

## About RF Cables

Siretta RF cable assemblies are generally used as an adaptor to connect two devices in RF signal transmission – typically a wireless module and antenna.

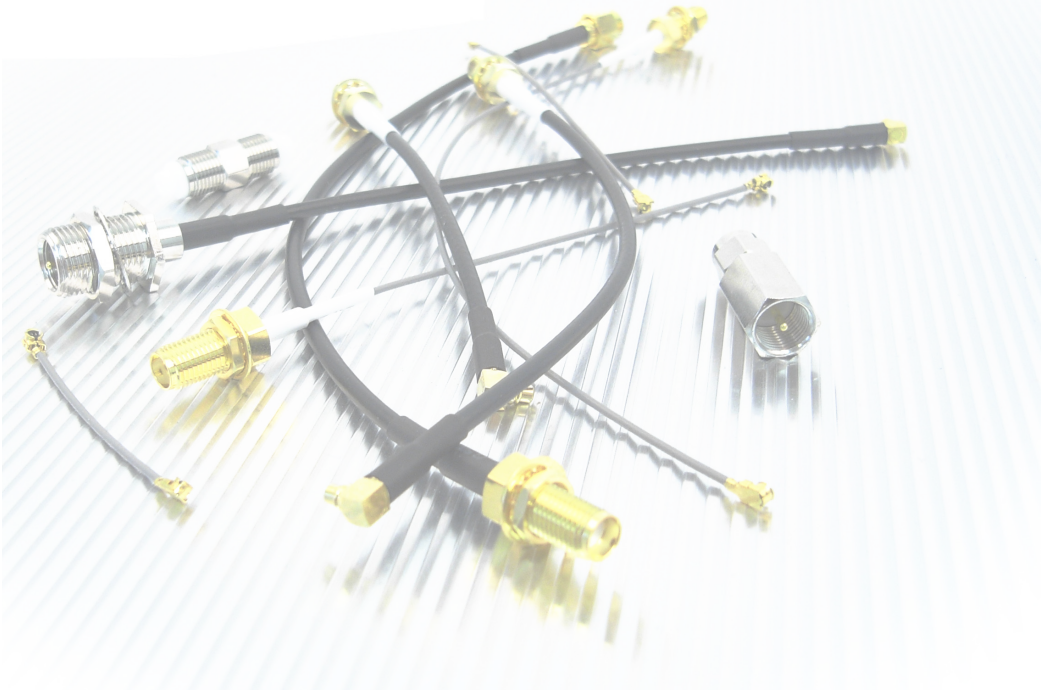
### Custom cable assemblies in 10 days

Siretta is the top RF cable assembly manufacturer in the UK. We have several standard RF cable types and variations in stock. In just 10 days, we can assemble your customised requests and/or design a cable suited for your application.

### Meeting our customers needs

For custom cables we will make a price quotation and after the price has been approved by you, we will provide technical drawings for your approval.

Each RF cable assembly is 100% signal continuity tested in process and at completion. Our on-going quality control inspection guarantees every customer will receive the ultimate in quality cables.



## RF Internal Cables

*Our Most Popular Range of RF Internal Cables*

Our internal RF cables are available in all cable styles as shown in the table on page 66.

Some internal cables are more popular than others. The popular styles we strive to have high availability on and we are continuously manufacturing them. Other combinations are less popular but can be made quickly with low minimum order quantities.

