

# standard coaxial connectors

## UHF series UHF.2



### INTRODUCTION

Standard coaxial connectors with toothed edge screw coupling. Impedance is non constant and there may be a degree of voltage reflection.

Designed as a general purpose connector to operate satisfactorily up to 500 MHz. Ideally suited for mobile radio equipment and ship to shore communications.

### INTERNATIONAL SPECIFICATION

169 - 12 for UHF

*Note : Some of the connector code nos. are shown in this catalogue in blue signifying that they are non standard. This does not mean that they are only made to order, only that we do not guarantee to hold as large stocks of these as the standard types and if our stock is exhausted, delay in additional quantities may be a little extended. In any case, please contact Radiall.*

## ELECTRICAL CHARACTERISTICS

Impedance	:	50 $\Omega$
Maximum frequency range	:	500 MHz
Test voltage (at sea level)	:	2000 V. rms - 50 Hz
Working voltage (at sea level)	:	750 V
Insulation resistance (under 500 V)	:	$\leq 5 \text{ G}\Omega$
Contact resistance		
- centre contact	:	5 m $\Omega$ max.
- outer contact	:	5 m $\Omega$ max.

## MECHANICAL CHARACTERISTICS

Life	:	500 matings
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## ENVIRONMENTAL

Temperature range (according to type of insulator)		
- PTFE	:	- 55 + 155 $^{\circ}$ C
- bakelite	:	- 40 + 165 $^{\circ}$ C
- styramic	:	- 40 + 70 $^{\circ}$ C
Salt spray	:	48 Hrs
Panel sealing	:	splashproof

## MATERIALS

Contacts and interfaces	:	heat treated beryllium copper
Other parts	:	brass
Insulators	:	PTFE (T) - bakelite (B) or styramic (St.)
Gaskets	:	Neoprene or silicone rubber

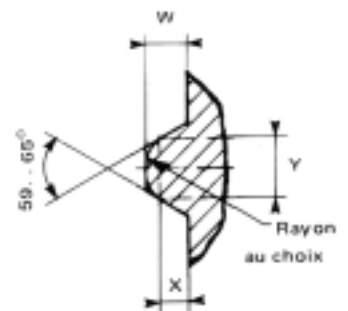
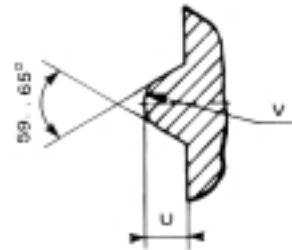
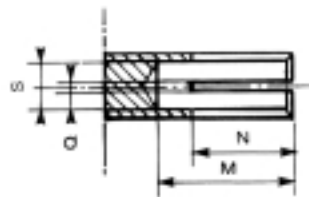
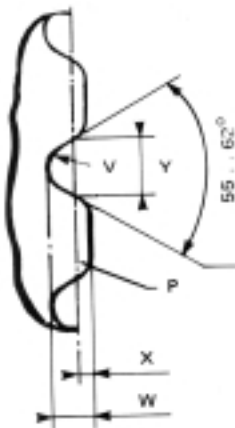
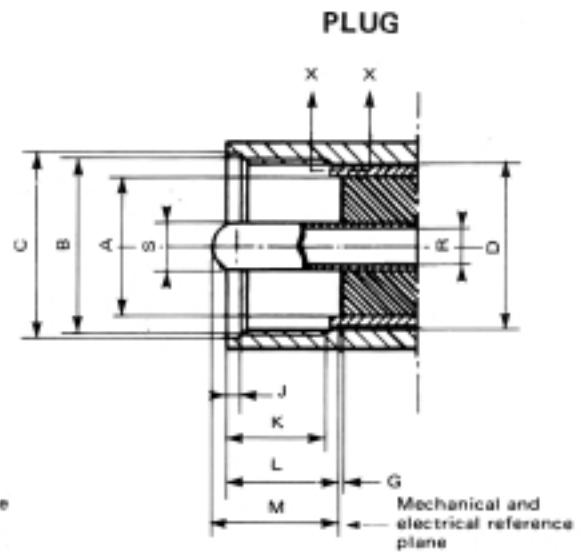
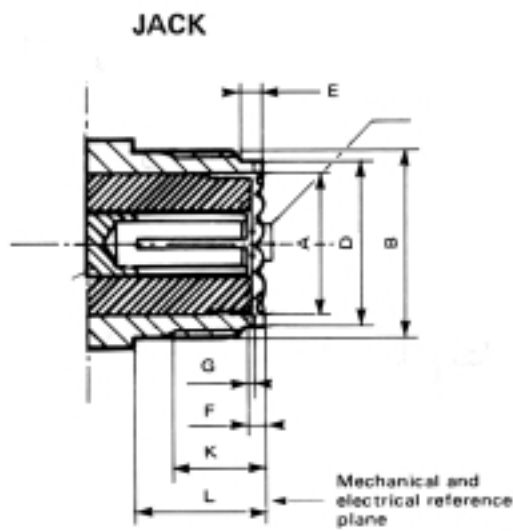
## COAXIAL CABLES SUITABLE

The cable groups are classified by ext. dia (mm) / impedance ( $\Omega$ )

FLEXIBLE CABLES					SPECIAL CABLES
5/50 $\Omega$	6/75 $\Omega$	6/93 $\Omega$	10/50 $\Omega$	10/75 $\Omega$	
RG. 58 C/U	RG. 59 B/U	RG. 62 A/U	RG. 165/U	RG. 11 A/U	50 PPD
RG. 141 A/U	RG. 140/U	RG. 71 B/U	RG. 213/U	RG. 12 A/U	3.5 mm $\emptyset$
RG. 142 B/U			RG. 215/U	RG. 144/U	
RG. 223/U	URM 70	URM 96	URM 67		
RG. 303/U	URM 90			URM 57	
RG. 400/U					
URM 43					
URM 72	KX. 6A				
URM 76	KX. 25				
URM 108	KX. 52			RG. 63 B/U	
URM 301	KX. 53	125 PMSA			

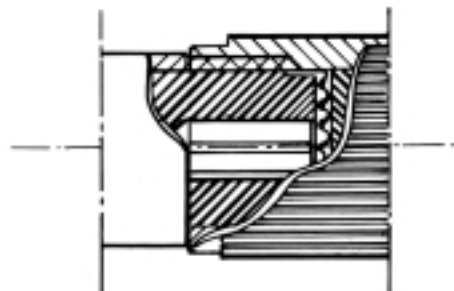
# UHF series

## INTERFACE DIMENSIONS



16 grooves equally spaced

### COUPLING PRINCIPLE



### JACK

SIZE IN MILLIMETERS  
MIN. MAX.

Letter

### PLUG

SIZE IN MILLIMETERS  
MIN. MAX.

Letter	MIN.	MAX.	MIN.	MAX.
A	11,56	12,22	11,56	12,22
B	5/8 - 24 UNEF - 28		5/8 - 24 UNEF - 28	
C	14,00	14,25	16,00	
D	1,19	1,96	13,92	
G	1,02		0,00	
J	0,03		1,19	4,27
K	7,87		8,76	
L	11,10			9,91
M	11,76			11,10
P	0,64			
R				3,36
S	4,039		3,912	4,013
U				0,89
V	0		0,38	0,64
W	0,89			0,89
X	0,41	0,6	0,6	0,75
Y	1,01	1,04	1,3	1,55