

Rev 1.5



Table of Contents

	Page
Introduction	3
About Siretta	4
SMA Connectors	5
Reverse Thread	5
Reverse Polarity	5
SMB Connectors	6
FME Connectors	6
BNC Connectors	7
Reverse Polarity	7
TNC Connectors	8
Reverse Polarity	8
N-Type Connectors	9
Reverse Polarity	9
MCX Connectors	10
MMCX Connectors	10
U.FL/IPEX Connectors	11
GSC Connectors	11
Adaptors	12
Disclaimer	15

sales

email

web



Introduction

The wide range of available RF connectors can make for a confusing picture when trying to specify or identify connectors in new or existing installations. With this guide, Siretta have attempted to present the most common connector types in an easy to use document that allows simple visual identification, and an understanding of the basic connector styles.

As this guide is intended to be a comprehensive document, not all of the connector types shown are available from Siretta.

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About Siretta

Siretta, located in Reading, United Kingdom have been manufacturing antennas, cable assemblies and cellular terminals for over 10 years. We supply our products globally to many of the world's leading organisations.

Whether you require an off the shelf or custom solution, Siretta has a wide portfolio of antenna, RF cable assemblies and terminals to fit your application.

Our extensive knowledge and experience in the wireless market allows us to support a wide range of customer applications, focusing on frequencies typically within the 75MHz - 5.8GHz range. These encompass the HF, VHF, ISM, GSM/GPRS/3G/4G and GPS frequencies as well as industrial WLAN and VHF/UHF antenna/Wi-Fi antenna solutions.

With a heavy emphasis on design, we have a team of dedicated Application Engineers and Product Managers, backed up by Field Sales Engineers, who specialise in wireless applications.

We have made significant investments in R&D facilities which boast GPS hardware development equipment and a GSM Pico Cell on site, as well as development software and a comprehensive suite of Industrial, Scientific and Medical band, and non ISM band frequency products. We have many technology partners enabling us to keep at the forefront of the communications industry and offer class leading wireless solutions.

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SMA Connectors

SMA connectors are one of the most common RF connector styles. SMA connectors have a screw type mating mechanism.

SMA Male



Male centre pin and male outer shell with an inner screw thread.

SMA Female



Female centre receptacle and female outer shell with an outer screw thread.

Reverse Thread

Reverse Thread SMA connectors are the same as the standard SMA, but have a left hand thread instead.

RT-SMA Male



Male centre pin and male outer shell with left hand thread.

RT-SMA Female



Female centre receptacle and female outer shell with left hand thread.

Reverse Polarity

Reverse Polarity SMA connectors are a variation of the standard SMA connector, with reversed gender of the connector interface. The term 'Reverse Polarity' refers only to the gender of the connector contact pin, not the signal polarity.

RP-SMA Male



Female centre receptacle and male outer shell with an inner screw thread.

RP-SMA Female



Male centre pin and female outer shell with an outer screw thread.



SMB Connectors

SMB connectors are smaller in dimension than SMA connectors. They also feature 'snap-on' coupling rather than the screw thread used on the SMA, allowing for quick connect/disconnect.

SMB Male



Male centre pin. The SMB male slots inside the female connector and 'clicks' into place.

SMB Female



Female centre receptacle.

FME Connectors

FME connectors are another very common RF connector type. Used primarily with RG58, RG174 or equivalent coaxial cables in mobile applications and installations.

FME Male



Male centre pin and male outer shell with an inner screw thread.

FME Female



Female centre receptacle and female outer shell with an outer thread and a white PVC tip at the terminus.

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BNC Connectors

BNC connectors are a common type of RF connector used for coaxial cables. They are used in radio, television, and other radio-frequency electronic equipment, test instruments, video signals, and were once a popular computer network connector. They feature a quick connect/disconnect mating mechanism without a screw thread.

BNC Male



Male centre pin and two slots on the male outer shell, that mate with the two bayonet lugs on the female connector.

BNC Female



Female centre receptacle and two bayonet lugs on the outer shell, with mating acheived by a quarter turn.

Reverse Polarity

Reverse Polarity BNC connectors are a variation of the standard BNC connector, with reverse polarity of the interface.

RP-BNC Male



Female centre receptable and two slots on the male outer shell, that mate with the two bayonet lugs of the female connector.

RP-BNC Female



Male centre pin and two bayonet lugs on the outer shell, mating is achieved by a quarter turn.

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TNC Connectors

TNC connectors are a threaded version of the BNC connector. TNC connectors are popular for use with outdoor equipment as they are inherently more water resistant than other standard connector types.

TNC Male



Male centre pin and male outer shell with an inner screw thread.

TNC Female



Female centre receptacle and female outer shell with an outer screw thread.

Reverse Polarity

Reverse Polarity TNC connectors are a variation of the standard TNC connector, with reverse polarity of the interface.

RP-TNC Male



Female centre receptacle and male outer shell with an inner screw thread.

