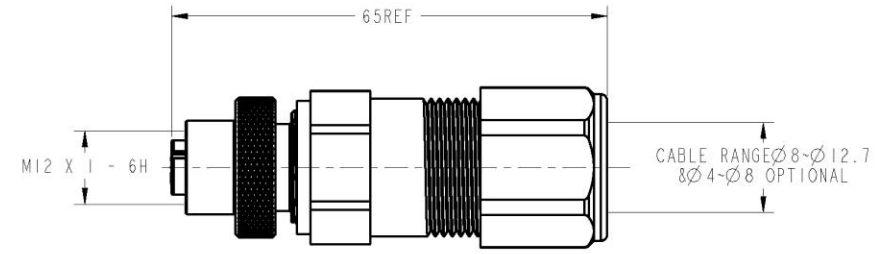
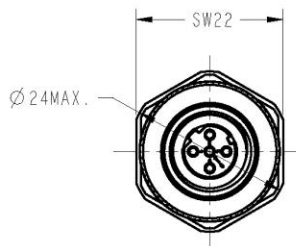


CUSTOMER DRAWING

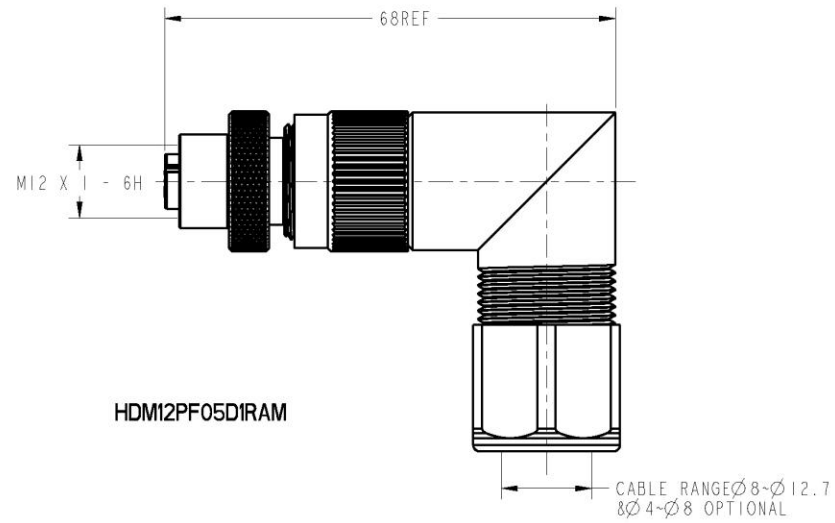
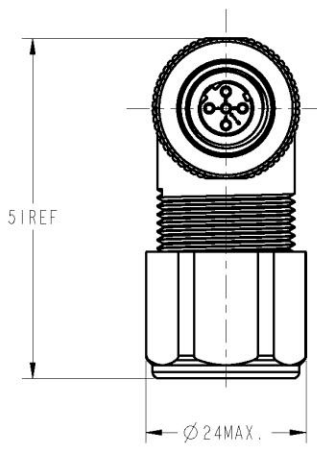
GENERAL TOLERANCE

DIM. RANGE	0.5 ~ 3	> 3 ~ 6	> 6 ~ 30	> 30 ~ 120	> 120 ~ 400
TOLERANCE	±0.1	±0.1	±0.2	±0.3	±0.5

HDM12 M		
REVISIONS		
LTR	DESCRIPTION	DATE
PA6	UPDATE DRAWING	2014-1-22



HDM12PF05D1STM



HDM12PF05D1RAM

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N/A
NEXT ASSEMBLY
METRIC DOCUMENT

