

Product Update

Harsh Environment RJ45

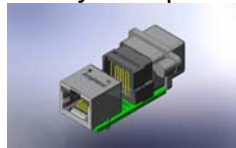
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MRJ CONNECTOR SERIES

About Amphenol Commercial Products

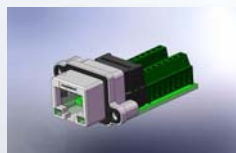
Amphenol's Commercial Connector Products are used in a variety of end user applications including Networking, Telecom, Server & Computer, Storage & HDD, Consumer Electronics and Entertainment, Professional Audio, Industrial & Military/Aerospace



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

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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

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MRJ CONNECTOR PRODUCT NUMBERING SYSTEM

	MRJ	5	3	8	1	0	1	4
MRJ	Connector designation							
VERSION								
	5 - Receptacle							
	6 - Receptacle, with EMI filter							
	7 - Receptacle, with Transient Voltage Protection							
TERMINATION								
	1 - PCB tail, vertical, with dust cover							
	2 - PCB tail, vertical, with RJ45 termination							
	3 - PCB tail, right angle							
	4 - PCB tail, vertical, no dust cover							
	5 - PCB tail, right angle, with RA cable header							
	7 - PCB tail, right angle, with RJ45 RA termination							
	8 - PCB tail, right angle, with RJ45 Vert termination							
	9 - PCB tail, right angle, with terminal block							
	A - PCB tail, right angle, with cable header board, no header							
	B - PCB tail, right angle, with Vert cable header							
	C - PCB tail, right angle, with RJ45 termination board, no RJ conn							
	D - PCB tail, right angle, with vertical 2x5 dual row header							
NUMBER OF CONTACTS								
	8 - 8 contacts							
	A - 10 contacts							
LED OPTIONS								
	0 - No LEDs							
	1 - Yellow right, green left							
	4 - Green right, yellow left							
	5 - Green right, green left							
OPTIONS (Tail Length & Thread)								
	0 - Tail 2.54mm (.100"), standard, if threaded lugs 4-40							
	A - Tail 3.30mm (.130"), if threaded lugs 4-40							
	B - Tail 3.81mm (.150"), if threaded lugs 4-40							
	C - Tail 4.32mm (.170"), if threaded lugs 4-40							
	M - Tail 2.54mm (.100"), if threaded lugs M3							
	N - Tail 3.30mm (.130"), if threaded lugs M3							
	P - Tail 3.81mm (.150"), if threaded lugs M3							
	R - Tail 4.32mm (.170"), if threaded lugs M3							
SPECIALS								
	1 - 1 port							
	2 - 2 ports							
	3 - 3 ports							
	4 - 4 ports							
	B - 1 port, vertical connector, gasket on front shell flange							
	E - 1 port, special pcb hole pattern for hard wiring & tie wraps - see MRJ-5C80-0E (8 pos'n, no led's)							
	F - 1 port, shell with threaded lug							
UNIQUE SPECIAL CODE								
	No Digit - Part defined by previous 10 digits							
	0 - Use as a filler with future extensions to part number definition							
	1-9 - Unique special feature. See separate part number listing & note 1							

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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