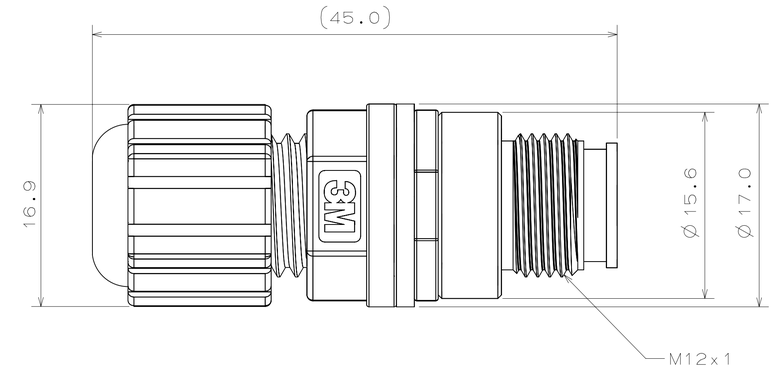
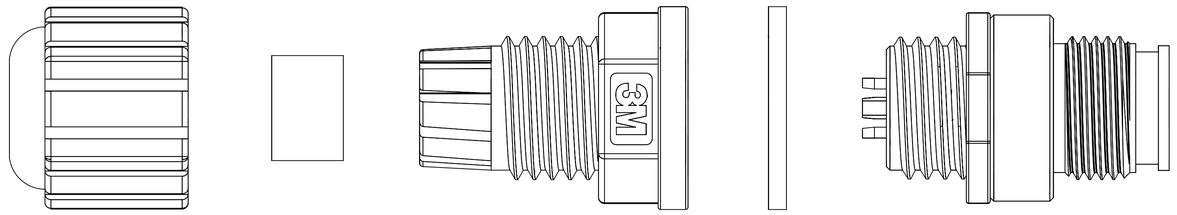
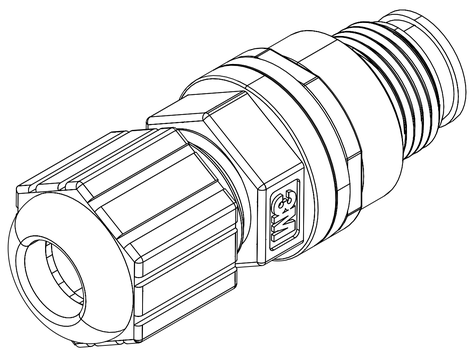
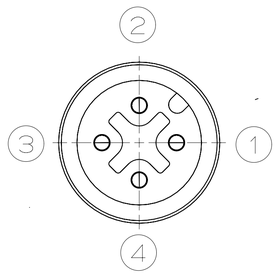
3M™ INDUSTRIAL M12 WM CONNECTOR

FOR 4POS, A-CODE, MALE, SOLDER TYPE









Pin Assignment

PERFORMANCE

1)MECHANICAL
POLARIZING METHOD:35N MIN.

CONTACT INSERTION FORCE:10N/pin MAX.
CONTACT WITHDRAWL FORCE:15N/pin MAX.

WATERPROOF:IP68(IN WATER 1mm DEPTH, 24H)

2)ELECTRICAL
CURRENT RATING:4.0A

VOLTAGE RATING:250VDC

WITHSTANDING VOLTAGE:1000VACrms

INSULATION RESISTANCE:1×10^{8} OHMS at 500VDC

CONTACT RESISTANCE:
10 MILLI OHM AT INITIAIL CONDITION
DELTA R 15 MILLI OHM MAX. AFTER
EVALUATION TEST BASED ON 78-5102-0150-8

)ENVIRONMENTAL
TEMPERATURE RATING:-25°C TO 85°C

NOTE
FOR LOW TEMPERATURE LIMIT:
EXCLUDING CABLE PERFORMANCE NO DEW CONDITION
FOR HIGH TEMPERATURE LIMIT:
INCLUDING TEMPERATURE RAISING BY CURRENT

NOTES

1 MATERIAL:
BODY:THERMOPLASTIC,UL 94V0
COVER:THERMOPLASTIC,UL 94V0
GLAND NUT:
THERMOPLASTIC, UL 94V0

CONTACT:COPPER ALLOY

2 PLATING
CONTACT AREA:0.2um GOLD MIN.

3 MATED WITH INDUSTRIAL M12
FEMALE CONNECTOR

4 COMPATIBLE CABLE:

1)WIRE
AWG 20 STRANDED
AWG 24 STRANDED

2)CABLE OUTER DIAMETER
4.0 to 6.5mm

5 RoHS COMPLIANT.
SEE THE REGULATORY
INFORMATION APPENDIX (RIA)
IN THE "RoHS COMPLIANCE"
SECTION OF
WWW.3MCONNECTORS.COM FOR
COMPLIANCE INFORMATION
(RIA E1 & C1 APPLY).

6 FOR PRODUCT SPECIFICATIONS
AND WARRANTY INFORMATION
SEE 3M 78-5102-0150-8

7 IN THE EVENT OF CONFLICT
BETWEEN THIS DATA AND
THAT CONTAINED IN THE
PRODUCT SPECIFICATION,
THE PRODUCT SPECIFICATION
TAKES PRECEDENT.

78-5100-2559-2 DATA NO. NUMBER
A REVISION

ORDERING INFORMATION M12 WM CONNECTOR

3N1 04-A000-S08 BF

PRODUCTION SERIES
3N1: INDUSTRIAL M12 WM
MALE CONNECTOR

CONTACT QUANTITY
04: 4 PIN

CODE
A: A CODE

WIRING METHOD
S: SOLDER TYPE

IP CLASS
8: IP68

PLATING SUFFIX
BF: CONTACT AREA 0.2μm GOLD

3M™ ELECTRONIC SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
VISIT http://www.3mconnectors.com

3M IS A TRADEMARK OF 3M COMPANY.
FOR TECHNICAL, SALES OR ORDERING INFORMATION
CALL YOUR LOCAL SALES REPRESENTATIVE

REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
A	43071	SEP 06,2012 PRODUCTION RELEASE	T.O	H.K

DESIGN REFERENCE | NEXT ASSEMBLY

DRFT T.OHTA DATE SEP 06,2012 MFG DATE
CHKD DATE APPV. H.KOSUGI DATE SEP 06,2012

DIVISION: Interconnect Solutions
DIVISION CODE: ISD
DO NOT SCALE DRAWING | SCALE —
TOLERANCES EXCEPT AS NOTED
THIRD ANGLE PROJECTION
INCHES .0 ± .00 ± .000 ± .0000 ±
INTERPRET PER ASME Y14.5 - 1994
MILLIMETERS 0 ± .0 ± .3 .00 ± .13 .000 ±
MAX SURFACE ROUGHNESS √ ☐ ALL SURFACES ☐ MARKED ONLY
ANGLES ±

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3M Center St. Paul, MN 55144

TITLE: INDUSTRIAL M12 WIRE MOUNT, FOR A-CODE, MALE, SOLDER TYPE

CAGE NUMBER | SIZE D | DRAWING NO. 78-5100-2559-2 | REV. A

MODEL | DET LISTS ☐ YES ☒ NO | SHT 1 OF 1