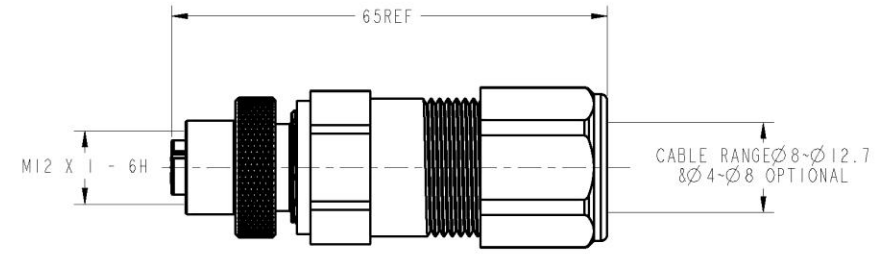
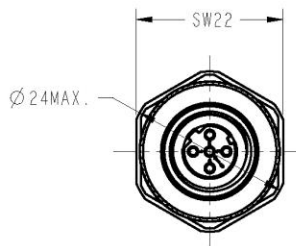


CUSTOMER DRAWING

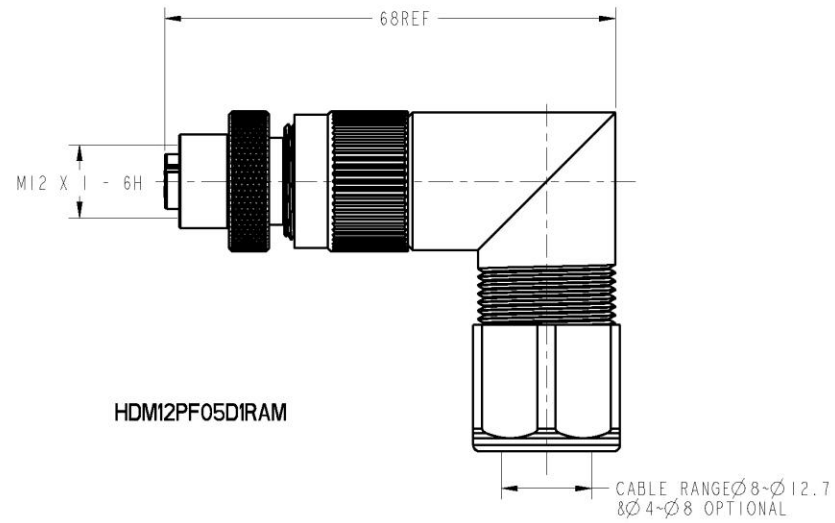
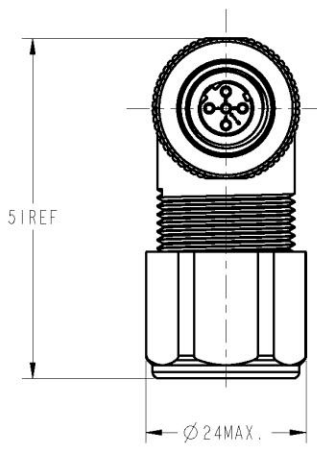
GENERAL TOLERANCE

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

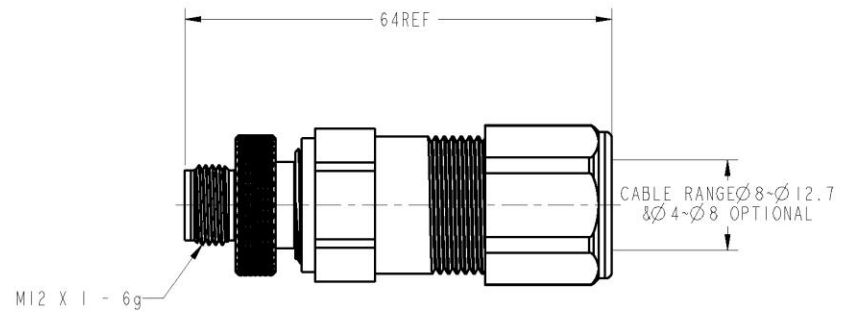
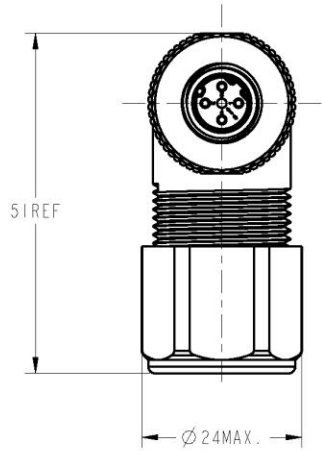
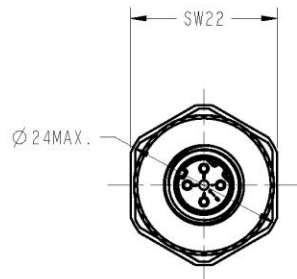
PRO/ENGINEER INFORMATION
Pro/e Model Used:
Drawing Name:
HDM12 METAL BACKSHELL

