



Triaxial Feedthrough 243-TRIAX-C16 / 243-TRIAX-C40

(and other flanges / multiple assemblies)

The Allectra Triaxial feedthrough is designed for use with cable which has a shielded conductor, which is itself surrounded by a second isolated shield. The conductor and inner shield have insulated paths through the feedthrough while the outer second shield is connected to ground. This is the ideal component for low current or voltage measurements, where high accuracy and lowest disruption of the signal are required. For example, this component can be used for accurate beam positioning for synchrotron type applications.

Specifications

TRIAX Specification	
Vacuum	UHV, Leak rate <math> < 5 \times 10^{-10}</math> mbar l/s He
Voltage rating	500V DC (Test rating 700VDC) pin to shield and shield to ground
Current rating	5A max.
Resistivity Pin-Shield	>5x 10 ¹⁶ Ohm (>50 Peta-Ohm)
Resistivity Shield-Ground	>1x 10 ¹⁶ Ohm (>10 Peta-Ohm)
Housing	Low magnetic SS, $\mu < 1.1$
Pins + shield	Gold plated
Connectors	245-CON-TRIAX-HQ (for air and vacuum side), 2 x supplied with the feedthrough as standard
Connector insulation	PTFE
Temperature range	-200°C ... 300°C (feedthrough only) / 200°C (feedthrough with connectors and cable)
Recommended Cable	310-PEEK50-TRIAX for UHV (50 Ohm) 312-PTFE-TRIAX

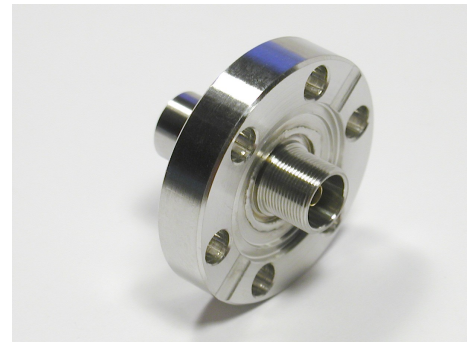
Additional notes:

- We recommend the PEEK insulated triaxial cable 310-PEEK50-TRIAX. It offers a compact design (2.7mm \varnothing) with 2 screens, min. coverage 85%

- Up to 4 feedthroughs fit to a DN40CF flange



243-TRIAX-C16 feedthrough with two connectors. The connector on the left is the Allectra Standard connector



243-TRIAX-C16 feedthrough seen from the vacuum side



243-TRIAX-C16 feedthrough with connectors attached.

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All data given in this sheet is carefully checked but subject to change at any time.