

3M™ IP67 D-SUB, MALE/FEMALE CONNECTORS, 8PC15 SERIES
 SOLDER CUP, PRESS-FIT, RIGHT ANGLE, 2.29MM CENTERLINE

NOTES

- REGULATORY INFORMATION:
VISIT 3M.com/regs
- IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.

2 PHYSICAL :

8PC15-PFRA, 8PC15-WMCC AND 8PC15-PC
 INSULATOR:
 MATERIAL: GLASS FILLED POLYESTER (PBT)
 FLAMMABILITY: UL94V-0
 COLOR: BLACK

CONTACT:
 MATERIAL: COPPER ALLOY

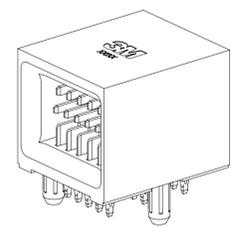
8PC15-PFRA, 8PC15-WMCC AND 8PC15-PC
 PLATING:
 UNDER PLATING: 1.27µm [50µ"] AVG. NICKEL-OVERALL
 WIPING AREA: 0.38µm [15µ"] AVG. GOLD

8PC15-PFRA
 SOLDER TAILS: 0.5-1.5µm [20-60µ"] MATTE TIN

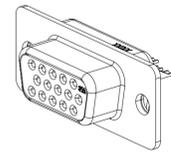
8PC15-WMCC
 SOLDER TAILS: 3-5µm [120-200µ"] MATTE TIN

8PC15-NAPC AND 8PC15-ACPC
 MAIN BODY:
 MATERIAL: GLASS FILLED NYLON (PA6)
 FLAMMABILITY: UL94V-0
 COLOR: BLACK

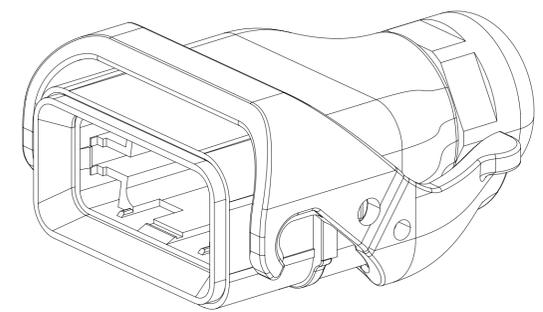
8PC15-PFRA, 8PC15-WMCC, 8PC15-PC,
 8PC15-NAPC AND 8PC15-ACPC
 MARKINGS: 3M LOGO, DATE CODE



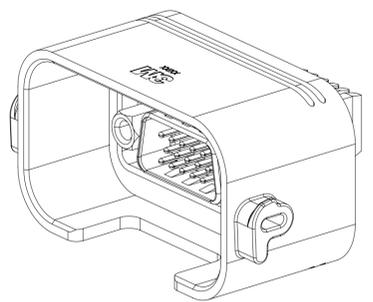
8PC15-PFRA
 RIGHT ANGLE PCB
 PRESS-FIT, MALE



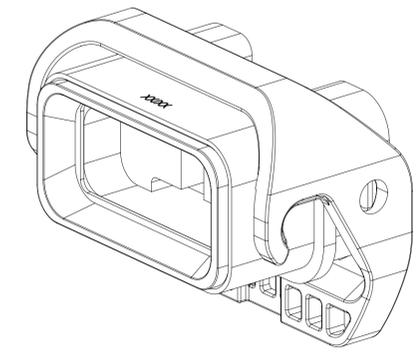
8PC15-WMCC
 D-SUB, HD CABLE CONNECTOR
 SOLDER CUP, FEMALE



8PC15-ACPC
 WATERPROOF CAP
 ASSEMBLY, D-SUB



8PC15-PC
 WATERPROOF D-SUB
 CONNECTOR, MALE



8PC15-NAPC
 WATERPROOF CAP
 BLANK PLUG,
 D-SUB

2 ELECTRICAL :

CURRENT RATING: 3A
 VOLTAGE RATING: 220V
 CONTACT RESISTANCE: $\leq 15\text{m}\Omega$
 INSULATION RESISTANCE: >math>5000\text{M}\Omega</math>
 WITHSTANDING VOLTAGE: 1000Vrms, 1mA, 60s

2 MECHANICAL :

8PC15-WMCC
 INSERTION FORCE: $\leq 3.3\text{N/PIN}$
 EXTRACTION FORCE: >math>20.3\text{N/PIN}</math>
 WIRE GAUGE: 24-30 AWG

8PC15-NAPC
 MECHANICAL LIFE: 50 CYCLES

8PC15-ACPC
 MECHANICAL LIFE: 50 CYCLES
 WIRE GAUGE: ADAPTOR CABLE OUTER DIA. 5-9MM
 CABLE RETENTION FORCE: 100N MIN.