PRO/ENGINEER INFORMATION
Pro/e Model Used:
Drawing Name:
HDM12 METAL BACKSHELL

UNLESS OTHERWISE SPECIFIED		SPECIFICATIONS		POS	QTY	PART NUMBER	DESCRIPTION	NOTE
LINEAR DIMENSIONS ARE IN: MILLIMETERS TOLERANCES: ANGLES: ±2° DEFAULT LINEAR TOLERANCES SEE TABLE		MATERIAL SPEC.		APPROVALS		PARTS LIST		
DIM. & TOL. PER ASME Y14.5M-1994; DRM PER MIL-DTL-31000; OTHER AMPHENOL STANDARDS: 9-9318		N/A		PREPARED BY: Show Chen CHECKED BY: Sam Xu DESIGNER: Ran Xiao DESIGNER'S ACTIVITY GROUP: C 3		DATE: 12-Jan-14		
LEGENDS: △=FLAG NOTE CALL OUT REFERENCE ONLY		PROCESS SPEC.		THIRD ANGLE PROJECTION		AMPHENOL INDUSTRIAL OPERATIONS Amphenol Technology(Zhuhai)Co.,Ltd No.63, Xinghen Road, Sanzao Town, Jinwan, Zhuhai, PRC		
		N/A				MAX M12 WITH METAL BACKSHELL NICKEL PLATING		
						SIZE: C	CAGE CODE: 77820	DOCUMENT NO: HDM12 M
						SCALE: 1:0	REV: PA6	SHEET 1 OF 7

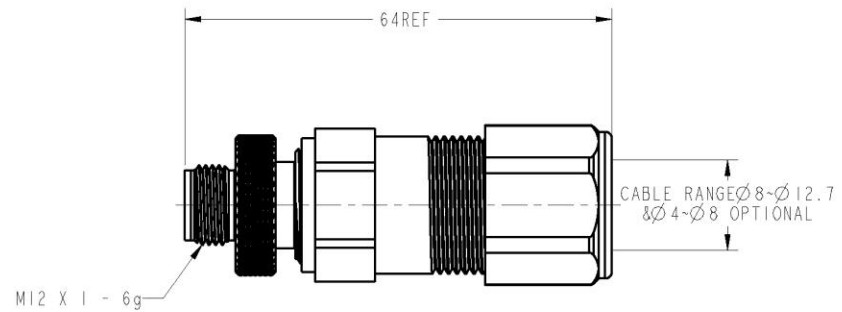
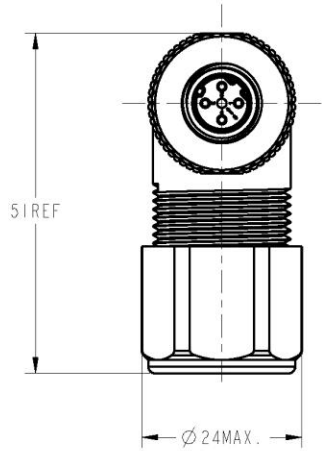
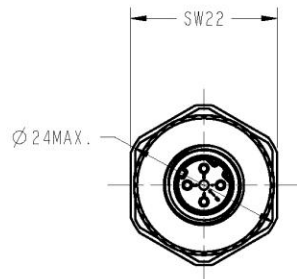
HDM12 M
SHEET 1 OF 7
PA6

HDM12 M
SHEET 1 OF 7
REV PA6

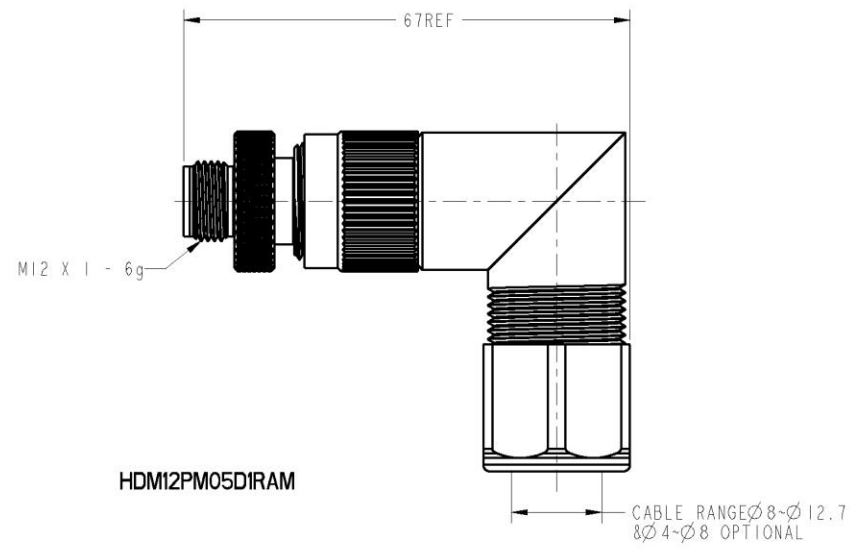
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DOCUMENT NO.	SHEET 2 OF 7	REV.
HDM12.M	PA6	



