



SPECIFICATION
MATERIAL
 Insulator: Thermal plastic, rated UL94V-0
 Contacts: Copper Alloy
 Contacts type: SOLDER type
 metal parts : steel with Ni plating
 Contacts plating
 Underplate: 50u"~100u" Nickel
 Contact area: 1u"~15u" Selective gold
 Solder tails area: 100u"~200u" Tin/Lead Free
General Data
 standard/Regulation: M12 connector IEC 61076-2-101
 coding: A-standard
 Number of position: 8
 AWG Singal line: 24
 Current rating: 2 Amps max.
 Insulation resistance: 100 Mohms min @ 500 VDC
 Degree of protection: IP 67
 Temperature range: -20°C TO +85°C
 Mating cycles: 100 insertions

Part no. 649 A E 08 M X S XX N A X 3
 1 2 3 4 5 6 7 8 9 10 11 12

- 1.SERIES NO.
649=M12 series
- 2. A=STANDARD
- 3.GREEN OPTION:
E=RoHS
- 4.CONTACT NUMBER:
08= 8PINS
- 5.CONTACT TYPE:
M=MALE
- 6.CONTACT AREA PLATING:
S=1u" GOLD
R=3u" GOLD
C=15u" GOLD
- 7.SOLDER TAILS AREA PLATING:
S=1u" GOLD
- 8.APPLY TYPE:
D3=panel mount M16
D4=Panel mount PG9
- 9.SHELL PLATING:
N=Ni
- 10.CODING:
A=A Coding
- 11.PACKING STYLE:
A=TRAY
B=TAPE REEL
- 12.INSULATOR COLOR:
3=Black

6	NAEFUMI07391B	Epoxy-resin B PART	Eopxy B part	1	
5	NAEFUMI07391A	Epoxy -resin A PART	Epoxy A part	1	
4	M2649AE1SSD303A	M12 male 8 pin machine pin contact	C2680 G/F Ni plating	8	
3	M1649AERCPD1301A	O-ring seal	Silicone	1	
2	M4649AE32ND4003A M4649AE32ND3003A	front metal body for PG9 front metal body for M16	steel with Ni plating	1	
1	M1649AE08MD23A1A	M12 -8pin Male front plastic body	PA66	1	
No.	P/N	Parts Name	Material	Q'ty	Remark

For SIP
 For cmk/cpk

UNLESS OTHERWISE SPECIFIED TOLERANCE	
ANG.	± 5°
0.	± 0.5
.0	± 0.3
.00	± 0.2
SCALE:	AS SHOWN
UNIT:	mm

OXOC
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DRAWN	PEARL	07/05/2018	DRAWN NAME:	M12- 8pin male conn. Pnael mount
CHECKED				Solder type M16/PG9
APPROVED			PRODUCT NO.	649AE08MXSXXNAX3
REV.			FILE NAME:	649AE08MXSD3NAX3

REV.	DESCRIPTION	DATE	SIZE	REV.	FILE NAME
1			A4	C	649AE08MXSD3NAX3