2 ENVIRONMENTAL :

WORKING TEMP: -40° C TO +85° C

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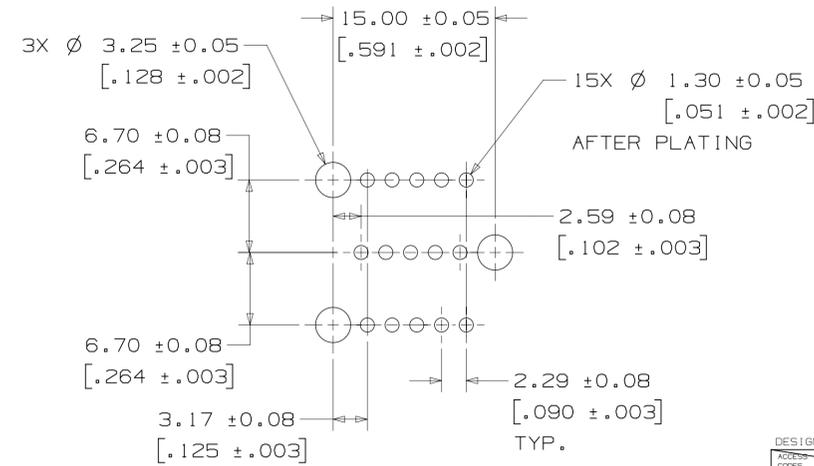
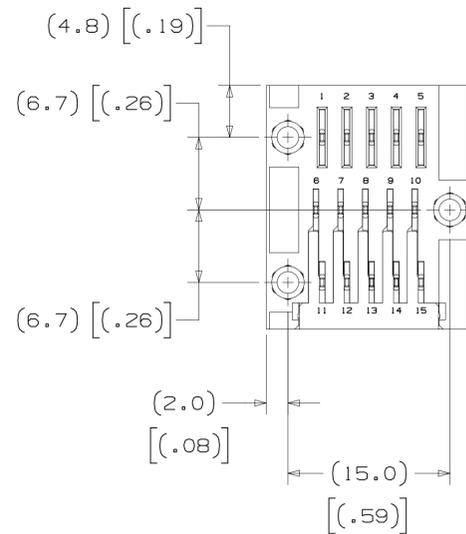
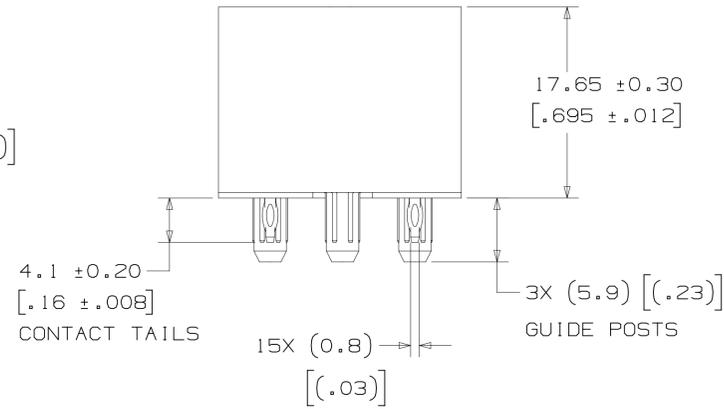
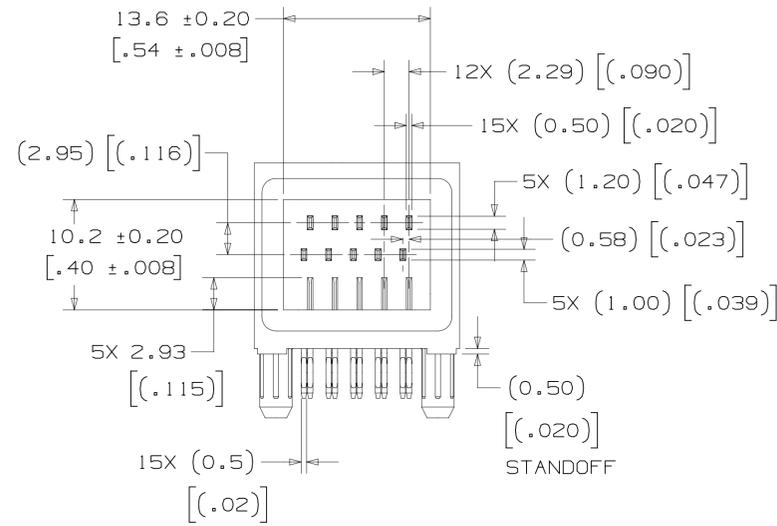
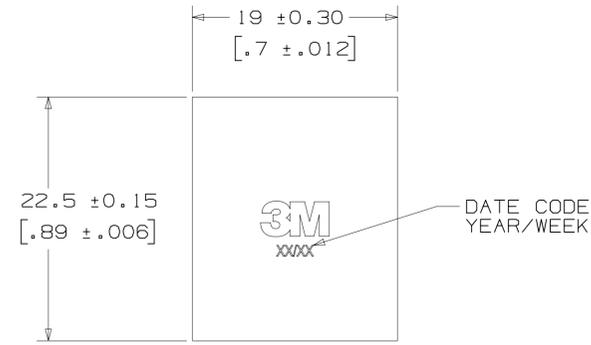
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DIMENSIONS: MM (INCH)
 (INCH) IS FOR REF. ONLY

