAL CONTACTS)
	1000 VAC RMS (POWER CONTACTS)
INSULATION RESISTANCE:	5000 MEGAOHMS MIN @ 500 VDC
CONTACT RESISTANCE:	26 MILLIOHMS (65 mV) MAX @ 2.5 AMPS (SIGNAL CONTACTS)
	7 MILLIOHMS (55 mV) MAX @ 7.5 AMPS (POWER CONTACTS)
CONTACT ENGAGEMENT & SEPARATION FORCES:	6 OZ MAX/CONTACT (ENGAGEMENT SIGNAL)
	.5 OZ MIN/CONTACT (SEPARATION SIGNAL)
	18 OZ MAX/CONTACT (ENGAGEMENT POWER)
	.7 OZ MIN/CONTACT (SEPARATION POWER)
TEMPERATURE CYCLING:	-55°C TO +125°C, 5 CYCLES
VIBRATION*:	EIA-364-28, TEST CONDITION IV, 20 g's
MECHANICAL SHOCK*:	EIA-364-27, TEST CONDITION D, 300 g's
DURABILITY:	500 CYCLES

*PENDING COMPLETION OF TESTING

MCS SLDW

THIRD ANGLE

-TOLERANCES-
UNLESS OTHERWISE NOTED
DIMENSIONS IN INCHES
2 PL DEC ± .01
3 PL DEC ± .005
4 PL DEC ± .0005
ANGLES ± 1°

DFTM. ACW	DATE 09-16-15	TITLE: (5-20) CONTACT POWER/SIGNAL PLASTIC CIRCULAR CONNECTOR
CHK'D.	DATE	
APP'D.	DATE	

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CAGE CODE	61873
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SHEET 3 OF 3	REV B
SCALE: 4:1	