HDM12PM05D1STM



HDM12PM05D1RAM

SIZE	C	CAGE CODE	77820	DOCUMENT NO.	HDM12.M	REV.	PA6
SCALE	2.0	REF.		SHEET 2 OF 7			

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HDM12.M

SHEET 3 OF 7

REV.
PA6

4

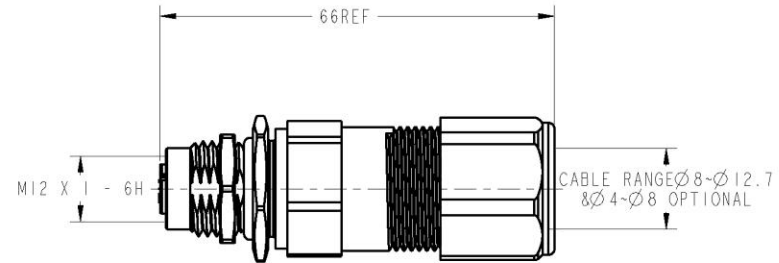
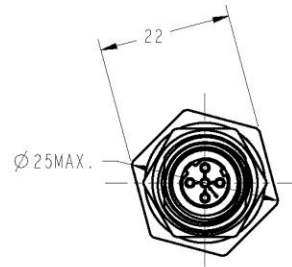
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2

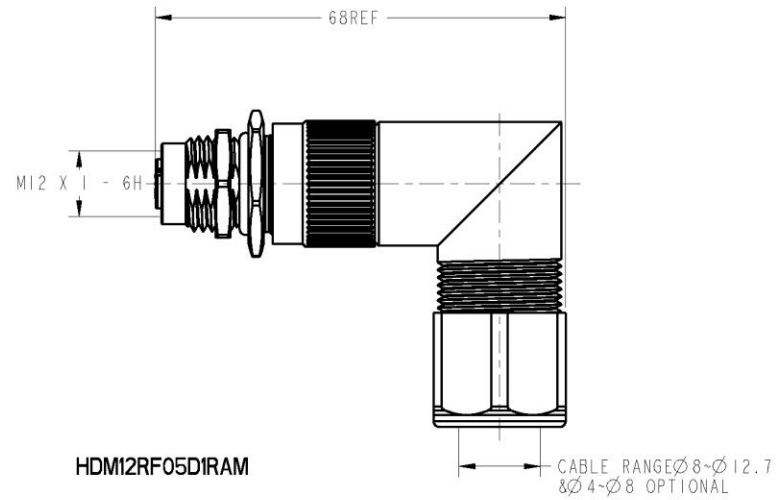
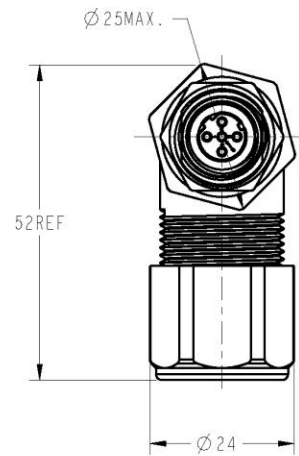
HDM12.M

SHEET 3 OF 7

HDM12.M

REV.
PA6

HDM12RF05D1STM



HDM12RF05D1RAM

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	HDM12.M	PA6
SCALE: 2.0	REF:	SHEET 3 OF 7	

3

2

1

4

D

C

B

A

HDM12.M

SHEET 3 OF 7

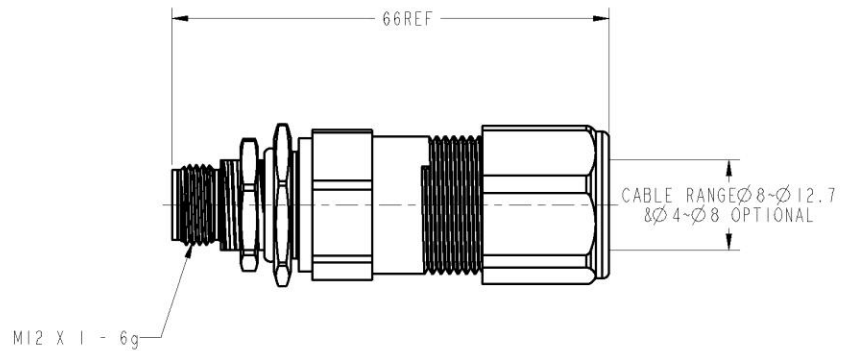
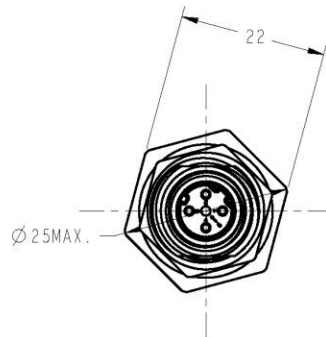
PA6