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				AUG 30, 2023 PRODUCTION RELEASE	JNC	JG
APPROVED	DATE	DATE	DATE	DATE	DATE	DATE
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DO NOT SCALE DRAWING	SCALE 2/1	TOLERANCES EXCEPT AS NOTED	TITLE D-SUB, MALE/FEMALE, SOLDER-CUP, PRESS-FIT, RA			
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS 0 ± .50 .00 ± .25 .000 ± .13	CAGE NUMBER	SIZE	DRAWING NO.	REV.
MAX SURFACE ROUGHNESS	MARKED SURFACES	INCHES	D	78-5100-2789-5	A	
MARKED ONLY	ANGLES		MODEL	DET	ISTS	YES NO SHT 1 OF 7

78-5100-2789-5
DRAWING NUMBER

3M™ IP67 D-SUB, MALE/FEMALE CONNECTORS, 8PC15 SERIES
 SOLDER CUP, PRESS-FIT, RIGHT ANGLE, 2.29MM CENTERLINE



ORDERING INFORMATION
 8PC15-PFRA

SERIES
 NOTE:
 1) TRAY PACKAGING

RECOMMENDED HOLE PATTERN
 (AS VIEWED FROM CONNECTOR SIDE)
 PCB THICKNESS 2.0MM MIN.

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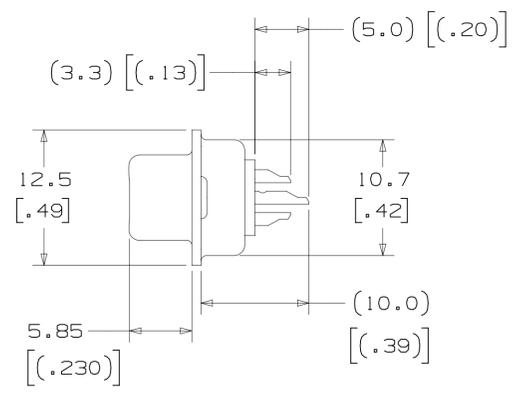
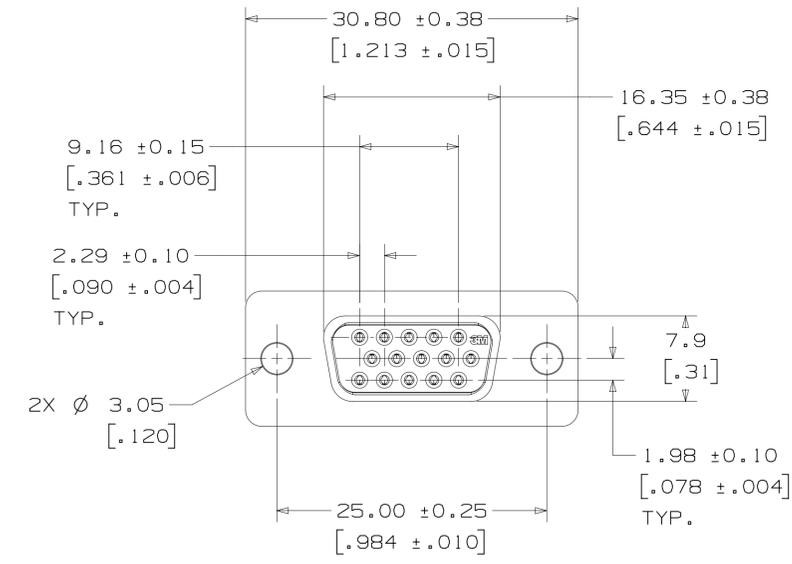
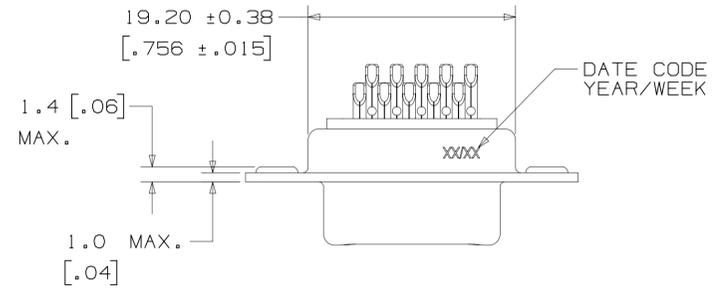
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APPROVED	DATE	DATE	DATE	DATE	DATE	DATE
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DO NOT SCALE DRAWING	SCALE 3/1	TOLERANCES EXCEPT AS NOTED INCHES .00 ±.00 .000 ±.000 .0000 ±.0000				
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS 0 ±.50 .00 ±.25 .000 ±.13				
MAX SURFACE ROUGHNESS	MARKED ONLY	TITLE D-SUB, MALE/FEMALE, SOLDER-CUP, PRESS-FIT, RA				
		CAGE NUMBER	SIZE	DRAWING NO.	REV.	
		D		78-5100-2789-5	A	
		MODEL				