**WE ONLY SUPPLY QUALITY CONNECTORS AND CABLES WITH ASSEMBLY TO MATCH AND AT A GREAT PRICE POINT.**



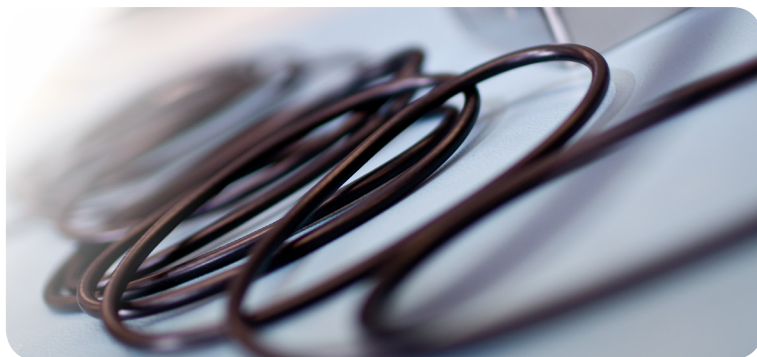
## RF Internal Cables

Connector A	Connector B	Cable Type	Cable Length	Part No
	SMA Female Bulkhead	0.81mm coax	100mm 150mm 200mm	ASMI010X081S11 ASMI015X081S11 ASMI020X081S11
	FME Male Bulkhead	0.81mm coax	100mm 150mm 200mm	ASMI010Y081S11 ASMI015Y081S11 ASMI020Y081S11
	GSC / MCF	0.81mm coax	50mm 100mm 150mm	ASMI010I081S11 ASMI015I081S11 ASMI005I081S11
	SMA Female Bulkhead	1.13mm coax	100mm 150mm 200mm 300mm	ASMG010X113S11 ASMG015X113S11 ASMG020X113S11 ASMG030X113S11
	uFL / IPEX	1.13mm coax	50mm 100mm 150mm	ASMG010G113S11 ASMG015G113S11 ASMG005G113S11
	SMA Female Bulkhead	RG174	100mm 150mm 200mm 250mm	ASMK010X174S11 ASMK015X174S11 ASMK020X174S11 ASMK025X174S11

## *RF Extension Cables*

### *RG58 and RG174 Standard and Low Loss Versions*

At Siretta we have produced a collection of off-the-shelf or short delivery RF extension cables in RG174 and RG58 standard and low-loss cable styles. These are high quality cables made to a high standard using quality components. Availability, quality and a great price point is the philosophy of Siretta RF cables.

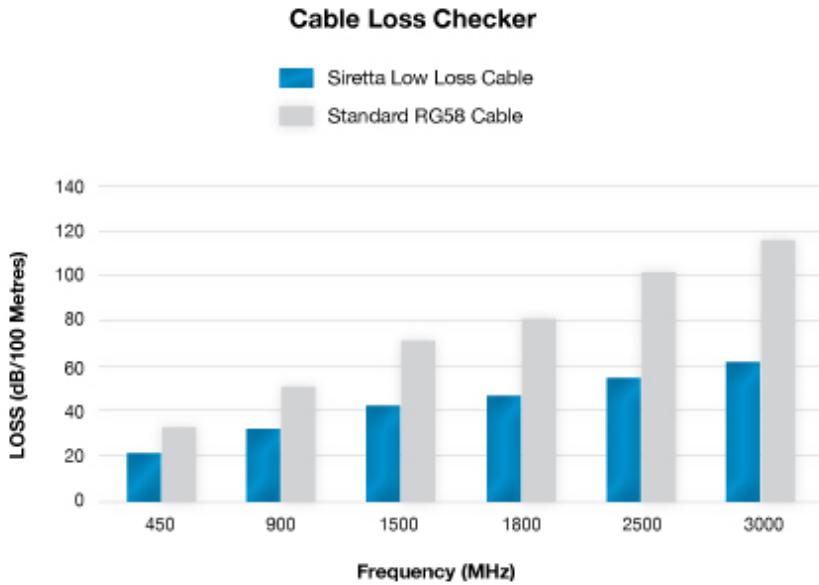


Extension cables are suitable for either direct connection to antennas that feature a pigtail and connector output - such as the Oscar range - or for extending existing cable runs to a longer distance.

Our cables assemblies utilise RG58 and RG174 cables, with a choice of SMA, FME, TNC and N-Type popular connector types. Standard cable lengths offered are 3m, 5m and 10m, although consideration should be given to minimising the overall cable length wherever possible to minimise losses. This is especially important in locations with limited reception.

Please also review our low loss RF cables as we have the same philosophy of quality, availability and a great price point for this range too.

The Siretta cable loss checker shows the difference in frequency loss between low loss cables, and standard RG58 cables.









