

High frequency SMA feedthrough for UHV applications 242-SMAD18G-C16 (and other flange sizes)

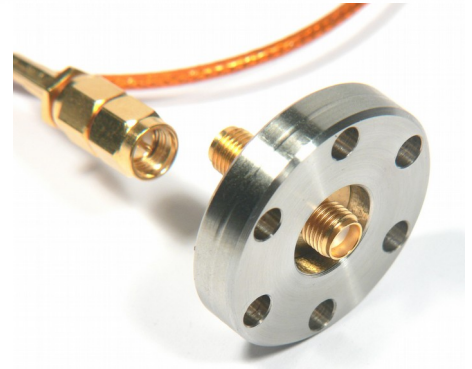
For demanding high frequency applications, Allectra offers a high quality double-sided SMA feedthrough in addition to the well established SMA versions.

Frequencies up to 18 GHz with well defined VSWR and insertion loss give high performance for RF applications.

All contacts are gold plated.

The smallest mounting flange is 16CF. Up to 4 of these feedthroughs can be fitted to a 40CF flange.

242-SMAD18G	
Type	SMA Standard
Impedance	50 Ohm
Frequency range	0 – 18 GHz
Standing Wave Ratio (VSWR)	1.1 + 0.01x f (GHz)
Insertion Loss	0.15 x \sqrt{f} (GHz) db
Max. voltage	1000V
Temperature	-65 ... 200°C (CF flanges)
Vacuum leak rate	< 5x 10 ⁻¹⁰ mbar l / s (He)
Materials	Stainless Steel, BeCu, FeNi, Glass, PTFE
Plating	All metal parts gold plated
Seal	Welded all metal seal



Hand formable Semi Flexible cable 312-PTFE-COAX-SR

This cable shows the same performance as a stiff tube shielded cable but can be formed easily by hand. Allectra offers the raw material or ready made cables with 18GHz SMA connectors.

312-PTFE-COAX-SR	
Type	Semi Flexible cable
Dimensions	Conductor 0.9mm /OD 3.6mm
Materials	Silver plated copper / PTFE dielectric/ Tinned copper
Impedance	50 Ohm +/-2
Frequency range	0 – 20 GHz
Working voltage	2500V rms
Attenuation	0,4 dB/m @ 1GHz/ 1,0 dB/m@ 5 GHz 1.5 dB/m @ 10 GHz/ 2.25 db/m @ 18GHz
Temperature	-55 ... 200°C (in air 155°C maximum)



380-SMA18G-MM-300: Ready made RF cable for UHV use. As PTFE must be used for high frequency cables, the cable is not radiation resistant