78-5100-2789-5
DRAWING NUMBER

A

SHT 2 OF 7

3M™ IP67 D-SUB, MALE/FEMALE CONNECTORS, 8PC15 SERIES
 SOLDER CUP, PRESS-FIT, RIGHT ANGLE, 2.29MM CENTERLINE



ORDERING INFORMATION
 8PC15-WMCC

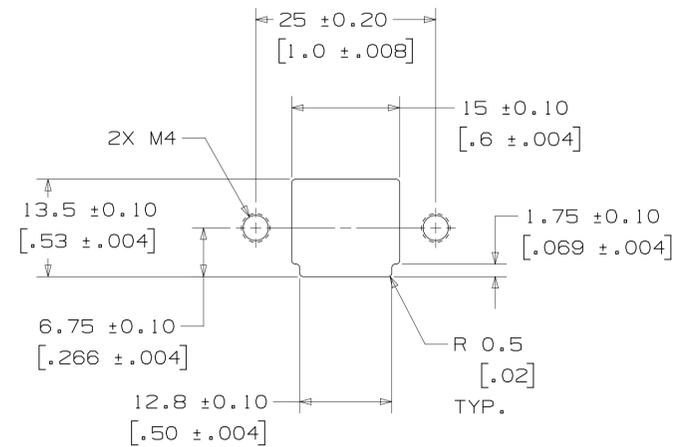
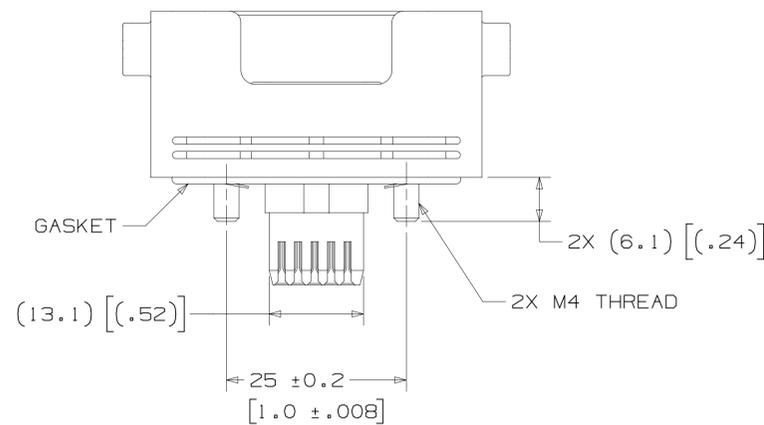
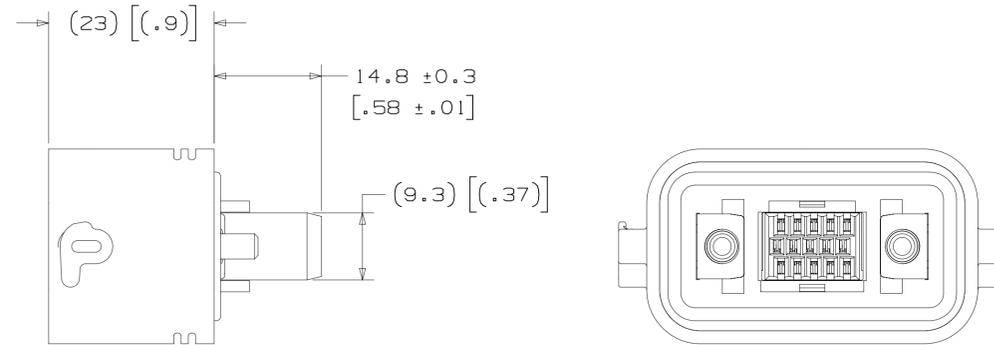
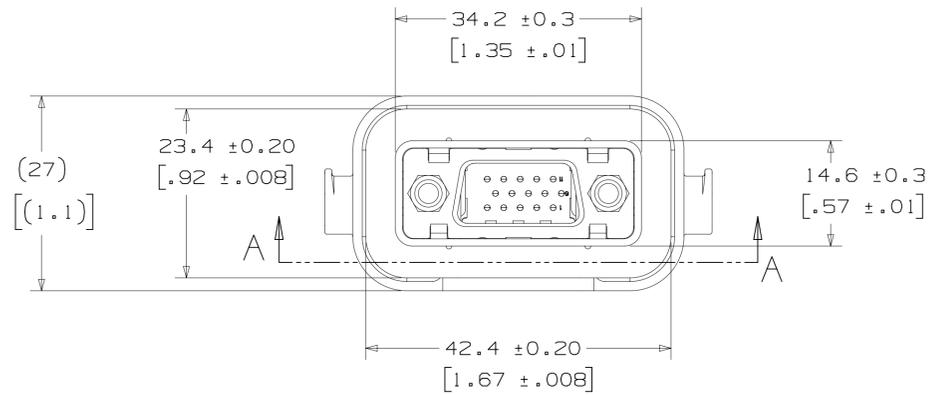
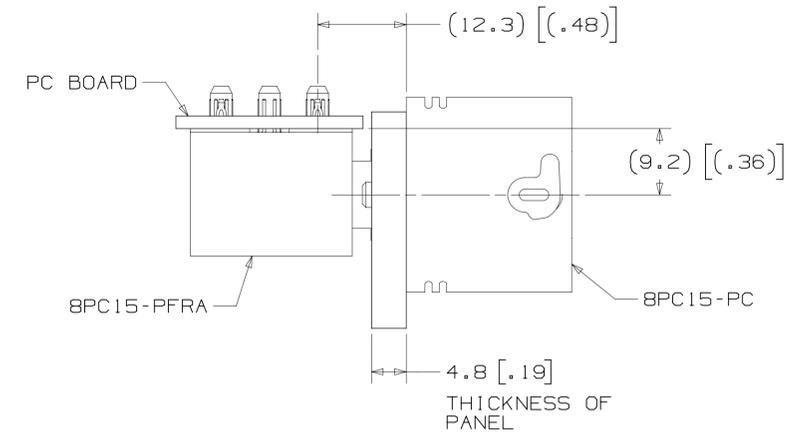