A

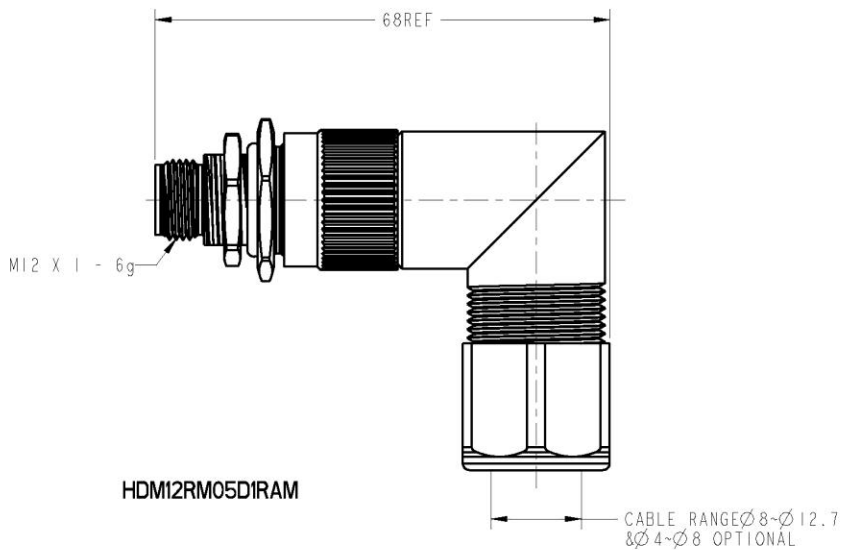
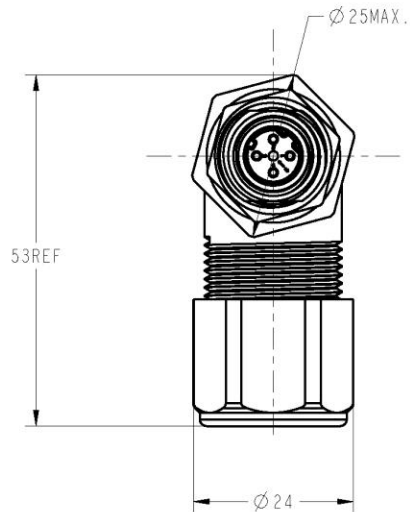
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DOCUMENT NO.	SHEET 4 OF 7	REV.
HDM12.M	PA6	



HDM12RM05D1STM



HDM12RM05D1RAM

SIZE	CABLE CODE	DOCUMENT NO.	REV.
C	77820	HDM12.M	PA6
SCALE: 2.0	REF:	SHEET 4 OF 7	

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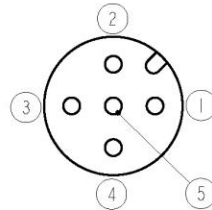
DOCUMENT NO.
HDM12.M

SHEET 5 OF 7
PA6

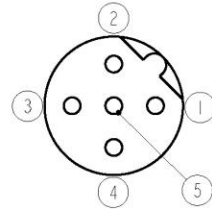
INSERT ARRANGEMENT AND CODING

CODING

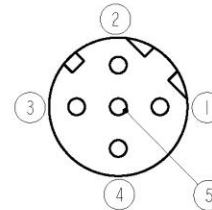
A - CODING
(5 POLE)



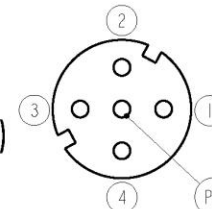
B - coding
(5 POLE)



D - coding
(5 POLE)

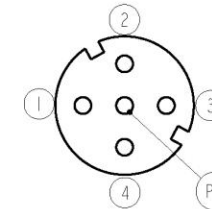
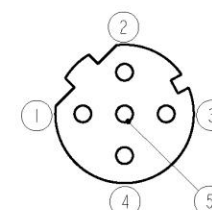
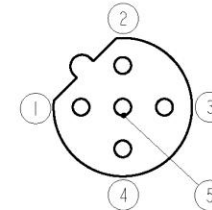
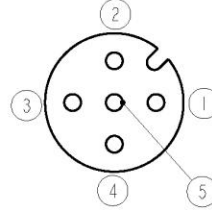