UNLESS OTHERWISE SPECIFIED		SPECIFICATIONS		POS	QTY	PART NUMBER	DESCRIPTION	NOTE
LINEAR DIMENSIONS ARE IN: MILLIMETERS TOLERANCES: ANGLES: ±2° DEFAULT LINEAR TOLERANCES SEE TABLE ----- DIM & TOL. PER ASME Y14.5M-1994; DRM PER MIL-DTL-31000; OTHER AMPHENOL STANDARDS: 9-9318		MATERIAL SPEC. N/A		APPROVALS PREPARED BY: Show Chen CHECKED BY: Sam Xu DESIGNER: Ran Xiao DESIGN REVIEW GROUP: C 3		DATE: 22-Jan-14	PARTS LIST AMPHENOL INDUSTRIAL OPERATIONS Amphenol Technology(Zhuhai)Co.,Ltd No.63, Xinghen Road, Sanzao Town, Jinwan, Zhuhai, PRC MAX M12 WITH METAL BACKSHELL NICKEL PLATING	REV. PA6
LEGENDS: △=FLAG NOTE CALL OUT REFERENCE ONLY		PROCESS SPEC. N/A		THIRD ANGLE PROJECTION 		SIZE: C CASE CODE: 77820		
						SCALE: 1:0	REF.	SHEET 1 OF 7

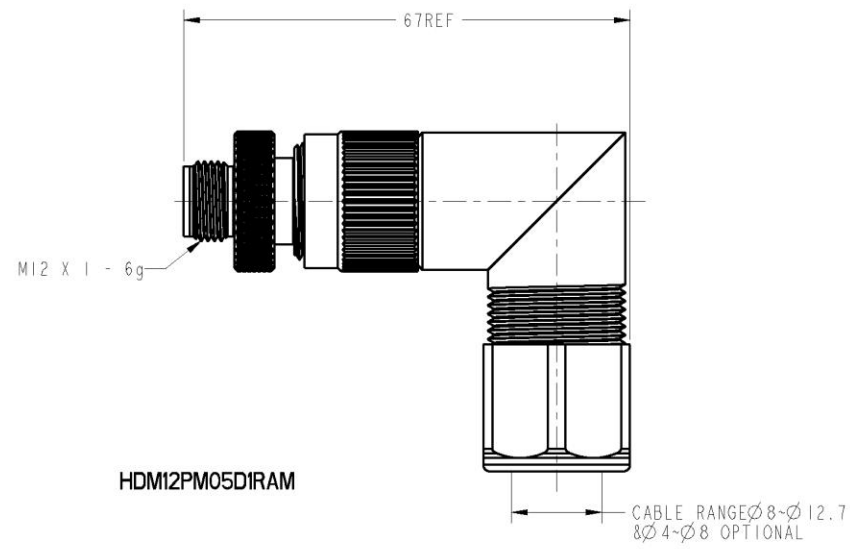
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DOCUMENT NO.	SHEET 2 OF 7	REV.
HDM12.M	PA6	

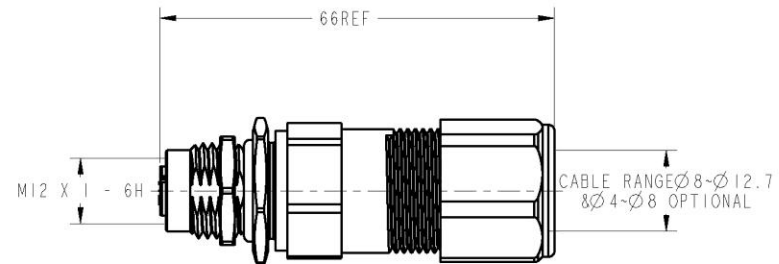
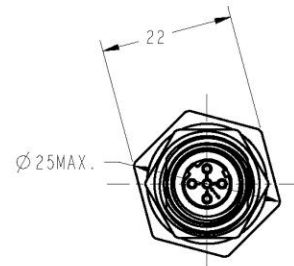