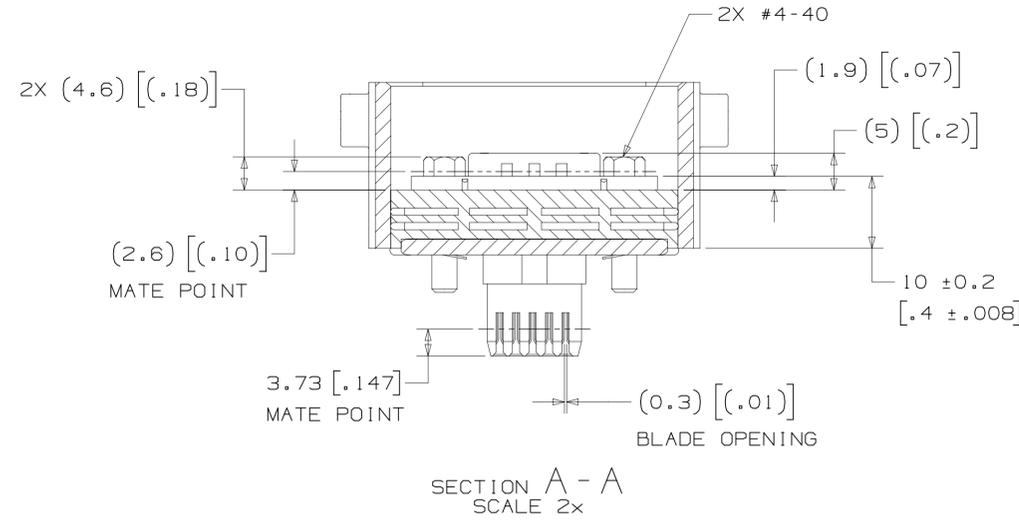
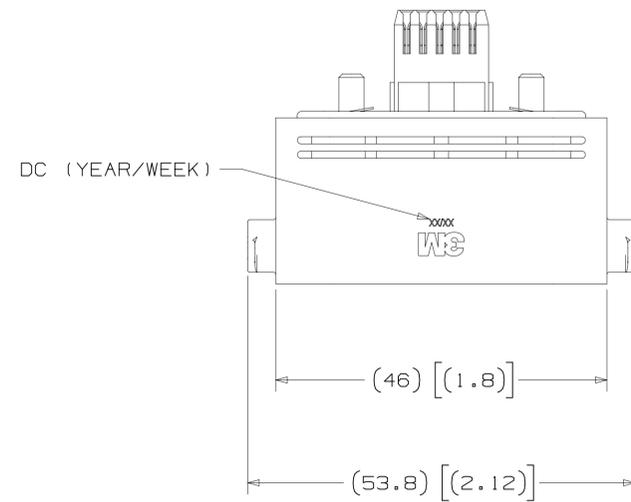
SERIES
 NOTE:
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THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS 0 ±.50 .00 ±.25 .000 ±.13				
MAX SURFACE ROUGHNESS	MARKED SURFACES	CAGE NUMBER MODEL DRAWING NO. 78-5100-2789-5 REV. A DET. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 3 OF 7				