# Low Loss LLC100A Extension Cables (RG174 replacement)

Connector A	Connector B	Cable Length	Part No	High Stock Availability
SMA Male	SMA Female	3m	ASMA300B174L13	✓
		5m	ASMA500B174L13	✓
		10m	ASMA1000B174L13	
SMA Male	FME Female	3m	ASMA300F174L13	✓
		5m	ASMA500F174L13	✓
		10m	ASMA1000F174L13	
SMA Male	MCX Male	3m	ASMA300T174L13	
		5m	ASMA500T174L13	
		10m	ASMA1000T174L13	
SMA Male	MMCX Male	3m	ASMA300L174L13	
		5m	ASMA500L174L13	
		10m	ASMA1000L174L13	
FME Male	MCX Male	3m	ASME300T174L13	
		5m	ASME500T174L13	
		10m	ASME1000T174L13	
FME Female	FME Male	3m	ASMF300E174L13	✓
		5m	ASMF500E174L13	✓
		10m	ASMF1000E174L13	
FME Female	MCX Male	3m	ASMF300T174L13	
		5m	ASMF500T174L13	
		10m	ASMF1000T174L13	



## Low Loss LLC200A Extension Cables (RG58 replacement)

Connector A	Connector B	Cable Length	Part No	High Stock Availability
	SMA Female	3m	ASMA300B058L13	
		5m	ASMA500B058L13	
		10m	ASMA1000B058L13	
		15m	ASMA1500B058L13	
		20m	ASMA2000B058L13	
	FME Female	3m	ASMA300F058L13	
		5m	ASMA500F058L13	
		10m	ASMA1000F058L13	
		15m	ASMA1500F058L13	
		20m	ASMA2000F058L13	
	N-Type Male	3m	ASMA300R058L13	
		5m	ASMA500R058L13	
		10m	ASMA1000R058L13	
		15m	ASMA1500R058L13	
		20m	ASMA2000R058L13	
	FME Female	3m	ASME300F058L13	
		5m	ASME500F058L13	
		10m	ASME1000F058L13	
		15m	ASME1500F058L13	
		20m	ASME2000F058L13	
	SMA Male	3m	ASMZG300A058L13	
		5m	ASMZG500A058L13	
		10m	ASMZG1000A058L13	
		15m	ASMZG1500A058L13	
		20m	ASMZG2000A058L13	
	FME Female	3m	ASMZG300F058L13	
		5m	ASMZG500F058L13	
		10m	ASMZG1000F058L13	
		15m	ASMZG1500F058L13	
		20m	ASMZG2000F058L13	







# RG174 Extension Cables

Connector A	Connector B	Cable Length	Part No	High Stock Availability
SMA Male	SMA Female	0.5m	ASMA050B174S13	
		1m	ASMA100B174S13	✓
		3m	ASMA300B174S13	✓
SMA Male	FME Female	0.5m	ASMA050F174S13	
		1m	ASMA100F174S13	✓
		3m	ASMA300F174S13	✓
SMA Male	MCX Male	0.5m	ASMA050T174S13	
		1m	ASMA100T174S13	
		3m	ASMA300T174S13	
SMA Male	MMCX Male	0.5m	ASMA050L174S13	
		1m	ASMA100L174S13	
		3m	ASMA300L174S13	
FME Male	MCX Male	0.5m	ASME050T174S13	
		1m	ASME100T174S13	
		3m	ASME300T174S13	
FME Female	FME Male	0.5m	ASMF050E174S13	
		1m	ASMF100E174S13	✓
		3m	ASMF300E174S13	✓
FME Female	MCX Male	0.5m	ASMF050T174S13	
		1m	ASMF100T174S13	
		3m	ASMF300T174S13	

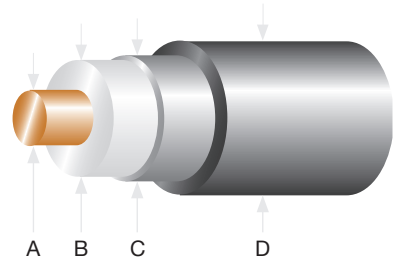




## RG58 Extension Cables

Connector A	Connector B	Cable Length	Part No	High Stock Availability
	SMA Female	3m	ASMA300B058S13	✓
		5m	ASMA500B058S13	
	FME Female	3m	ASMA300F058S13	✓
		5m	ASMA500F058S13	
	N-Type Male	3m	ASMA300R058S13	✓
		5m	ASMA500R058S13	
	FME Female	3m	ASME300F058S13	
		5m	ASME500F058S13	
	SMA Male	3m	ASMZG300A058S13	✓
		5m	ASMZG500A058S13	✓
		10m	ASMZG1000A058S13	
	FME Female	3m	ASMZG300F058S13	✓
		5m	ASMZG500F058S13	

