

4

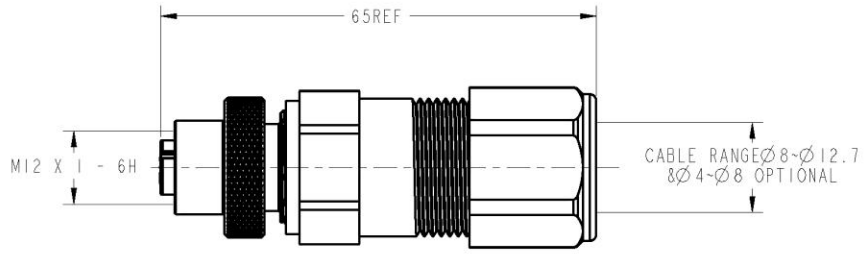
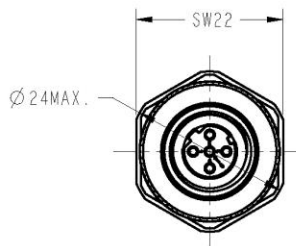
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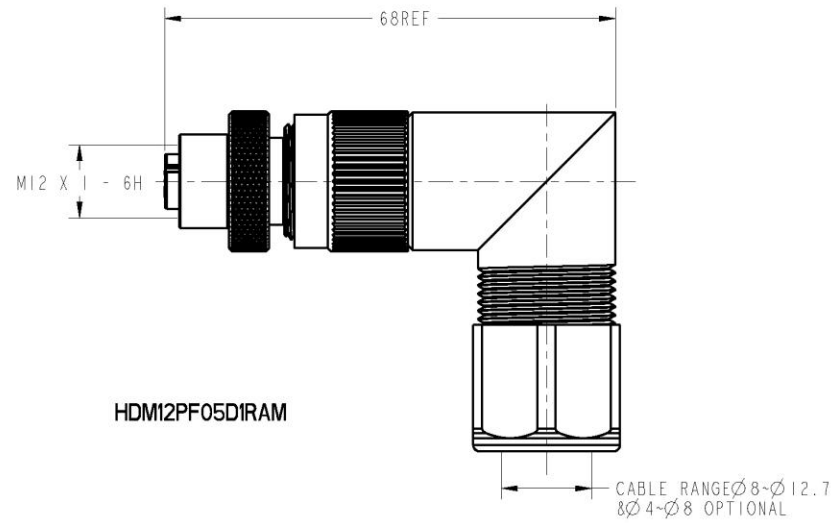
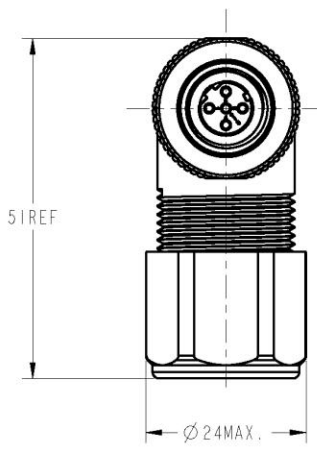
HDM12 M		REV. PA6
SHEET 1 OF 7		
REVISIONS		
LTR	DESCRIPTION	DATE
PA6	UPDATE DRAWING	2014-1-22

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



HDM12PF05D1STM



HDM12PF05DIRAM

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N/A	PRO/ENGINEER INFORMATION
NEXT ASSEMBLY	Pro/e Model Used:
METRIC DOCUMENT	Drawing Name:
	HDM12-METAL-BACKSHELL

UNLESS OTHERWISE SPECIFIED		SPECIFICATIONS		POS	QTY	PART NUMBER	DESCRIPTION	NOTE	
LINEAR DIMENSIONS ARE IN: MILLIMETERS		MATERIAL SPEC.		APPROVALS		PARTS LIST			
TOLERANCES: ANGLES= ±2° DEFAULT LINEAR TOLERANCES SEE TABLE		N/A		PREPARED BY: Show Chen	DATE: 22-Jun-14	AMPHENOL INDUSTRIAL OPERATIONS			
DIM. & TOL. PER ASME Y14.5M-1994; DRM PER MIL-DTL-31000; OTHER AMPHENOL STANDARDS: 9-9318		PROCESS SPEC.		DESIGNED BY: Sam Xu		Amphenol Technology(Zhuhai)Co.Ltd			
LEGENDS: =FLAG NOTE CALL OUT REFERENCE ONLY		N/A		DESIGN MANAGER: Ran Xiao		No.63, Xinghen Road, Sanzao Town, Jinwan, Zhuhai, PRC			
				DESIGN ACTIVITY GROUP: C 3		MAX M12 WITH METAL BACKSHELL NICKEL PLATING			
				THIRD ANGLE PROJECTION		SIZE: C	CAGE CODE: 77820	DOCUMENT NO.: HDM12 M	REV. PA6
						SCALE: 1:0	REF.	SHEET 1 OF 7	