78-5100-2789-5
DRAWING NUMBER

3M™ IP67 D-SUB, MALE/FEMALE CONNECTORS, 8PC15 SERIES
 SOLDER CUP, PRESS-FIT, RIGHT ANGLE, 2.29MM CENTERLINE



ORDERING INFORMATION

8PC15-PC

SERIES

NOTE: 1) TRAY PACKAGING

RECOMMENDED PANEL CUTOUT (FRONT MOUNT)

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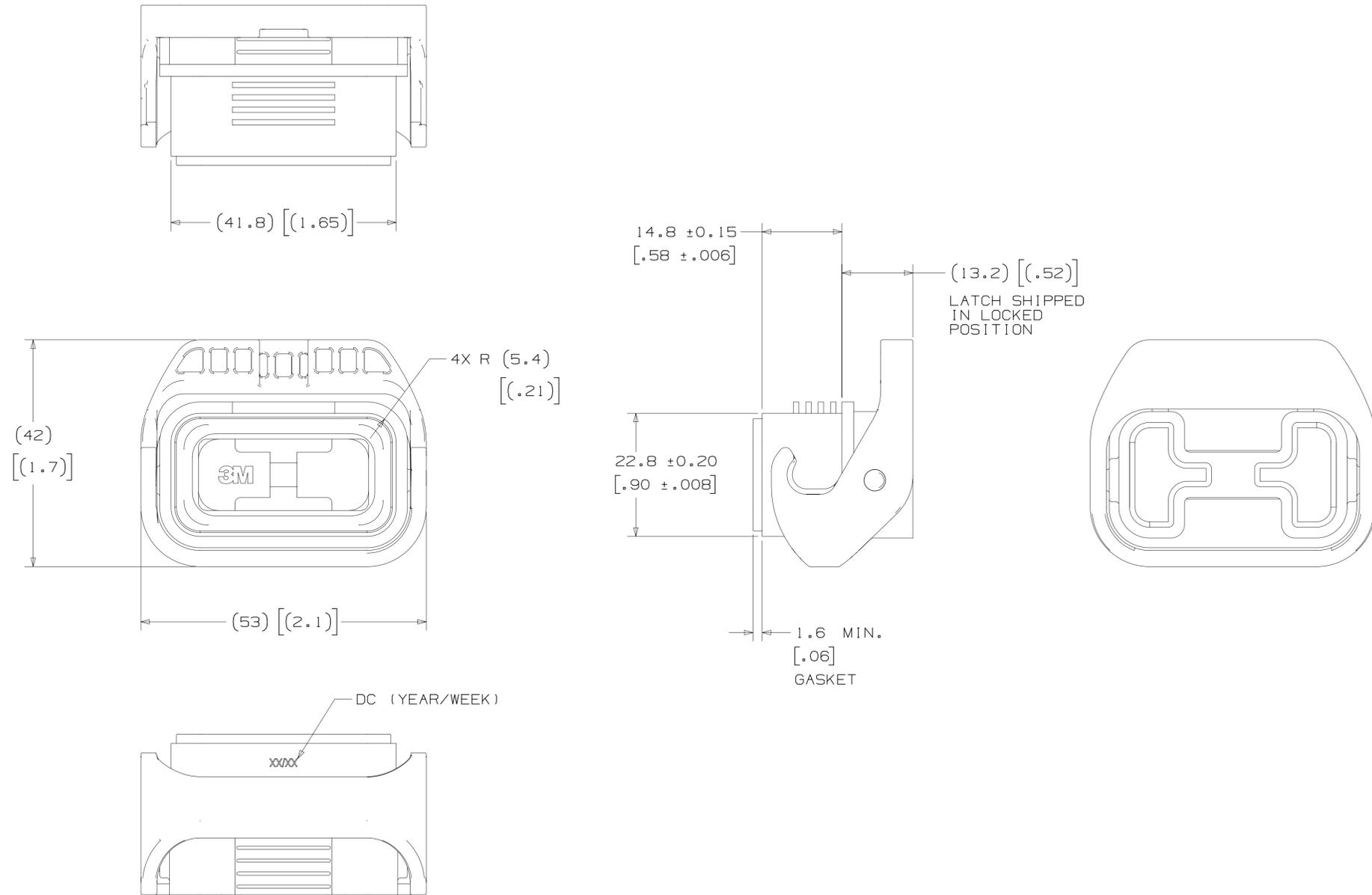
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CASTIGLIONE		J. GOERTZ				
DIVISION		EMSD				
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THIRD ANGLE PROJECTION		INCHES		MILLIMETERS		
INTERPRET PER ASME Y14.5 - 2018		0 ±.50		.00 ±.38		
MAX SURFACE ROUGHNESS		.00 ±.25		.000 ±.13		
MARKED ONLY		ANGLES				
CAGE NUMBER		DRAWING NO.		REV.		
D78-5100-2789-5		A				
MODEL		SHT 4 OF 7				

