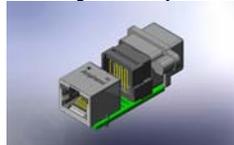


*Now you're connected!*

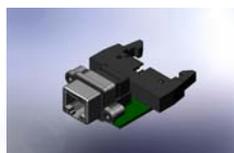
## MRJ CONNECTOR SERIES

### About Amphenol Commercial Products

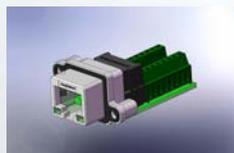
Amphenol's Commercial Connector Products are used in a variety of end user applications including Networking, Telecom, Server & Computer, Storage & HDD, Consumer Electronics and Entertainment, Professional Audio, Industrial & Military/Aerospace



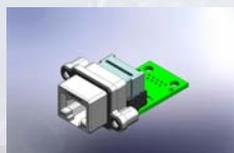
With matching RJ45



With Cable Header



With Terminal Block



With PCB for wiring



### Description

The design of Amphenol Canada's rugged RJ45 is ideal for harsh environments where Ethernet/IP protocol is used.

These connectors are available in 8 or 10 contact versions, right angle and vertical mount PCB with the option of adding LED's, EMI filtering and transient voltage protection. Both termination styles are available with a matching RJ45 connector, cable header and terminal block mounted on a PCB.

Other features include damage protection against accidental mating with an RJ11 or an improperly terminated RJ plug.

### Applications

#### MARKETS:

Industrial

Military

#### APPLICATIONS

Medical Equipment  
ATM Machines  
Lottery Terminals & Slot Machines  
GPS  
Positioning Equipment for Agriculture market  
Military Vehicles  
Military Radios  
Test Equipment  
Mobile Communication Systems  
Military Computers

Now you're connected!

#### RELATED PRODUCTS

Amphenol manufactures a line of rugged USB, rugged D-sub and rugged bulkhead adapters, all meeting IP67. Contact your local Amphenol representative for details.



#### Electrical Properties

Current Rating: 1.5 Amperes  
Contact Resistance: 30 milliohms maximum  
Insulation Resistance: 500 Mega ohm minimum  
DWV: 1000/1500 V AC @ sea level

#### Environmental Properties

RoHS Compliant  
Operating Temperature: -40°C to +105°C  
Thermal Shock: 25 cycles @ -40° C to +70° C  
Humidity: Per EIC512-6 / EIA364-11A

#### Mechanical & Material Properties

Shell: Die-cast Zinc, Nickel Plated  
Housing: High Temperature Thermoplastic UL94V0, Black  
Front Housing: Clear Polycarbonate  
Contacts: Phosphor Bronze, 50 u" (1.27 microns) Gold over Nickel  
Physical Shock: Per EIA 364-27 Condition H (11 ms 30G)  
Vibration: Per EIA 364-28 per Condition 5, Letter A

