



PRODUCT CATALOGUE

Antennas | M2M Modules | Components | Systems



www.giga-concept.fr

2018



OUR PARTNERS...



CHOOSE YOUR NETWORKS !



You can choose one or all of them...

This all depends on the final application, no matter if you use a mobile phone or an industrial platform, we have the module for you.

Our disruptive approach allows us to bring our radio frequency knowledge to your custom applications.

The module spectrum covering is very large and adaptative.

Our IoT platforms support all the industry standards and are market oriented.

Processing depending on the chosen module :

- Espressif ESP32 Chipset :
 - MicroPython enabled, the Linux of IoT for fast deployment
- ARM core application processor with dedicated Flash and RAM running Legato®
- STM32 L0 (ultra low power) or F0

Interfaces :

- UART / SPI / I2C
- Micro SD
- Analog channels :
 - 8*12 bits ADCS Times
 - DMA on all peripherals
- GPIO : Up to 24

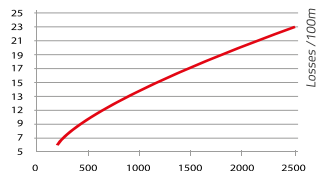


CABLES & CONNECTORS Coaxial Cables

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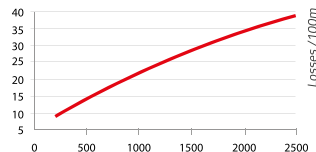
Serie S400 LOW LOSS

Min Bend Radius	50
Center conductor	Solid bare copper clad aluminium
Center conductor diameter (mm)	2.74
Dielectric	Foam PE
Overwall diameter (mm)	10.3
Shielding Effectiveness (dB min)	-90



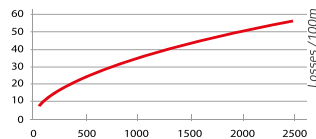
Serie S214

Min Bend Radius	50
Center conductor	Copper Silver
Center conductor diameter (mm)	2.25
Dielectric	Solid PE
Overwall diameter (mm)	10.80
Shielding Effectiveness (dB min)	-80



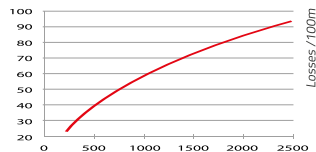
Serie S195 LOW LOSS

Min Bend Radius	12.7
Center conductor	Solid bare copper
Center conductor diameter (mm)	0.94
Dielectric	Solid PE
Overwall diameter (mm)	4.95
Shielding Effectiveness (dB min)	-90



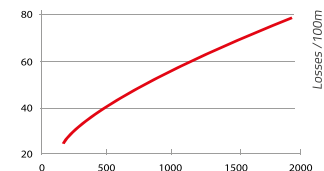
Serie S58

Min Bend Radius	15
Center conductor	Copper single braid
Center conductor diameter (mm)	0.90
Dielectric	Solid PE
Overwall diameter (mm)	4.95
Shielding Effectiveness (dB min)	-60



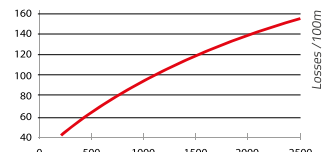
Serie S174LL LOW LOSS

Min Bend Radius	20
Center conductor	Stranded E-Cu Xire, bare
Center conductor diameter (mm)	0.81
Dielectric	Solid PE
Overwall diameter (mm)	3.20
Shielding Effectiveness (dB min)	-60



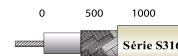
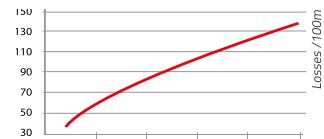
Serie S174

Min Bend Radius	20
Center conductor	Solid bare copper
Center conductor diameter (mm)	0.48
Dielectric	Foam PE
Overwall diameter (mm)	2.80
Shielding Effectiveness (dB min)	-60



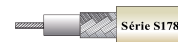
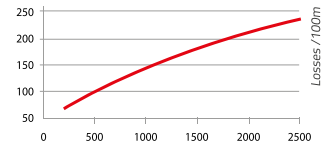
Serie S316

Min Bend Radius	15
Center conductor	Silver Plated copper
Center conductor diameter (mm)	0.51
Dielectric	Solid PTFE
Overwall diameter (mm)	2.52
Shielding Effectiveness (dB min)	-60



Serie S178

Min Bend Radius	20
Center conductor	Solid copper silver
Center conductor diameter (mm)	0.84
Dielectric	Solid PTFE
Overwall diameter (mm)	1.80
Shielding Effectiveness (dB min)	-60