HDM12PM05D1STM

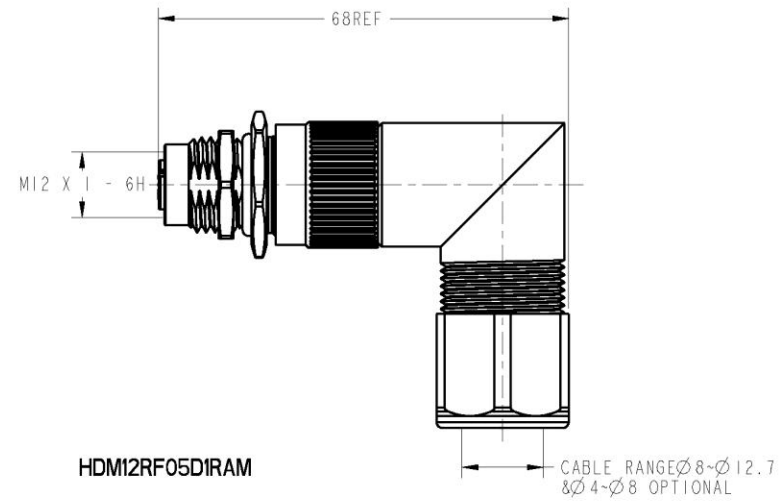
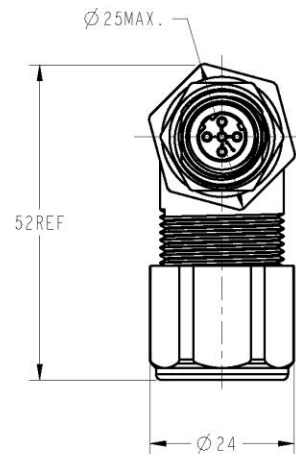


HDM12PM05D1RAM

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



HDM12RF05D1STM



HDM12RF05D1RAM

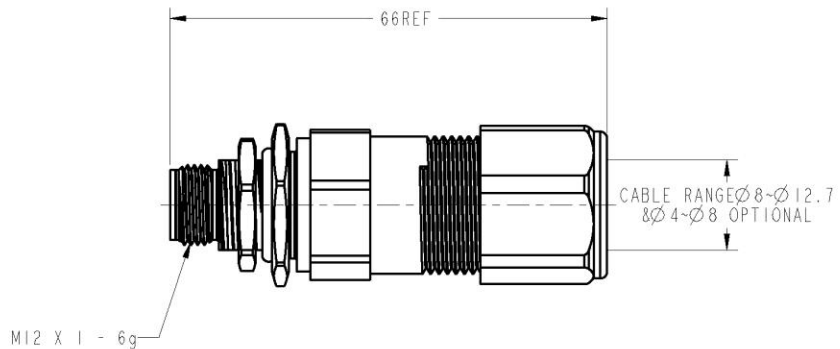
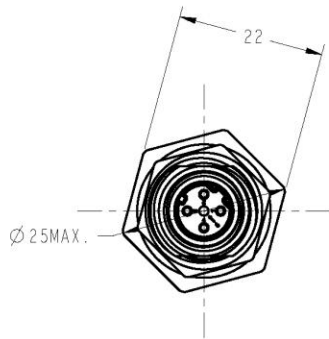
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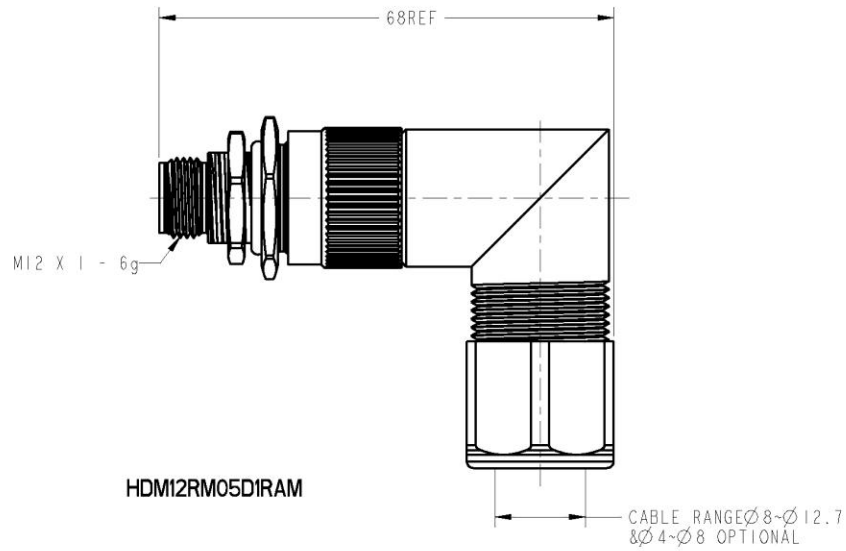
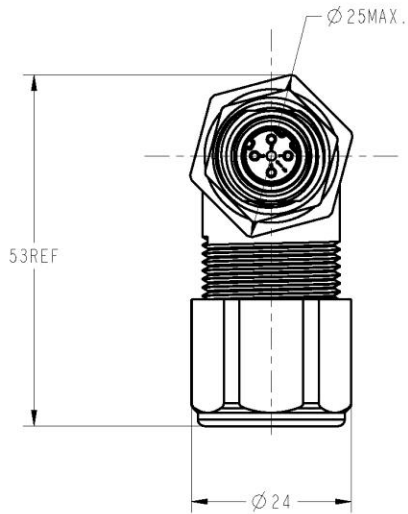
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DOCUMENT NO.	SHEET 4 OF 7	REV.
HDM12.M	PA6	



