PDS-233-7



Look No Further...

Specifically made for all your: Gigabit Ethernet, HDMI, USB 2.0/3.0 Needs!

Amphenol Aerospace now offers a connector series that can be used for all of your multi-media needs. This series is capable of running Gigabit Ethernet, USB 2.0/USB 3.0, HDMI and 10 Gigabit Ethernet when specified and designated to a specific configuration. MRC is a micro-miniature connector ideal for Commercial, Industrial and Military Communication Systems. Its compact size combined with its IP67 performance rating makes it ideal for the harshest environmental situations.

The MRC flange mounting plugs are supplied with rigid contacts that are flat to the front surface of the connector. This feature allows it to be used in applications such as ruggedized displays, radios, and routers that have potential to come in contact with dirt and sand during use. The MRC can be easily cleaned by simply wiping off debris whereas standard pin and socket style connectors tend to be more difficult to remove debris once it has been compacted in the contacts.

The MRC cable assemblies feature connectors with spring loaded contacts and two coupling styles (Push/Pull and Push w/ ¼ turn lock). Both of these coupling styles mate with the standard flange mounting plug. Cable assemblies are available in various lengths and can either be supplied as double ended with MRC connectors on both ends or with standard COTS RJ45, USB, HDMI connections on one end. Additional cable materials and connector configuration are available; please consult our product team with your requirements.

MRC Series Specifications

CURRENT RATING	2.5 AMPS Max Per Contact
PROTOCOLS SUPPORTED	Gigabit Ethernet, USB 2.0/3.0, 10 Gigabit Ethernet, & HDMI
DURABILITY	2000 Mating Cycles
UNMATING FORCE	15 lb. Min
TEMPERATURE RANGE	See Individual Connector Pages

Materials & Finishes

SHELLS	Aluminum Alloy
CONTACTS	Copper Alloy, Gold Plated
INSULATORS	Polyphenylene Sulfide (PPS), Teflon
CANTED COIL SPRING	Stainless Steel, Gold Plated

For further information, contact our product specialist, Catalin Brandas at 607-563-5665 or cbrandas@amphenol-aao.com.











Amphenol's New Multi-Media Ruggedized Connectors are Ideal for Communication Systems in Harsh Environments.