# RF Cables Sizes



Cable Type	Connector types	Min Bend Radius	Dimensions (mm)				Insulator Material
			A Core	B Insulator	C Shield	D Jacket	
0.81mm	u.FL, IPEX, MHF2, GSC, HSSC	3.24	0.15	0.4	0.65	0.81	PFA
1.13mm	u.FL, GSC, IPEX, SMA, FME, SMB, TNC, TNX, MMCX	4.5	0.24	0.68	0.9	1.13	FEP
1.13mm *	u.FL, GSC, IPEX, SMA, FME, SMB, TNC, TNX, MMCX	4.5	0.22	0.7		1.13	FEP
1.32mm	IPEX, GSC, SMA, FME, SMB, TNC, MCX, MMCX		0.22	0.7		1.32	FEP
1.37mm	u.FL, IPEX, GSC, SMA, FME, SMB, TNC, MCX, MMCX	9	0.32	0.92		1.37	FEP
1.48mm	HFL, IPEX, GSC, SMA, MMCX, MCA, SMB, FME	9	0.31	0.86		1.48	FEP
RG178	IPEX, MHF, MMCX, MCX, SSMB, SMA, FME	9	0.31	0.86		1.8	FEP
RG316	MMCX, SMA, FME, SMB		0.53	1.53		2.53	FEP
RG174	SMA, SMB, MMCX, MCX, FME, TNC, BNC	10.5	0.48	1.55		2.7	XLPE
RG42	SMA	10	0.94	2.95		3.06	Solid PTFE
RG58	SMA, SMB, BNC, TNC, UHF, N	20	19 x 0.18	2.95		4.95	PE

## Low Loss Cables

LLC100A	SMA, SMB, MMCX, MCX, FME, TNC, BNC	6.4	0.46	1.52	2.11	2.79	Solid PE
LLC200A	SMA, SMB, BNC, TNC, UHF, N	20	10.2	2.9	3.4	5	Foam PE
RG213	N-type		2.3	7.24		10.3	PE

PFA	Cross linked poly ethylene
FEP	Fluorinated ethylene propylene - similar to PTFE but flexy - much higher temp before melting
PFA	Perfluoroalkoxy - similar to PTFE but flex
PE	Polyethylene
PVC	Poly Vinyl Chloride
PTFE	Polytetrafluoroethylene

u.FL, IPEX and GSC connectors:

u.FL	Four types depending on cable size.
IPEX	There are 4 sizes - MHF, MHF2, MHF3, MHF4 (smallest). Dictated by cable size. Std is MHF 2.5mm height.
GSC	Only one size.

Check small connector guide details

Jacket Material	Loss dB/M @ 2GHz	Frequency Range	Comments
PFA	4.4	to 6GHz	Internal antenna pigtails
FEP	3.2	to 6GHz	Most popular cable for internal use. Internal antenna pigtails, internal to bulkhead connector cable.
FEP	2.2	to 6GHz	* Low loss version of the standard 1.13mm
FEP	2.8	to 6GHz	
FEP	2.4 @2.5GHz	to 6GHz	Has same size conductor as 1.48mm and RG178 cable, but smaller overall diameter, similar cable loss but more flexible in limited space.
FEP		to 6GHz	1.48mm is the most popular thin RF coaxial cable.
FEP	2.6 @1.8GHz	to 6GHz	
FEP	2.06 @2.4GHz	to 3GHz	Used internally instead of RG174. RG136 can go high temp and is more flexible.
PVC	1.175 @1GHz	to 6GHz	This is the most popular cable for GPS and GSM antennas. Low temp spec.
N/A	0.58	to 6GHz	Outer jacket - tin soaked braid. Semi rigid cable
PVC	1.06 @2.4GHz	to 6GHz	Standard RF cable for outside use.

PVC	1.15	to 6GHz	Low loss version of RG174 and much more flexible
PVC	0.15 @200MHz	to 6GHz	*Low loss version of the standard RG58.
PVC	0.25 @900MHz	to 6GHz	Low loss cable for the base station industry.



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