P - coding
(4 + PE POLE)

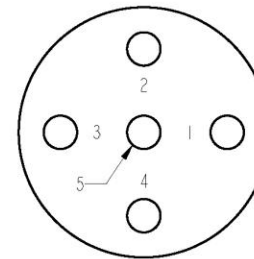
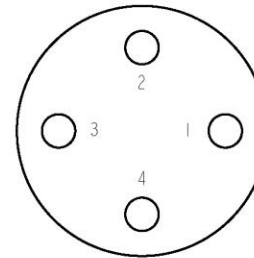
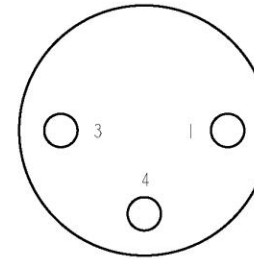


NOTES:

Female



INSERT ARRANGEMENT



4		3		2		HDM12.M REV. 00000000		SHEET 6 OF 7 PA6	
SPECIFICATION									
OPERATING VOLTAGE		5 PIN -60V AC/DC 3&4 PIN-250V AC/DC			IEC 60664				
CURRENT RATING		4A MAX.			IEC 60512 TEST 5B				
TEMPERATURE RATING		-55°C - +125°C -55°C - +150°C(WITH VITON SEALS)			SAE J2839,4.2.3.13				
DIELECTRIC WITHSTANDING VOLTAGE		1000V			IEC 60512, TEST 4A				
INSULATION RESISTANCE		>20 Megohms			SAE J2839, 4.2.3.3				
RATED IMPULSE VOLTAGE		1500V			IEC 60664-1				
CONTACT RESISTANCE		<10 mΩ			IEC 60512 TEST 2A				
CONTACT RESISTANCE		EMI PROTECTION							
VIBRATION, SINE		10 - 2000 Hz, 20g, <1 us			SAE J2839, 4.2.3.15				
SHOCK, HALF SINE		10 CYCLES, 50g, 11ms, <1 us			SAE J2839, 4.2.3.16				
TEMPERATURE LIFE		1000H AT 125°C ± 3°C			SAE J2839, 4.2.3.7				
DURABILITY		100 CYCLES MIN.			SAE J2839, 4.2.3.11				
SALT FOG		240H			SAE J2839, 4.2.3.12				
PROTECTION CLASS		IP67 OR ABOVE			IEC 60529				
WIRE GAUGE		0.5 mm ² (20AWG) OR 0.8 mm ² (18AWG) / 0.75 mm ²			SAE J1128 / ISO 6722				
CABLE OD.		Ø12.7 MAX.							
RECOMMENDED TORQUE		M12 THREAD, 0.8 - 1.0 Nm							
CONNECTOR RETENTION		444N MIN			SAE J2839,4.2.3.20				
CONTACT RETENTION		110 N MIN			SAE J2839,4.2.3.18				
PANEL THICKNESS		1-6 mm FOR HDM12RF							
		1-6 mm FOR HDM12RF							
SHELL PLATING		NICKEL PLATED							
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FORM 1 C-1-E-Rev.B									
HDM12.M SHEET 6 OF 7 PA6									
32									
77820 SCALE: 1:0									
HDM12.M SHEET 6 OF 7 PA6									
HDM12.M SHEET 6 OF 7 PA6									

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DOCUMENT NO.	SHEET 7 OF 7	REV.
HDM12.M	PA6	

HDM12 P M 05 D 1 ST M (V)

LETTER DENOTING THE
TYPE OF CONNECTOR

PLUG
RECEPTACLE

P
R

MALE
FEMALE

M
F

INSERT ARRANGEMENT

03: 3 POLE
04: 4 POLE
05: 5 POLE

VITON RUBBER SEALS
OMIT FOR STANDARD
RUBBER SEALS

METAL BACK SHELL M

STRAIGHT ST
RIGHT ANGLE RA
NO BACKSHELL XX

CONTACT FINISH:
GOLD 1
SILVER 2
NICKEL 4

CODING:
A-CODING A
B-CODING B
D-CODING D
P-CODING P

SIZE	CASE CODE	DOCUMENT NO.	REV.
C	77820	HDM12.M	PA6
SCALE: 1.0	REF:	SHEET 7 OF 7	