#### Available Documents

Drawing Number: P-MRJ-5XXX-XX  
P-MRJ-6XXX-XX  
P-MRJ-7XXX-XX

QTR9300376

#### Part Number

MRJ-5XXX-XX  
MRJ-6XXX-XX  
MRJ-7XXX-XX

**Amphenol**

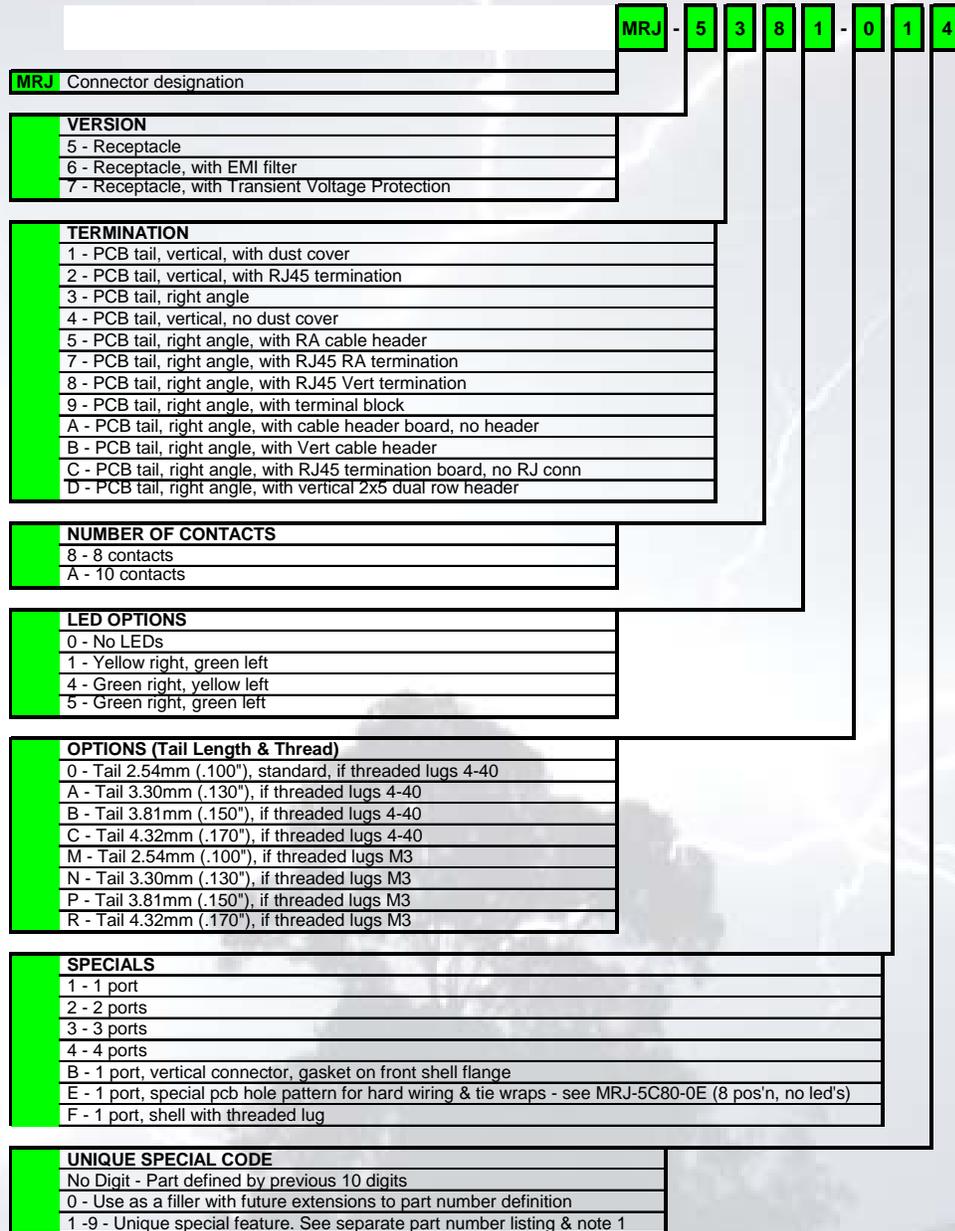
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Fax: 416-754-8668

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Now you're connected!

**MRJ CONNECTOR PRODUCT NUMBERING SYSTEM**



**Notes**

1) Unique special code relates to total part number. Code 4, for example, may have different meanings depending upon the product.