HDM12 M SHEET 1 OF 7 PA6

C

B

A

D

C

REV. PA6 SHEET 1 OF 7

HDM12 M

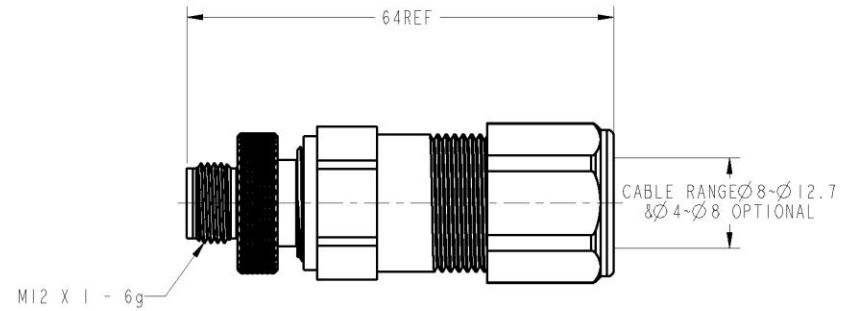
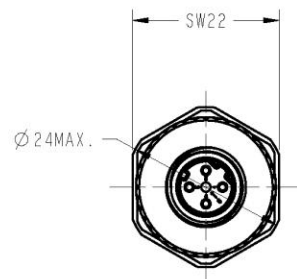
A

4

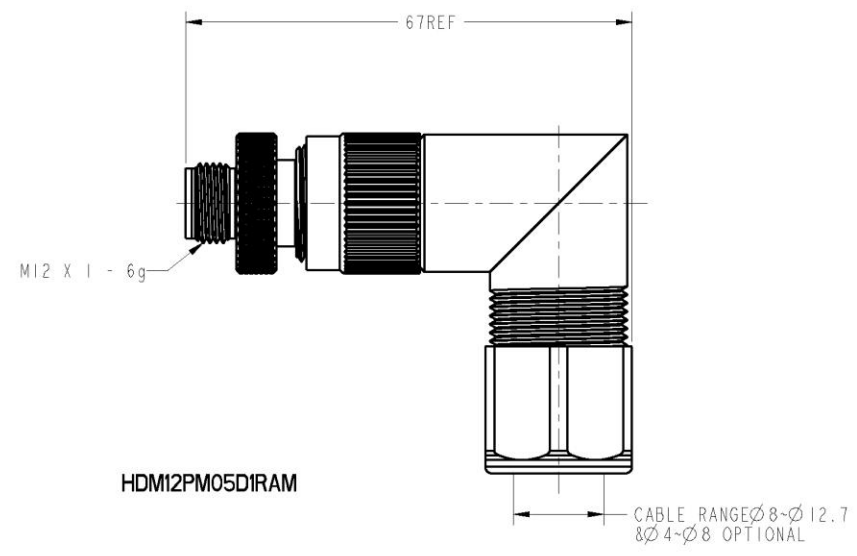
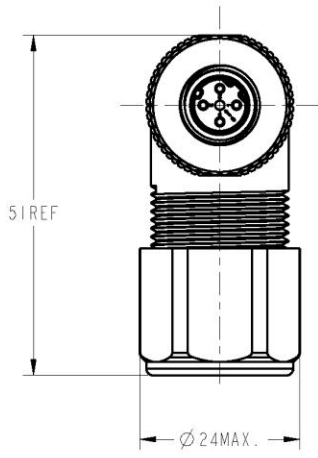
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2

1



HDM12PM05D1STM



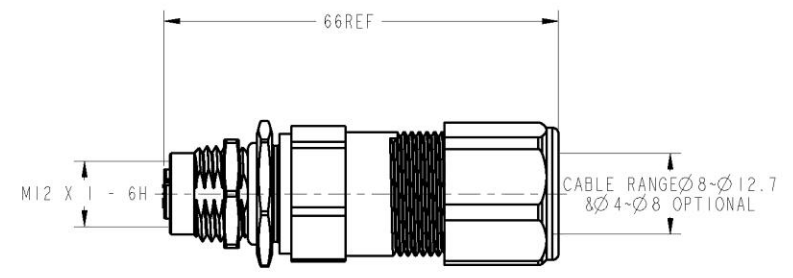
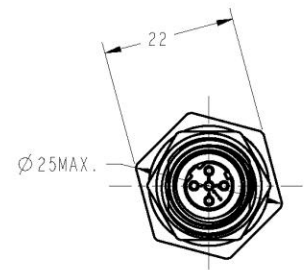
HDM12PM05D1RAM

