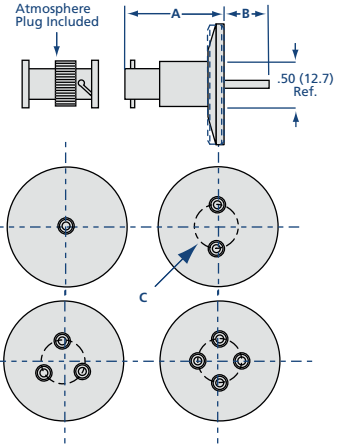




BNC Coaxial Feedthroughs

The BNC (Bayonet Naval Connection) electrical feedthrough consists of two concentric conductor paths which are separated and insulated with high-purity alumina ceramic. It is commonly used in 50 to 70 ohm low power instrumentation lines.



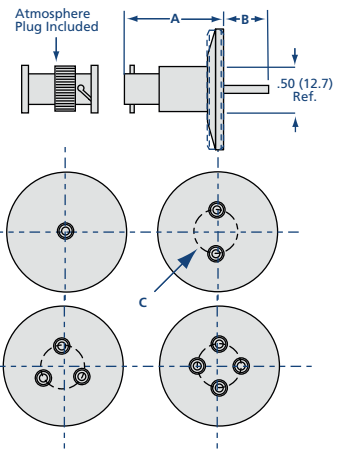
SPECIFICATIONS

Materials
Flange: 304 stainless steel
Conductors: Stainless steel
Insulator: Alumina ceramic
Electrical
Voltage: 500 VDC @10 ⁻⁴ mbar
Current: 3 Amps
Connector: Use with vacuum connector BNC-VC (see below), atmosphere connector included
Vacuum range
Metal seal: ≥10 ⁻¹⁰ mbar (UHV)
Elastomer seal: ≥10 ⁻⁸ mbar (High vacuum)
Temperature range
Metal seal: -270°C to 450°C
Elastomer seal: -20°C to 200°C

MODEL NUMBER	FLANGE	NUMBER OF FEEDTHROUGHS	A	B	C
BNC-NW-16-1	NW-16	1	1.43 (36.32)	0.32 (8.13)	-
BNC-NW-25-1	NW-25	1	1.43 (36.32)	0.32 (8.13)	-
BNC-NW-40-1	NW-40	1	1.33 (33.78)	0.42 (10.67)	-
BNC-NW-40-2	NW-40	2	1.33 (33.78)	0.42 (10.67)	0.75 (19.05)
BNC-NW-40-3	NW-40	3	1.33 (33.78)	0.42 (10.67)	0.75 (19.05)
BNC-NW-40-4	NW-40	4	1.43 (36.32)	0.32 (8.13)	0.90 (22.86)
BNC-NW-50-1	NW-50	1	1.33 (33.78)	0.42 (10.67)	-
BNC-NW-50-2	NW-50	2	1.33 (33.78)	0.42 (10.67)	0.75 (19.05)
BNC-NW-50-3	NW-50	3	1.33 (33.78)	0.42 (10.67)	0.75 (19.05)
BNC-NW-50-4	NW-50	4	1.33 (33.78)	0.42 (10.67)	0.90 (22.86)
BNC-075-1	1.33 CF	1	1.41 (35.81)	0.34 (8.64)	-
BNC-150-1	2.75 CF	1	1.38 (35.05)	0.37 (9.4)	-
BNC-150-2	2.75 CF	2	1.38 (35.05)	0.37 (9.4)	0.95 (24.13)
BNC-150-3	2.75 CF	3	1.38 (35.05)	0.37 (9.4)	0.95 (24.13)
BNC-150-4	2.75 CF	4	1.38 (35.05)	0.37 (9.4)	0.95 (24.13)

MHV Coaxial Feedthroughs

The MHV (Miniature High Voltage or High Voltage BNC) electrical feedthroughs operate in medium to high power with higher voltage requirements. MHV and BNC feedthroughs look similar but are very different in electrical rating. They should never be cross-mated since their electrical ratings are not compatible.



SPECIFICATIONS

Materials
Flange: 304 stainless steel
Conductors: Stainless steel
Insulator: Alumina ceramic
Electrical
Voltage: 5 KV
Current: 3 Amps
Connector: Use with vacuum connector MCF-VC (see below), atmosphere connector included
Vacuum range
Metal seal: ≥10 ⁻¹⁰ mbar (UHV)
Elastomer seal: ≥10 ⁻⁸ mbar (High vacuum)
Temperature range
Metal seal: -270°C to 450°C
Elastomer seal: -20°C to 200°C

MODEL NUMBER	FLANGE	NUMBER OF FEEDTHROUGHS	A	B	C
MHV-NW-16-1	NW-16	1	1.43 (36.32)	0.25 (6.35)	-
MHV-NW-25-1	NW-25	1	1.43 (36.32)	0.25 (6.25)	-
MHV-NW-40-1	NW-40	1	1.33 (33.78)	0.35 (8.89)	-
MHV-NW-40-2	NW-40	2	1.33 (33.78)	0.35 (8.89)	0.75 (19.05)
MHV-NW-40-3	NW-40	3	1.33 (33.78)	0.35 (8.89)	0.75 (19.05)
MHV-NW-40-4	NW-40	4	1.43 (36.32)	0.25 (6.35)	0.90 (22.86)
MHV-NW-50-1	NW-50	1	1.33 (33.78)	0.35 (8.89)	-
MHV-NW-50-2	NW-50	2	1.33 (33.78)	0.35 (8.89)	0.75 (19.05)
MHV-NW-50-3	NW-50	3	1.33 (33.78)	0.35 (8.89)	0.75 (19.05)
MHV-NW-50-4	NW-50	4	1.33 (33.78)	0.35 (8.89)	0.90 (22.86)
MHV-075-1	1.33 CF	1	1.41 (35.81)	0.27 (6.86)	-
MHV-150-1	2.75 CF	1	1.38 (35.05)	0.30 (7.62)	-
MHV-150-2	2.75 CF	2	1.38 (35.05)	0.30 (7.62)	0.95 (24.13)
MHV-150-3	2.75 CF	3	1.38 (35.05)	0.30 (7.62)	0.95 (24.13)
MHV-150-4	2.75 CF	4	1.38 (35.05)	0.30 (7.62)	0.95 (24.13)

Electrical Feedthrough Connectors

MODEL NUMBER	USE WITH	MATERIAL	MAXIMUM CURRENT (AMPS)	QUANTITY
MCF-VC	Medium Current	Beryllium Copper with SS Screws	100	10 per Pkg.
BNC-VC	BNC and MHV	Beryllium Copper with SS Screws	15	10 per Pkg.
IFT-VC	8-Pin Instrumentation	Beryllium Copper	10	10 per Pkg.