HDM12RM05D1STM



HDM12RM05D1RAM

SIZE	C	CAGE CODE	77820	DOCUMENT NO.	HDM12.M	REV.	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

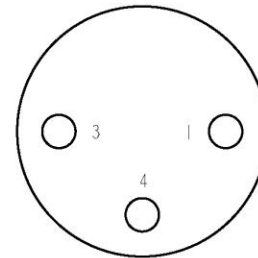
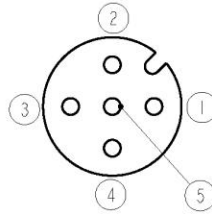
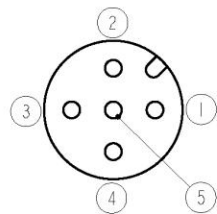
CODING

Male

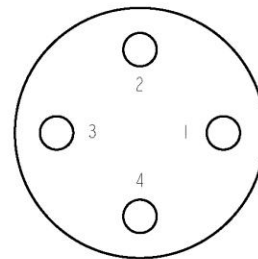
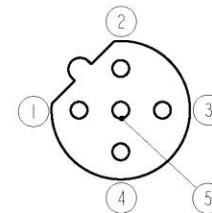
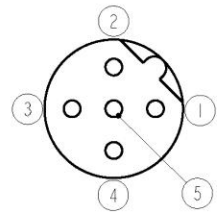
Female

INSERT ARRANGEMENT

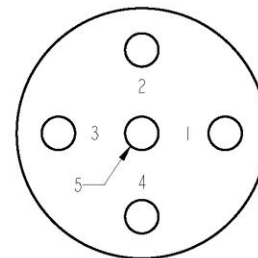
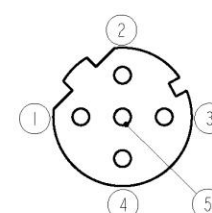
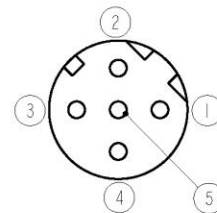
A - CODING
(5 POLE)



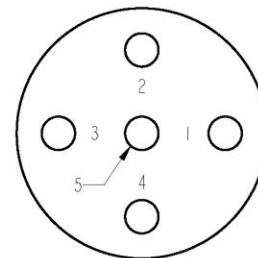
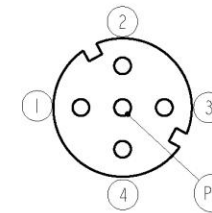
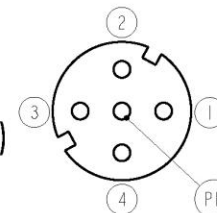
B - coding
(5 POLE)



D - coding
(5 POLE)



P - coding
(4 + PE POLE)



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DOCUMENT NO.
HDM12.M

SHEET 5 OF 7
PA6

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													
3													
2													
1													
HDM12.M		SHEET 6 OF 7		PA6		SIZE C		CASE CODE 77820		DOCUMENT NO. HDM12.M		REV. PA6	
SCALE: 1.0		REF:		SHEET 6 OF 7									

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

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