NOTES:

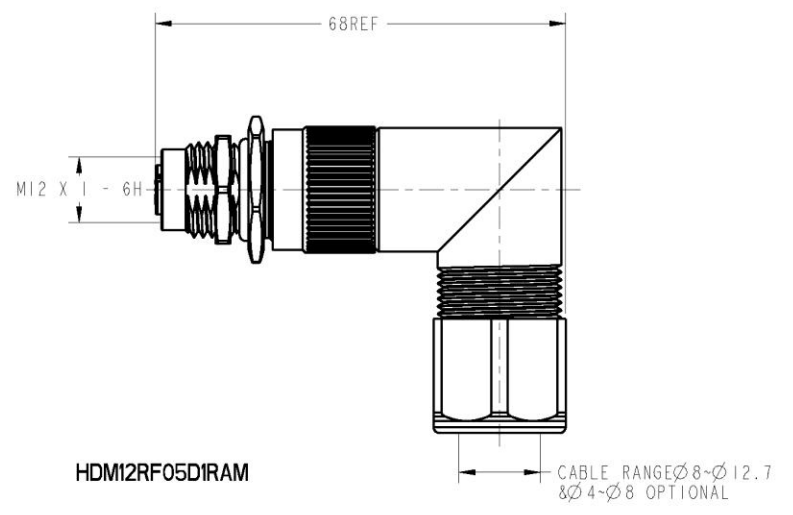
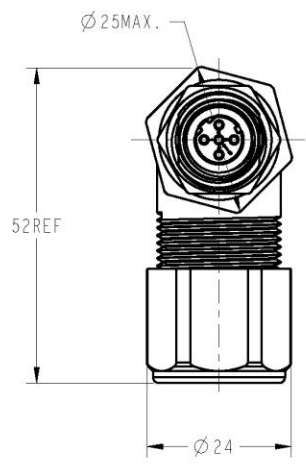
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DOCUMENT NO.	SHEET 2 OF 7	REV.
HDM12.M	PA6	

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

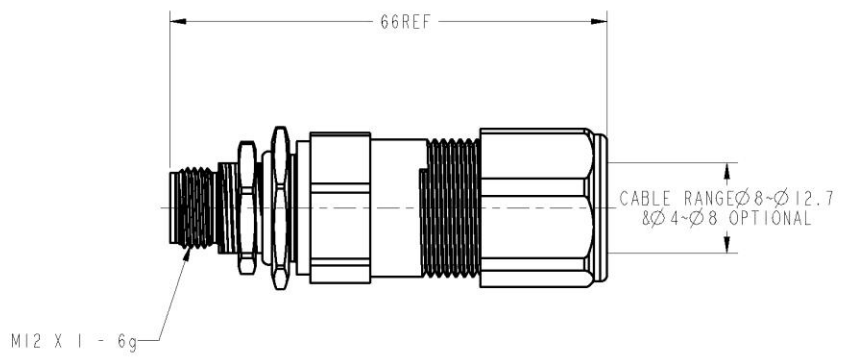
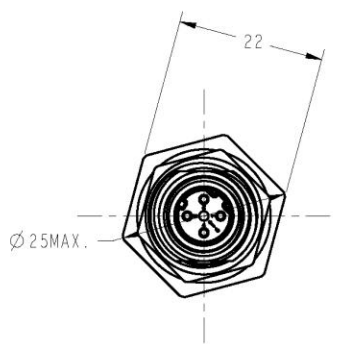