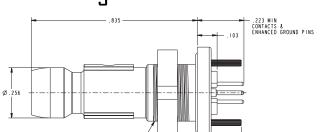




9 Pin

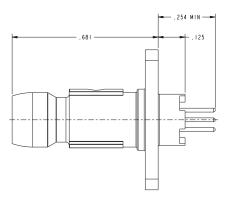
Aerospace

9 Pin Chassis Mount Plug - How to Order

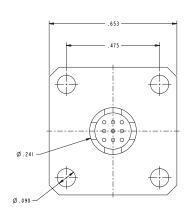


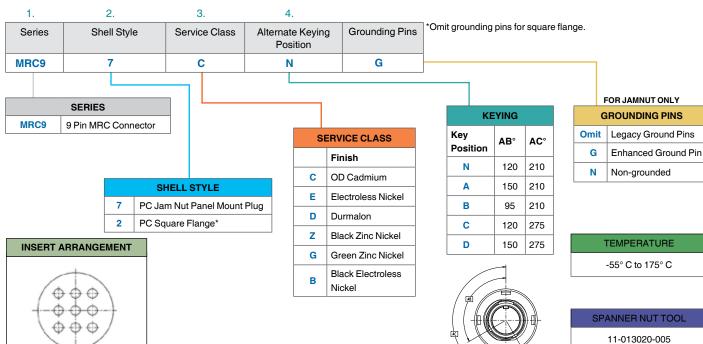
.211 MIN LEGACY GROUND PINS





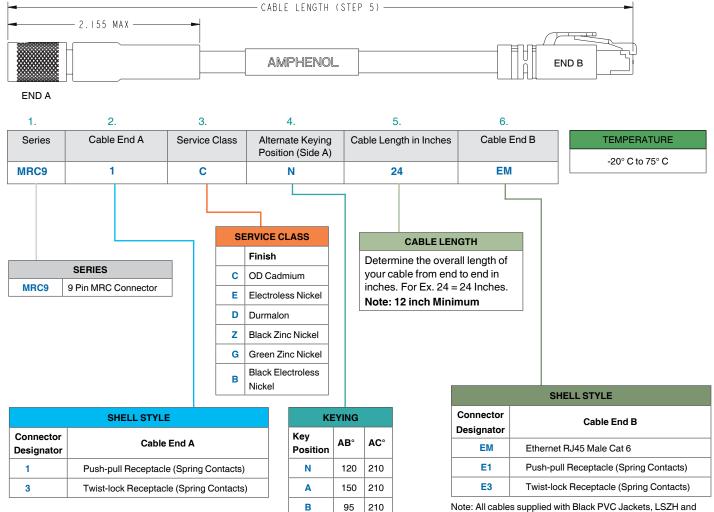
.100 MAX PANEL THICKNESS

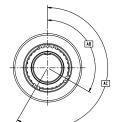






Ethernet Cable Assemblies - How to Order





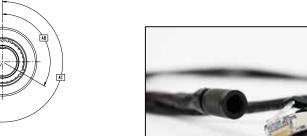
120 275

150 275

С

D

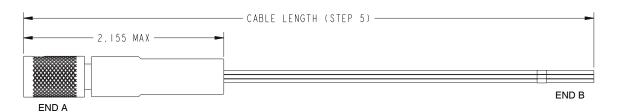


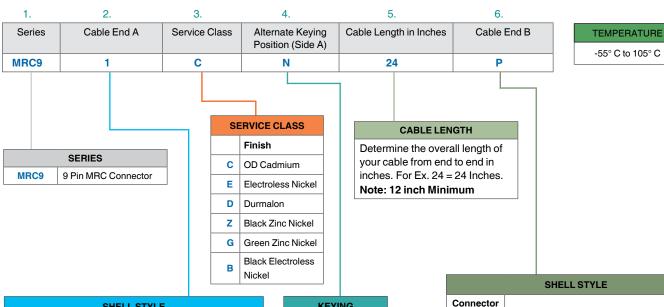






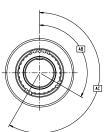
9 Pin Pig Tail Cable Assemblies - How to Order

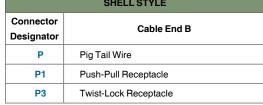




	SHELL STYLE	
Connector Cable End A		Cable End A
	1	Push-pull Receptacle (Spring Contacts)
	3	Twist-lock Receptacle (Spring Contacts)

KEYING		
Key Position	ΑB°	AC°
N	120	210
Α	150	210
В	95	210
С	120	275
D	150	275







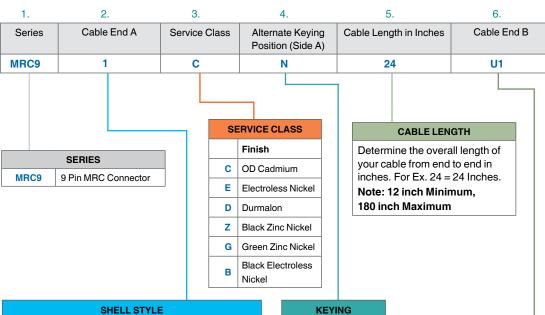
TEMPERATURE

-20° C to 60° C



USB 2.0/3.0 Cable Assemblies - How to Order





Key

Position N

Α

C

	SHELL STYLE
Connector Designator	Cable End A
1	Push-pull Receptacle (Spring Contacts)
3	Twist-lock Receptacle (Spring Contacts)

/		
-		
4	PI M	

AC°

210

ΑB°

120 150

SHELL STYLE		
Connector Designator	Cable End B	
U1	USB 2.0 Type A Male	
U2	USB 2.0 Type A Micro B Male	
U3	USB 3.0 Type A Male	
U4	USB 3.0 Type A Female	
U5	USB 3.0 Type A Micro B	
U6	Push-pull Receptacle (Spring Contacts)	
U7	Twist-lock Receptacle (Spring Contacts)	

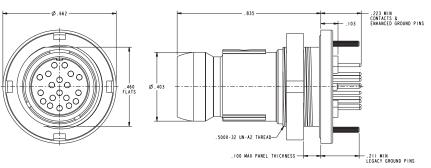
Note: All cables supplied with Black PVC Jackets, LSZH and other cable jacket types available upon request. Please contact factory.

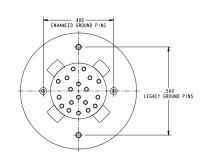


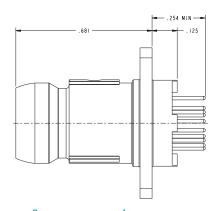
PDS-233-7



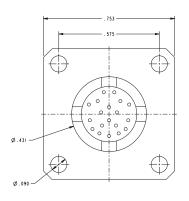
19 Pin HDMI Chassis Mount Plug - How to Order

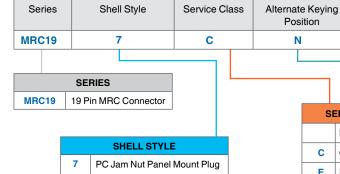






Position





PC Square Flange*

2.

SERVICE CLASS	
Finish	
С	OD Cadmium
Е	Electroless Nickel
D	Durmalon
Z	Black Zinc Nickel
G	Green Zinc Nickel
В	Black Electroless Nickel

Grounding Pins

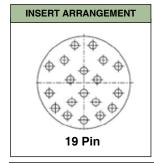
G

KEYING		
Key Position	ΑB°	AC°
N	120	210
Α	150	210
В	95	210
С	120	275
D	150	275

*Omit grounding pins for square flange.