LMR 195 LOW LOSS

Inner Conductor (mm)	Solid BC / 0.94
Outer Conductor (mm)	Aluminium Tape / 2.95
Overwall Braid (mm)	Tinned Copper / 3.53
Dielectric (mm)	Foam PE / 2.79
Capacitance (pF/m)	83.3
Shielding Effectiveness	> 90 dB



Frequency (MHz)	30	900	1500	1800	2000	2500	5800
Attenuation dB/100m	6.5	36.5	47.7	52.5	55.4	62.4	98.1
Avg. Power kW	0.89	0.16	0.12	0.11	0.10	0.09	0.06

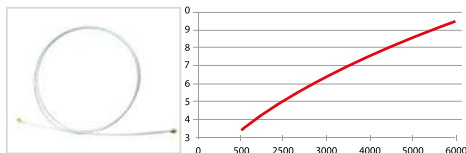
LMR 400 LOW LOSS

Inner Conductor (mm)	Solid BCCA / 2.74
Outer Conductor (mm)	Aluminium Tape / 7.39
Overwall Braid (mm)	Tinned Copper / 8.15
Dielectric (mm)	Foam PE / 7.24
Capacitance (pF/m)	78.4
Shielding Effectiveness	> 90 dB



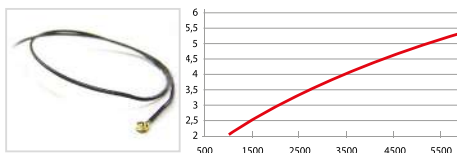
Frequency (MHz)	30	900	1500	1800	2000	2500	5800
Attenuation dB/100m	2.2	12.8	16.8	18.6	19.6	22.2	35.5
Avg. Power kW	3.33	0.58	0.44	0.40	0.37	0.33	0.21

CABLES Miniature



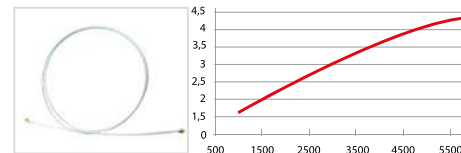
Serie #68

Center conductor	Silver Plated copper
Center conductor diameter (mm)	0.15
Dielectric	Solid PFA / 0.4
Overwall diameter (mm)	0.81
Capacitance (pF/m)	96
Voltage rating (Vrms Max.)	300
Insertion loss (dB/m)	@ 1GHz : 3.53 @ 2.4GHz : 5.71 @ 5GHz : 8.53



Serie #59

Center conductor	Silver Plated copper
Center conductor diameter (mm)	0.24
Dielectric	Solid FEP / 0.68
Overwall diameter (mm)	1.13
Capacitance (pF/m)	97
Voltage rating (Vrms Max.)	300
Insertion loss (dB/m)	@ 1GHz : 2.06 @ 2.4GHz : 3.27 @ 5GHz : 4.87



Serie #54

Center conductor	Silver Plated copper
Center conductor diameter (mm)	0.305
Dielectric	Solid FEP / 0.88
Overwall diameter (mm)	1,32
Capacitance (pF/m)	96
Voltage rating (Vrms Max.)	300
Insertion loss (dB/m)	@ 1GHz : 1.61 @ 2.4 GHz : 2.58 @ 5 GHz : 4.1



SMA CONNECTOR (code-01)	
Frequency	DC-18GHz
Impedance	50 Ohms
Insertion Loss	0.2 dB Max
VSWR	1.3:1 Max
Available Type	Female, Male, Straight, Right Angle, Bulkhead, Reverse polarity
Mouting	Crimp, solder, PCB, Flange mount



N CONNECTOR (code-05)	
Frequency	DC-11GHz
Impedance	50 Ohms
Insertion Loss	0.2 dB Max
VSWR	1.3:1 Max
Available Type	Female, Male, Straight, Right Angle, Bulkhead
Mouting	Crimp, Clamp, Panel Mount



FME CONNECTOR (code-12)	
Frequency	DC-2GHz
Impedance	50 Ohms
Insertion Loss	0.2 dB Max
VSWR	1.3:1 Max
Available Type	Female, Male, Straight, Bulkhead
Mouting	Crimp, Bulkhead



MCX/MMCX CONNECTOR (code-03 / code-04)	
Frequency	DC-6GHz
Impedance	50 Ohms
VSWR	1.3:1 Max (Straight) 1.5:1 Max (Right Angle)
Available Type	Crimp, Solder, socket and PCB, Edge cart, SMT
Mouting	Crimp, Solder, socket and PCB