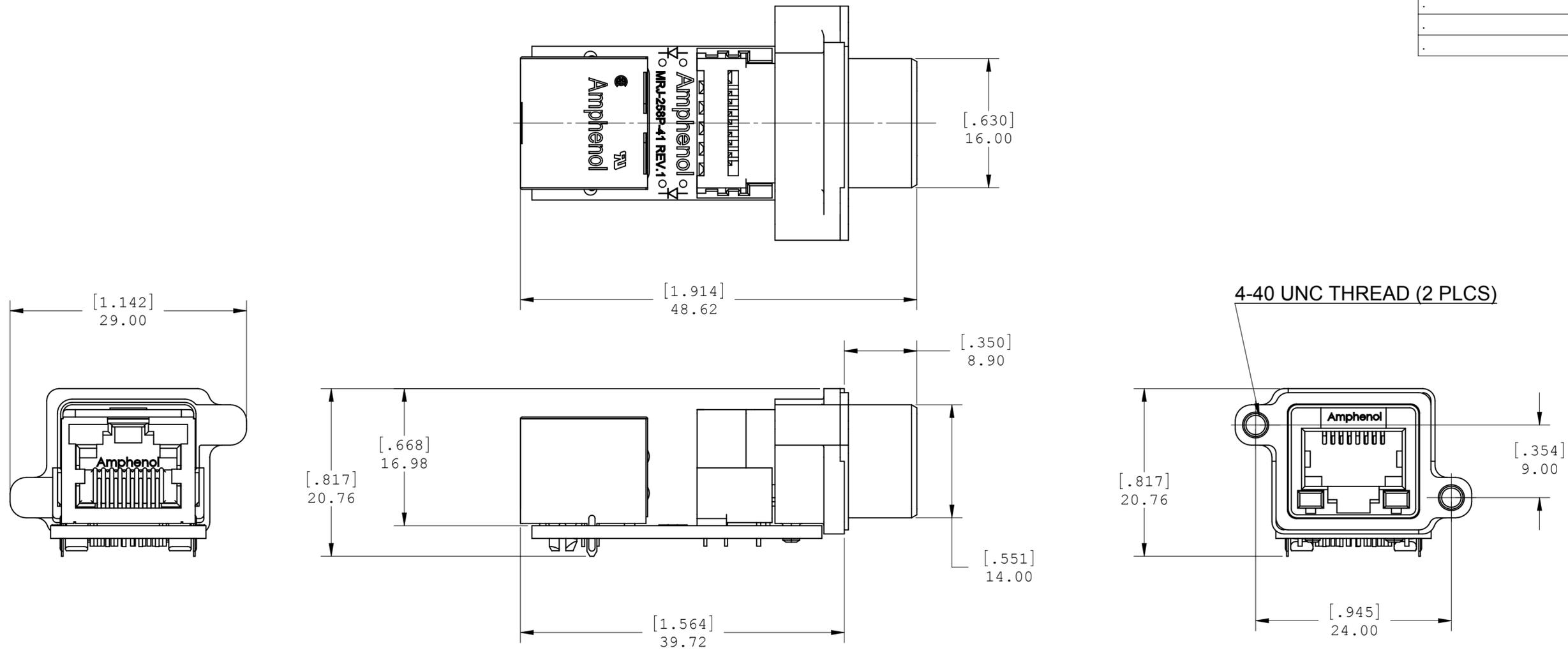


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[www.amphenolcanada.com](http://www.amphenolcanada.com) or [www.amphenolacp.com](http://www.amphenolacp.com)

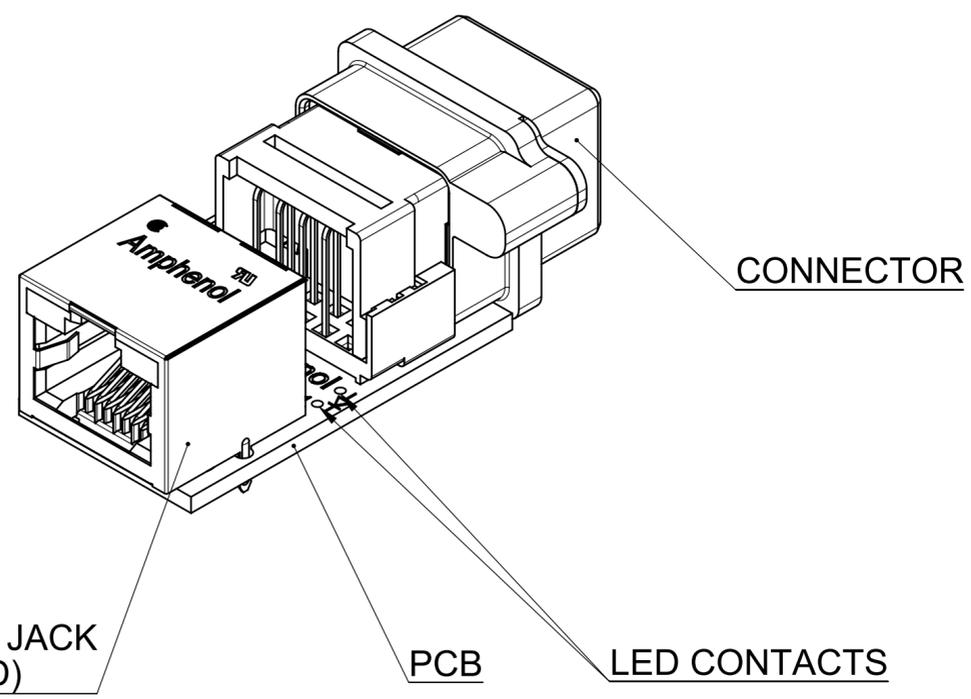
REV	DESCRIP	DATE	APPRVD



4-40 UNC THREAD (2 PLCS)