GROUNDING PINS		
Omit	Legacy Ground Pins	
G	Enhanced Ground Pins	
N	Non-grounded	

FOR JAMNUT ONLY



1.

SPANNER NUT TOOL

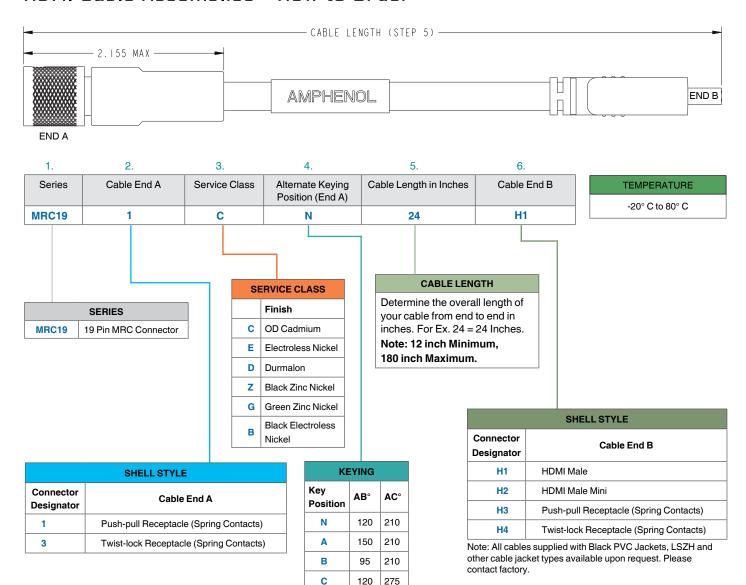
11-013020-007

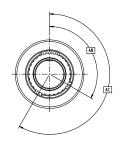
TEMPERATURE -55° C to 175° C





HDMI Cable Assemblies - How to Order





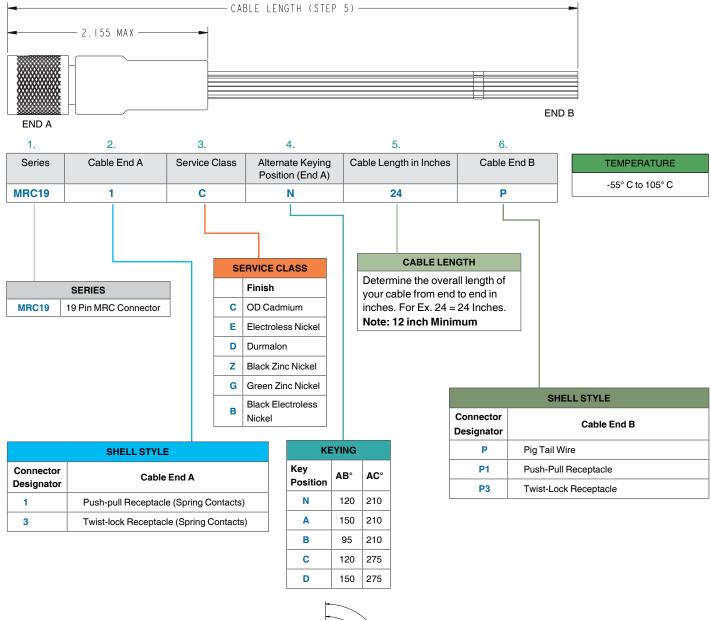
150 275

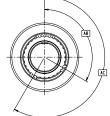






19 Pin Pig Tail Cable Assemblies - How to Order





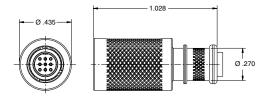


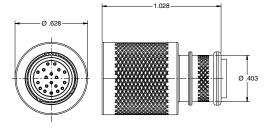


Connector Options

1 - Push-pull Receptacle

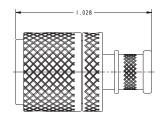
(Spring loaded Contacts)

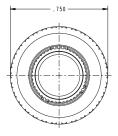


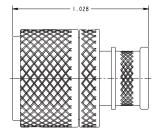


3 - Twist-lock Receptacle (Spring loaded Contacts)









MRC Solutions

The MRC panel mount connectors are also available with COTS connector assemblies. These assemblies allow the user to connect commercial cables inside their box or on the backside of a bulkhead. This type of assembly allows the user to ruggedize specific areas of the application while others can remain commercial. Please contact Amphenol with your requirements.



Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

AMPHENOL is a registered trademark of Amphenol Corporation.

© 2014 Amphenol Corporation Printed in U.S.A. REV 9/2014