78-5100-2789-5

8 7 6 5 4 3 2 1

3M™ IP67 D-SUB, MALE/FEMALE CONNECTORS, 8PC15 SERIES
 SOLDER CUP, PRESS-FIT, RIGHT ANGLE, 2.29MM CENTERLINE



ORDERING INFORMATION
 8PC15-NAPC

SERIES
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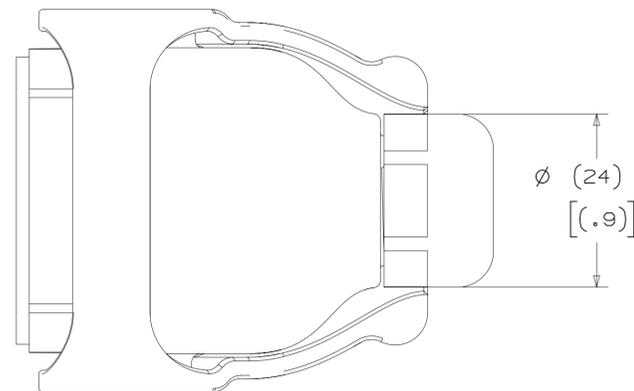
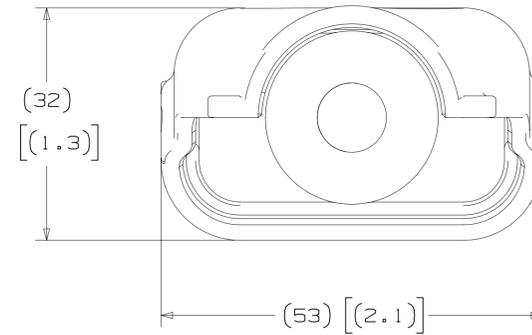
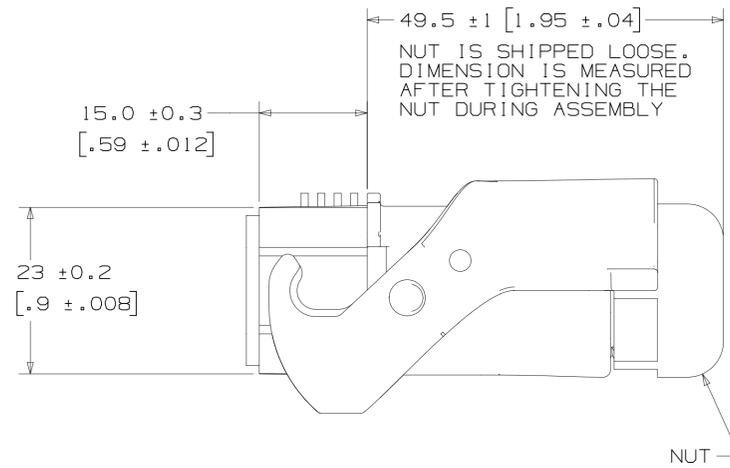
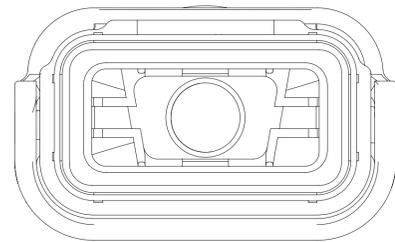
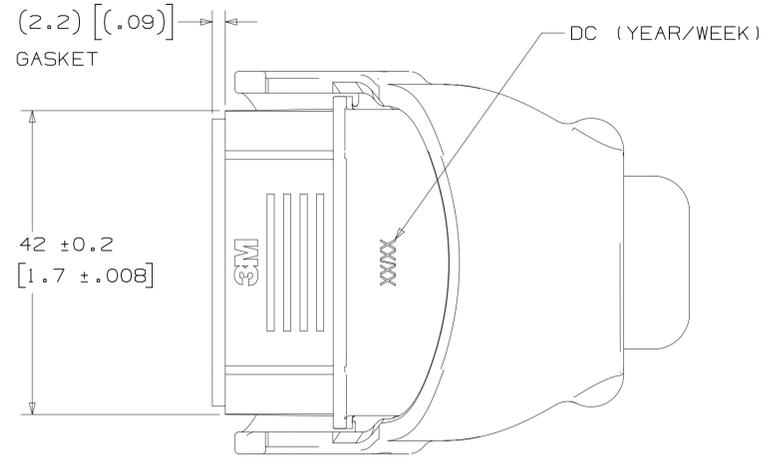
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THIRD ANGLE PROJECTION	INCHES	0 ± .00	TITLE			
INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS	.000 ± .0000	D-SUB, MALE/FEMALE, SOLDER-CUP, PRESS-FIT, RA			
MAX SURFACE ROUGHNESS	0 ± .50	.00 ± .38	CAGE NUMBER	SIZE	DRAWING NO.	REV.
MARKED ONLY	.00 ± .25	.000 ± .13	D	78-5100-2789-5	A	
	ANGLES		MODEL	DET	YES	NO
				SHT	5	OF 7

DRAWING NUMBER 78-5100-2789-5

REVISION A

3M™ IP67 D-SUB, MALE/FEMALE CONNECTORS, 8PC15 SERIES
 SOLDER CUP, PRESS-FIT, RIGHT ANGLE, 2.29MM CENTERLINE



ORDERING INFORMATION
 8PC15-ACPC