HDM12RF05D1STM

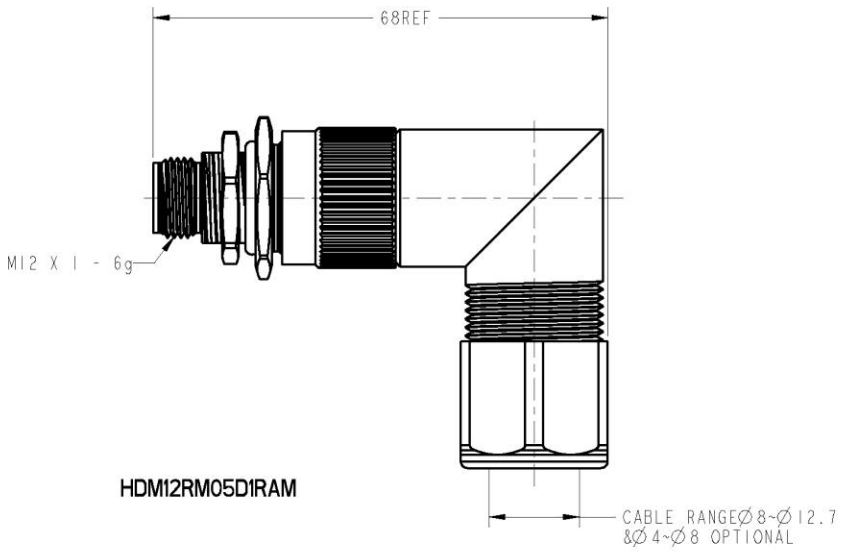
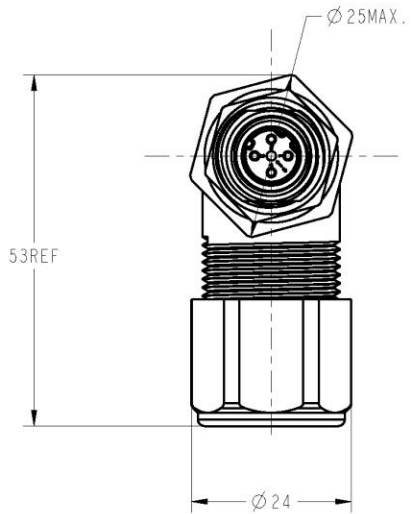


HDM12RF05D1RAM

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HDM12RM05D1STM



HDM12RM05D1RAM

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INSERT ARRANGEMENT AND CODING

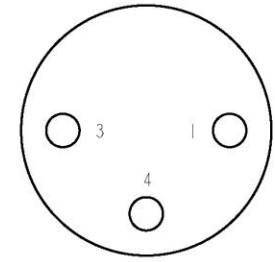
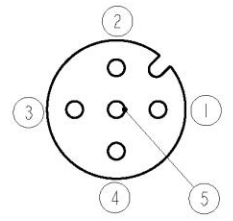
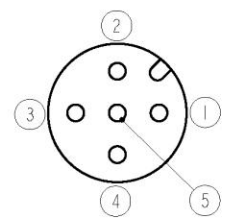
CODING

Male

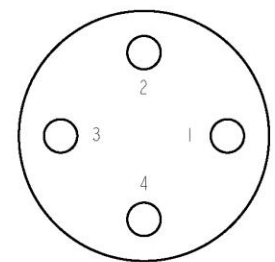
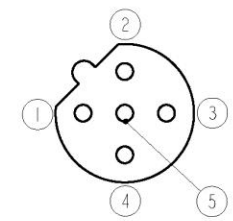
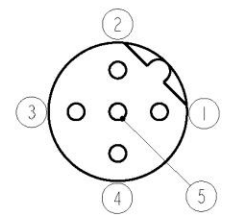
Female

INSERT ARRANGEMENT

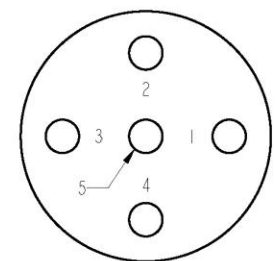
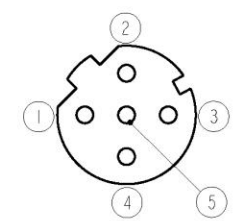
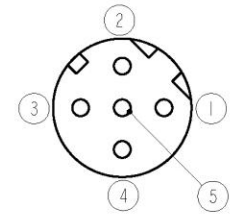
**A - CODING
(5 POLE)**



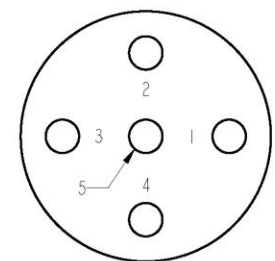
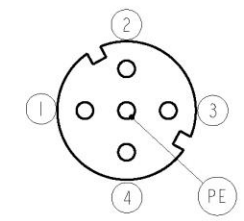
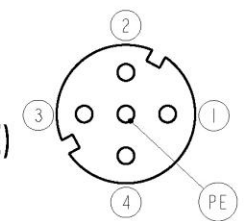
**B - coding
(5 POLE)**



**D - coding
(5 POLE)**



**P - coding
(4 + PE POLE)**



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HDM12.M SHEET 5 OF 7 PA6

DOCUMENT NO. HDM12.M SHEET 5 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.	∅12.7 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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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 P
RECEPTACLE R

MALE M
FEMALE 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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