SMB CONNECTOR (code-02)	
Frequency	DC-4GHz
Impedance	50 Ohms
VSWR	1.3:1 Max (Straight) 1.5:1 Max (Right Angle)
Insertion Loss	0.4 dB (Straight) 0.6 dB (Right Angle)
Available Type	Female, Male, Straight, Right Angle, Bulkhead
Mouting	Crimp, Solder, Bulkhead and PCB



MICRO CONNECTOR	
Frequency	Up to 6GHz
VSWR	1.3:1 Max
Withstanding V.	AC 300 Vrms
Compatibility	MCA: FSC (Murata) MCB : U.FL (Hirose) / MHF (I-PEX) MCB2 Low profile : U.FL (V) (Hirose) MCD : W.FL (Hirose) MCF : GSC (Murata) MCG : H.FL (Hirose)



FAKRA CONNECTOR (code-25 GPS / code-26 GSM)	
Frequency	DC-6GHz
Impedance	50 Ohms
Insertion Loss	0.2 dB Max
VSWR	1.3:1 Max
Available Type	Crimp, Solder, socket and PCB, Edge cart, SMT
Mouting	Crimp, Solder, socket and PCB



MCBG SOCKET	
Frequency	Up to 6GHz
Impedance	50 Ohms
VSWR	1.3:1 Max
Withstanding V.	AC 300 Vrms
Durability	50 Cycles
Mouting	SMT

CABLES & CONNECTORS Adaptor Cables

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CONNECTOR		BNC		F		N		TNC		UHF		MINI UHF		FME		SMA	
		MALE	FEMALE	male	female	male	female	male	female	male	female	male	female	male	female	male	female
BNC	male	V-7046	V-7047	V-7049	V-7050	V-7051	V-7052	V-7057	V-7058	V-7059	V-7060		V-7611	V-8113	V-8151	V-7819	V-7829
	female	V-4074	V-7061	V-7243	V-7066	V-7324	V-7068	V-7438	V-7073	V-7519	V-7074	V-7607		V-8115	V-8152	V-7820	V-7830
F	male	V-7049	V-7243	V-7234	V-7235	V-7237	V-7244	V-7240	V-7247	V-7241	V-7248						
	female	V-7050	V-7066	V-7235	V-7242	V-7325	V-7249	V-7439	V-7252	V-7520	V-7253	V-7608					
N	male	V-7051	V-7324	V-7237	V-7325	V-7321	V-7322	V-7327	V-7328	V-7329	V-7330		V-7612	V-8118		V-7823	V-7833
	female	V-7052	V-7068	V-7244	V-7249	V-7322	V-7323	V-7440	V-7334	V-7521	V-7335					V-7824	V-7834
TNC	male	V-7057	V-7438	V-7240	V-7439	V-7327	V-7440	V-7430	V-7431	V-7437	V-7443		V-7613	V-8120	V-8157	V-7825	V-7835
	female	V-7058	V-7073	V-7247	V7252	V-7328	V-7334	V-7431	V-7433	V-7523		V-7609	V-7613F	V-8122	V-8158	V-7826	V-7836
UHF	male	V-7059	V-7519	V-7241	V-7520	V-7329	V-7521	V-7437	V-7523	V-7514	V-7516		V-7614	V-8123		V-7827	V-7837
	female	V-7060	V-7074	V-7248	V-7253	V-7330	V-7335	V-7443		V-7516	V-7515	V-7610				V-7828	V-7838
MINI UHF	male		V-7607		V-7608				V-7609		V-7610	V-7605	V-7615	V-8125	V-8161	V-7821	V-7831
	female	V-7611				V-7612		V-7613	V-7613F	V-7614		V-7615	V-7606	V-8128	V-8162	V-7822	V-7832
FME	male	V-8113	V-8115			V-8118		V-8120	V-8122	V-8123		V-8125	V-8128	V-8110		V-8129	V-8132
	female	V-8151	V-8152					V-8157	V-8158			V-8161	V-8162		V-8150	V-8163	V-8164
SMA	male	V-7819	V-7820			V-7823	V-7823	V-7825	V-7826	V-7827	V-7828	V-7821	V-7822	V-8129	V-8163	V-7816	
	female	V-7829	V-7830			V-7833	V-7833	V-7835	V-7836	V-7837	V-7839	V-7831	V-7832	V-8132	V-8164		V-7817



Connector

A N-male



B SMA-male



Connector

A SMA-female **B** UFL/HFL



Connector

A FME-male panel **B** UFL/HFL



Connector

A FME-male panel



B MMCX-male

CABLES & CONNECTORS ADAPTOR CABLES

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