

MRJ

IP67

Harsh Environment Modular Jack



Amphenol's MRJ series represents a unique and innovative RJ connector design. This design provides the ideal solution for Network data transfere in harsh and demanding environmental conditions. In addition, these connectors can be supplied with EMI and transient voltage protection capabilities. These RJs are water resistant (IP67) in both mated and unmated conditions. They are truly unshaken by hostile environmental elements.

Features

- Cat 5 Ethernet performance
- IP67 sealed in the mated and unmated conditions
- Meets military shock and vibration levels
- Available with optional integrated LEDs
- Available with various termination methods
- Available with EMI filtering and transient voltage protection
- All metal die cast outer shell construction
- Includes a feature that will not allow an RJ11 to enter.
- Will not allow an improperly terminated plug to enter.

Applications

- Industrial
- Military Communications
- Marine
- Mobile Communications
- Automotive

Technical Data

- Contact Resistance

30 milliohms maximum

- Insulation Resistance

50 megaohms minimum at 100 VDC

- Current Rating

1.5 Amps

Voltage rating

100 VDC at -25° C to +85° C

- Dielectric Withstanding Voltage

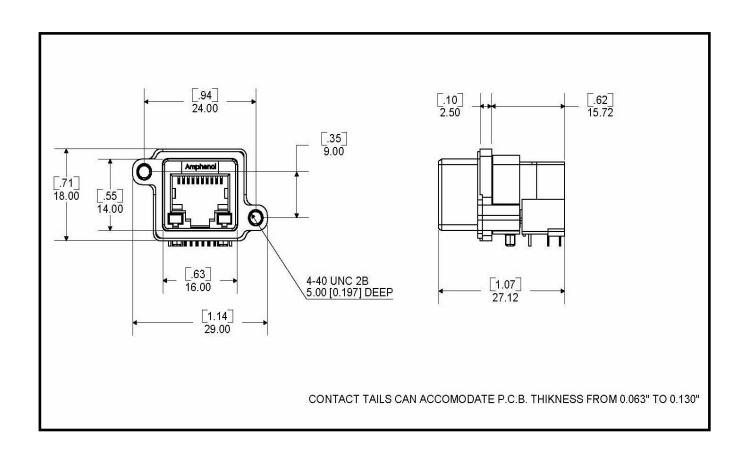
500 VAC, RMS, 60 Hz 1 minute

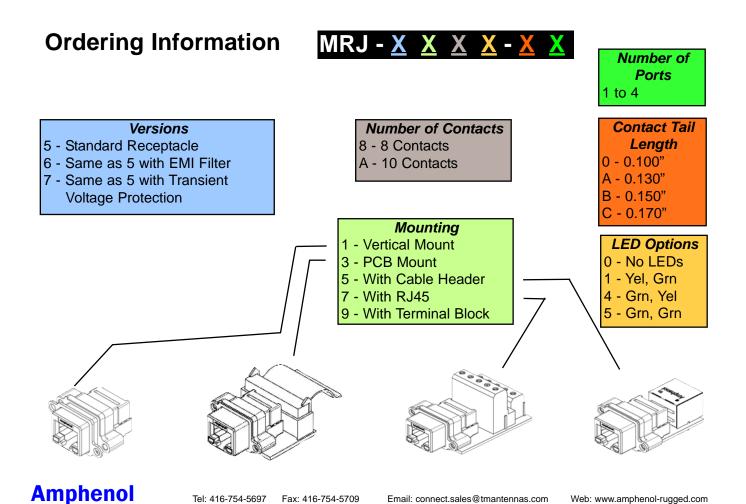
- Storage Temperature

-40° C to +105° C

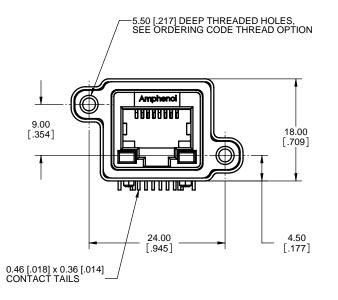
- Operating Temperature

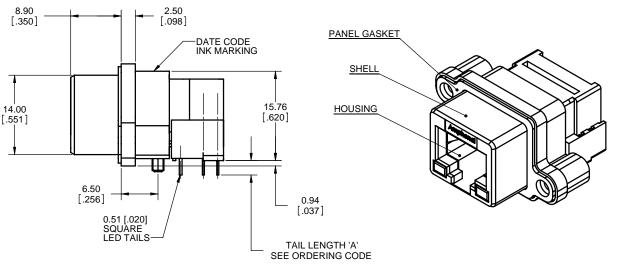
-40° C to +105° C





REVISIONS REV ECN, ERN NO DATE APPRD. PRODUCT DRAWING G JAN18/08 K.L.





NOTES:

MATERIAL:

ALL MATERIALS ARE ROHS COMPLIANT PER EU DIRECTIVE 2002/95/EC AND AMENDMENTS

CONTACTS - PHOSPHOR BRONZE WITH 50 MICROINCHES
(1.27 MICRONS) GOLD OVER 50 MICROINCHES (1.27 MICRONS) MINIMUM NICKEL ON THE MATING AREA AND MATTE TIN OVER NICKEL ON THE CONTACT TAILS.

INSERTS - ENGINEERING THERMOPLASTIC, UL FLAMMABILITY RATING 94V-0, REAR INSERTS: BLACK, FRONT INSERT: CLEAR

LED'S - EPOXY LENS, STEEL TAILS WITH TIN PLATING GASKET - SILICONE RUBBER

- ENVIRONMENTAL PERFORMANCE PER IEC 60529 CODE IP67 FOR SEAL BETWEEN MATING AREA AND PCB SIDE OF CONNECTOR. GASKET PROVIDES FOR SEAL TO INSIDE FACE OF PANEL.
- **CURRENT RATING: 1.5 AMPERES**
- CONTACT RESISTANCE: 30 MILLIOHMS MAXIMUM
- OPERATING TEMPERATURE: -40C TO +105C
- CONNECTOR SEAL TO WITHSTAND 34.5 KPa (5 PSI) PRESSURE AFTER TEMPERATURE EXPOSURE OF 150 °C FOR 180 SECONDS (CONNECTOR PRE-HEAT) AND 265 °C FOR 8 SECONDS (SOLDER DIP TAILS).
- RECOMMENDED TORQUE FOR PANEL MOUNT SCREWS: 0.45 TO 0.65 Nm (4.00 5.75 IN-LBS) FOR STEEL SCREWS WITH 3.00 (.118) THREAD ENGAGEMENT.



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	NEXT ASSY	USED ON	FINISH	REF. DIMENSIONS ARE IN CODE ID. NO.		C P-MRJ-53		XX-X C	G
				ENG. REL. NO.	vg. rel. no.			V V1 REV	
PROPRIETARY AND CONFIDENTIAL THIS DOCUMENT CONTAINS		l	TOLERANCING PER: MATERIAL	DWG. APPRD. A.GREEN	NOV11/04	SIZE DWG.			
			INTERPRET GEOMETRIC	Q. A. APPRD.		ANGLE, V	PTIONS, RoH	S COMPL	IANT
			TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ±	I. E. APPRD.			NITH LED, TA	IL LENGT	'H &
				CHECKED			8 & 10 POSITI		
				DESIGNED S.SEMENOV	NOV11/04	MPISE	RIES RUGGED	MODIII	ΔP
ľ				DRAWN S.SEMENOV	NOV11/04	Ampin			OIP.
			UNLESS OTHERWISE SPECIFIED:		DATE	Amphenol Canada Corp			orn