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CASTIGLIONE	AUG 17, 2023	MFG				
CHKD	DATE	APPRV	DATE	DATE	DATE	DATE
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THIRD ANGLE PROJECTION	INCHES	0 ±.00	TITLE D-SUB, MALE/FEMALE, SOLDER-CUP, PRESS-FIT, RA			
INTERPRET PER ASME Y14.5 - 2018	MILLIMETERS	0 ±.50	CAGE NUMBER D 78-5100-2789-5			
MAX SURFACE ROUGHNESS	0 ±.00	0 ±.38	DRAWING NO. 78-5100-2789-5			
MARKED SURFACES	0 ±.00	0 ±.25	REV. A			
MARKED ONLY	0 ±.00	0 ±.13	MODEL DET. [] YES [X] NO SHT 6 OF 7			

8 7 6 5 4 3 2 1

3M™ IP67 D-SUB, MALE/FEMALE CONNECTORS, 8PC15 SERIES
 SOLDER CUP, PRESS-FIT, RIGHT ANGLE, 2.29MM CENTERLINE

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		A	111930	AUG 30, 2023 PRODUCTION RELEASE	JNC	JG
DATE	DATE	DATE	DATE	DATE	DATE	DATE
CASTIGLIONE	AUG 17, 2023	MFG				
CHKD	DATE	APPRV	DATE	DATE	DATE	DATE
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		D		78-5100-2789-5	A	
		MODEL	DET	LISTS	YES	NO
						SHT 7 OF 7

DRAWING NUMBER 78-5100-2789-5

REVISION A