Coaxial Connectors Selection Guide							
SERIES	meaning of the acronym	max. frequency	Z Ω	The max. frequency depends also on the cable that is assembled to the connector and on the type of connector (straight or right angle). Usually the max. limit is imposed by the first way of propagation made by the connection, by decreasing the connector diameter the frequency increases			
BMA SBMA OSP-OSS	Blind Mate Small B. M. P MaCom	22 GHz	50	for special applications, for example automathic tests where the the coupling can't be made by screwing the connector but only by connecting with holding clips so it keeps a very high reliability even at high frequencies it was made especially for avionics or for plug-ins within main-frames			
BNC	Bayonet Navy Conn. or Bayonet Neil Concelman (inventor)	1 GHz , max 3 GHz see note	50 and 75	very good low VSWR connector, it was developed in the 40s for military purposes, the limitation in frequency is due to a not secure contact of the internal pin and the ground because it has a bayonet connection system but the impedance is still good up to 10GHz with a very good Return Loss.			
N	Navy or Paul Neill Bell Lab. (inventor)	12 - 18 GHz (for 50Ω)	50 and 75	able to work in microwave frequecies, it was then improved to work up to 12GHz and 18GHz for special purposes, it is a very successful connector for any kind of application, internal and external, professional and industrial, medium power etc.			
MCX	micro coax	6 - 8 GHz	50 50	similar, it is for internal use, The MMCX has a very good behaviour up to 8GHz			
SMA OSM	Sub Miniature	18 GHz	50	It was developed by Bendix and its first name was 3mm (60s), it is surely the most successful connector for microwave, it is available in many types and versions, even up to 26GHz, it is compatible with 3.5mm and K series (OSM = Omni Spectra)			
SMB	types :	4 GHz	50	snap-on coupling They are similar, they are used mainly inside			
SMC	A, B, C, S, Z	8 GHz	50	threaded connection equipments and in limited spaces			
SIVIS SMZ		4 GHZ ~ 1 GHz	50 75	offen used in radio link IEs, now disused			
SSMA	Small SMA	35 GHz	50	slightly smaller than SMA it is now seldom used (OSMA Omni Spectra-MaCom)			
SSMB	Small SMB	4 GHz	50	slightly smaller than SMB			
GR 874 GR 900	General Radio	8 GHz	50 75	first sexless connector at the beginning of the 50s. born in the 60s, seldom used			
Dezifix A , B , C	Rohde & Schwarz		50-60 75	the max frequency depends on the size the size t			
PC 7 APC7 7 mm	Precision Connector or Amphenol P C 7mm	18 GHz	50	it is used manly for lab and professional applications like network analyzers because it is highly precise			
С	Concelman	11 GHz	50	it is a bigger version of the BNC series always with bayonet connection and size			
HN	(inventor)	4 GHz	50	quite similar to an N, suitable for high voltages and enviroments with strong			
SHV	Safe High voltage	11 GHz	50	bayonet connection, 5KV dc , for high voltages			
TNC	Threaded N. Concelman	11 - 12 GHz	50 (75)	one of the best, it combines the N frequency qualities with the small size of BNC, it is refined and precise. It's a pity that it is little used and appreciated			
UHF		200 - 300 MHz	not defined	it was developed at Amphenol by C. Quackenbush in the 30s especially for use in radio frequency, maybe it was the first standard RF connector			
1.0 - 2.3	#	10 GHz	50	snap-on coupling, used in telecommunications, small size and low cost			
1.6 - 5.6	#	1 GHz	75	snap-on coupling,, used in telecommunications			
4.1 - 9.5	щ	10 GHz	50	it is similar to the 7-16 but with smaller size, not frequently used			
7-16	#	5 - 7 GHz	60 75	adopted worldwide for cellular base station applications		, it was then	
LC		1 GHz	50	for high power with big	g size, now	it is replaced by 7-16, for military	use
FME		~ 300 MHz	50	with low performances	s, it is often	used on mobile equipments and a	Intennas
1 mm 1.85 mm V		65 GHz		mainly used on network analyzers	developed developed	by HP in the 80s the same	they are
2.4 mm OS-2.4	#	50 GHz	50	,	HP - Ampl OS = Omr	nenoi ni Spectra now MaCom	compatible
2.92 mm K		40 (46) GHz		generic name K ® only Wiltron	they are th SMK	ne same product , also called	they are compatible
3.5 mm		32 GHz		it was developed first by HP, it is widely used instead of SMA also with when a better performaces is needed over 18 GHz SMA		also with SMA	
EIA Flanges		2.5	50	they have very big sizes from 7/8" to 6" (about 16 cm) suitable for broadcast powers often used with pressurisated cables			

= If the number is only one it shows the inner diameter of the ground in mm eg. PC7 or 2.92 mm, if the numbers are two they indicate the outer diameter of the pin (jack or female), eg. 7-16 means 7mm the inner pin and 16mm the ground, the ratio will give the impedance of 50 Ω (or 75 Ω). Some connectors have different names due to the patent licenses ®