RP-TNC Female



Male centre pin and female outer shell with an outer screw thread.

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N-Type Connectors

N-Type connectors are a threaded RF connector, popular for use with outdoor equipment as they are inherently more water resistant than other standard connector types.

N-Type Male



Male centre pin and male outer shell with an inner screw thread.

N-Type Female



Female centre receptacle and female outer shell with an outer thread.

Reverse Polarity

Reverse Polarity N-Type connectors are a variation of the standard N-Type connector, with reverse polarity of the interface.

RP-N-Type Male



Female centre receptacle and male outer shell with an inner screw thread.

RP-N-Type Female



Male centre pin and female outer shell with an outer screw thread.

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MCX Connectors

MCX and the smaller MMCX connectors are frequently used to connect external antennas to GPS receivers. They are also common in USB DVB-T tuners for computers and laptops, to connect an external antenna to the tuner.





Male centre pin and outer shell with clips to mate with the female.

MCX Female



Female centre receptacle and a solid surface outer shell.

MMCX Connectors

While the MCX connector features a 'snap-on' mechanism, the MMCX features a lock-snap mechanism that improves stability and durability. Unlike the MCX connector, which is more rigid when joined with another cable, the MMCX connector allows for rotation of up to 360 degrees for greater flexibility. This special locking mechanism also helps to reduce the RF leakage at the joints of the connector.

MMCX Male



Male centre pin.

MMCX Female



Female centre receptacle.

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U.FL/IPEX Connectors

U.FL connectors are an equivalent of the IPEX MHF connector. Both are compatible with one another and differ simply by their manufacturers. uFL and IPEX cable connectors can be terminated with 1.13mm, 1.32mm, 1.37mm, 0.81mm RF cables.

U.FL/IPEX Male



Female centre plug, mates by slotting around male. In most circumstances, antenna cables and cable assemblies are terminated with the U.FL/IPEX Male connector.

U.FL/IPEX Female



Male centre pin, which during connectivity fits into the female centre plug. In most circumstances, the U.FL/IPEX Female connector is found on the PCB.

GSC Connectors

GSC is a low-profile but high frequency RF coaxial connector. MCF connectors are compatible with the GSC. The GSC connector has a 2.0mm mated height.

GSC Male



Female centre plug, mates by slotting around male.

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Adaptors

A list of our popular adaptors are below:

	Connector A	Connector B	Part No
	SMA Male	SMA Male	ADAPT/SMAM/SMAM
	SMA Male	SMA Female	ADAPT/SMAM/SMAF
	SMA Male	SMA Male RP	ADAPT/SMAM/SMAM/RP
	SMA Male	SMA Female RP	ADAPT/SMAM/SMAF/RP
	SMA Male	SMA Female RA	ADAPT/SMAM/SMAF/RA
0	SMA Male	TNC Male	ADAPT/SMAM/TNCM
Mildelike	SMA Female	SMA Female	ADAPT/SMAF/SMAF
	SMA Female	SMA Male RP	ADAPT/SMAF/SMAM/RP
	SMA Female	SMA Female RP	ADAPT/SMAF/SMAF/RP

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Connector A	Connector B	Part No
SMA Female	TNC Male	ADAPT/SMAF/TNCM
SMA Female	TNC Female	ADAPT/SMAF/TNCF
FME Male	SMA Male	ADAPT/FMEM/SMAM
FME Male	SMA Female	ADAPT/FMEM/SMAF
FME Male	FME Male	ADAPT/FMEM/FMEM
FME Male	FME Female	ADAPT/FMEM/FMEF
FME Male	TNC Male	ADAPT/FMEM/TNCM
FME Female	SMA Male	ADAPT/FMEF/SMAM
FME Female	SMA Female	ADAPT/FMEF/SMAF
FME Female	FME Female	ADAPT/FMEF/FMEF

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	Connector A	Connector B	Part No
	SMB Male	SMA Female	ADAPT/SMBM/SMAF
O land A Mar	SMB Female	SMA Male	ADAPT/SMBF/SMAM
O Hallet Sales	SMB Female	SMB Female	ADAPT/SMBF/SMBF
C. mand	MMCX Male	SMA Female	ADAPT/MMCXM/SMAF
	MMCX Female	SMA Male	ADAPT/MMCXF/SMAM
9	MCX Male	FME Male	ADAPT/MCXM/FMEM
	MCX Female	SMA Male	ADAPT/MCXF/SMAM
9	MCX Female	FME Male	ADAPT/MCXF/FMEM
	N-Type Male	SMA Female	ADAPT/N-TYPEM/SMAF
	MMCX Male MMCX Female MCX Male MCX Female	SMA Female SMA Male FME Male FME Male	ADAPT/MMCXM/SMAF ADAPT/MMCXF/SMAM ADAPT/MCXM/FMEM ADAPT/MCXF/SMAM

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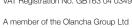


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