**NOTES:**

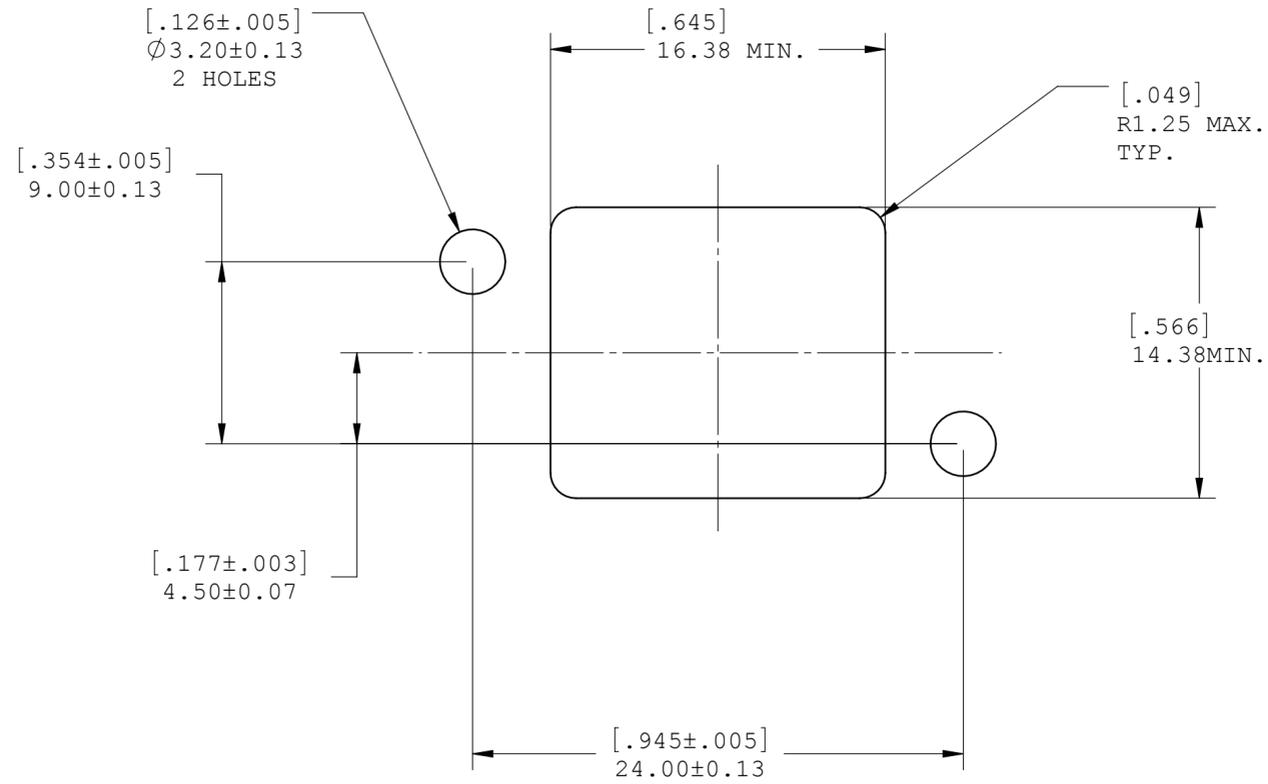
- COMPONENTS:
  - CONNECTOR: MRJ-538X-0X, RECEPTACLE, 8 CONTACTS.
  - TERMINATION: RJ45, PLUG.
- FEATURE: SEALED CONNECTOR IN THE MATED AND UNMATED CONDITIONS.
- OPERATING TEMPERATURE: -40°C TO +105°C.
- CONNECTOR MEETS CATEGORY CAT5E REQUIREMENTS DESCRIBED IN TIA/EIA-568-B.1 PART 2.
- ENVIRONMENT PERFORMANCE: IP67.
- ALL COMPONENTS AND MATERIALS USED FOR CONNECTOR AND PACKAGING ARE ROHS COMPLIANT PER EU DIRECTIVE 2002/95/EC AND AMENDMENTS.



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETER TOLERANCES ARE:  DECIMALS                      ANGLES .XX ± .10                        ± 1° .X ± .25	APPROVALS	DATE	<b>Amphenol Canada Corp.</b>		
	DRAWN S.SEMENOV	JAN01/07			
MATERIAL AND FINISH	DESIGNED S.SEMENOV	JAN01/07	TITLE  <b>MRJ CONNECTOR WITH RJ45 TERMINATION</b>		
	CHECKED				
	QA APP'D				
REF.	IE APP'D		SIZE C	DWG. NO. P-MRJ-578X-X1	REV. 2A
CODE IDENT. NO.	DWG APP'D A.GREEN	JAN01/07	SCALE 1:0.4	PROJECT MRJ	SHEET 1 OF 2

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REV	DESCRIPT	DATE	APPRVD



**RECOMMENDED PANEL CUTOUT**



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETER TOLERANCES ARE:  DECIMALS                      ANGLES .XX ± .10                      ± 1° .X ± .25	APPROVALS	DATE	<b>Amphenol Canada Corp.</b>					
	DRAWN S.SEMENOV	JAN01/07				TITLE  <b>MRJ CONNECTOR          WITH RJ45 TERMINATION</b>		
	DESIGNED S.SEMENOV	JAN01/07	SIZE C	DWG. NO. P-MRJ-578X-X1	REV. 2A			
	CHECKED		SCALE <b>4:1</b>					
	QA APP'D							
IE APP'D		SHEET <b>2 OF 2</b>						
REF.	DWG APP'D A.GREEN				JAN01/07			
CODE IDENT. NO.								

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