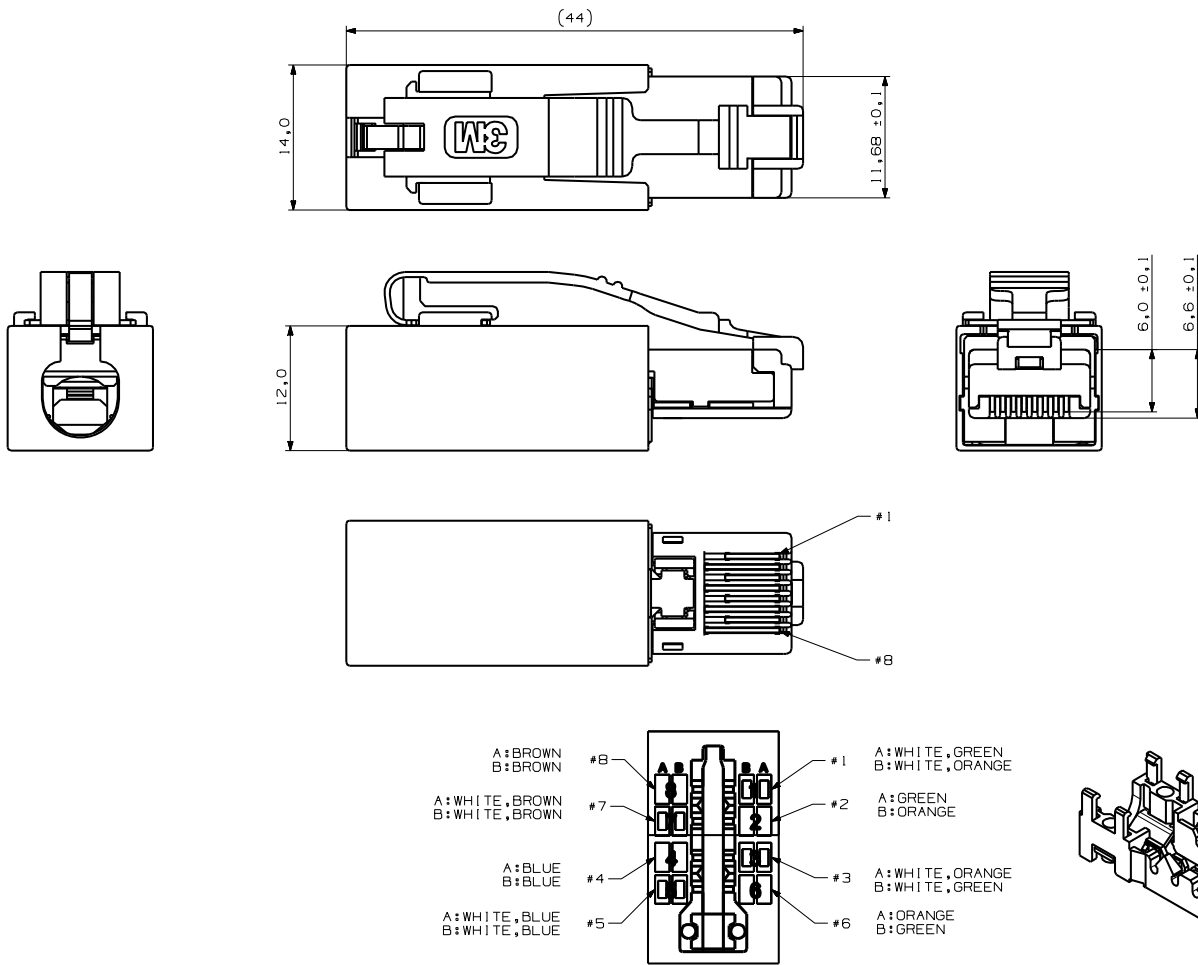


3M™ INDUSTRIAL RJ45 MODULAR PLUG  
FOR ENHANCED CATEGORY 5 CABLE, MODULAR, IDC, WIREMOUNT



## SIGNAL WIRING GUIDE ON SEAL (T568A/T568B)

## SIGNAL WIRING LAYOUT INFORMATION OF COVER MODULES

## ORDERING INFORMATION RJ45 MODULAR PLUG

PRODUCTION SERIES:  
3R1: INDUSTRIAL RJ45  
MODULAR PLUG

- PLATING SUFFIX  
CE: UNDER Ni PLATING  
CONTACT AREA: 1.27 $\mu$ M GOLD MIN.  
TERMINAL AREA: Sn

CONTACT QUANTITY:-  
08: 8 PIN

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

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FOR TECHNICAL, SALES OR ORDERING INFORMATION  
CALL YOUR LOCAL SALES REPRESENTATIVE

## PERFORMANCE

- 1) MECHANICAL  
INSERTION FORCE: 20N MAX.  
WITHDRAWAL FORCE: 20N MAX.  
(EXCLUDE LATCH MECHANISM)  
LATCH RETENTION FORCE: 49N MIN.
- 2) ELECTRICAL  
CURRENT RATING: 0.5A  
VOLTAGE RATING: 24V  
WITHSTANDING VOLTAGE: 100VAC rms  
INSULATION RESISTANCE:  $5 \times 10^8$  OHMS at 100VDC  
RETURN LOSS:  
TO MEET ENHANCED CATEGORY5 REQUIREMENT  
(EIA/TIA-568 B.2 CAT5)  
NEAR END CROSS TALK:  
TO MEET ENHANCED CATEGORY5 REQUIREMENT  
(EIA/TIA-568 B.2 CAT5)  
SHIELD RESISTANCE:  
100 MILLI OHM AT INITIAL CONDITION  
CONTACT RESISTANCE:  
100 MILLI OHM AT INITIAL CONDITION  
DELTA R 25 MILLI OHM MAX. AFTER  
EVALUATION TEST BAND ON 78-5102-0130-0

NOTE  
THE HIGH FREQ. ELECTRICAL PERFORMANCE  
OF CABLES DIFFERS ACCORDING TO FACTORS  
SUCH AS CABLE STRUCTURE, CABLE LENGTH,  
AND INSTALLATION LAYOUT.  
THEN TO CHECK THE HIGH FREQ. ELECTRICAL  
PERFORMANCE OF THE CABLE ASSEMBLY  
BEFORE INSTALLATION IS RECOMMENDED.

- 3) ENVIRONMENTAL  
TEMPERATURE RATING: -40°C TO 70°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: GLASS REINFORCED THERMOPLASTIC, UL 94VO  
CASE, COVER AND LATCH THERMOPLASTIC, UL 94VO  
CONTACT: COPPER ALLOY
- 2 PLATING  
UNDER NICKEL PLATING  
CONTACT AREA: 1.27mm GOLD MIN.  
TERMINAL AREA: Sn PLATING
- 3 MATED WITH INDUSTRIAL RJ45  
MODULAR JACK CONNECTOR
- 4 COMPATIBLE CABLE:  
ENHANCED CATEGORY 5 CABLE  
AS FOLLOWS
- 11 WIRE  
AWG 24 SOLID  
AWG 24 STRANDED (7 WIRES)  
AWG 26 STRANDED (7 WIRES)
- 21 CABLE GROUNDING  
BRAIDED SHIELD  
OR DRAIN WIRES
- 31 CABLE OUTER DIAMETER  
6.8mm MAX.
- 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 78-5102-0130-0
- 7 IN THE EVENT OF CONFLICT  
BETWEEN THIS DATA AND  
THAT CONTAINED IN THE  
PRODUCT SPECIFICATION,  
THE PRODUCT SPECIFICATION  
TAKES PRECEDENT.

[illegible]