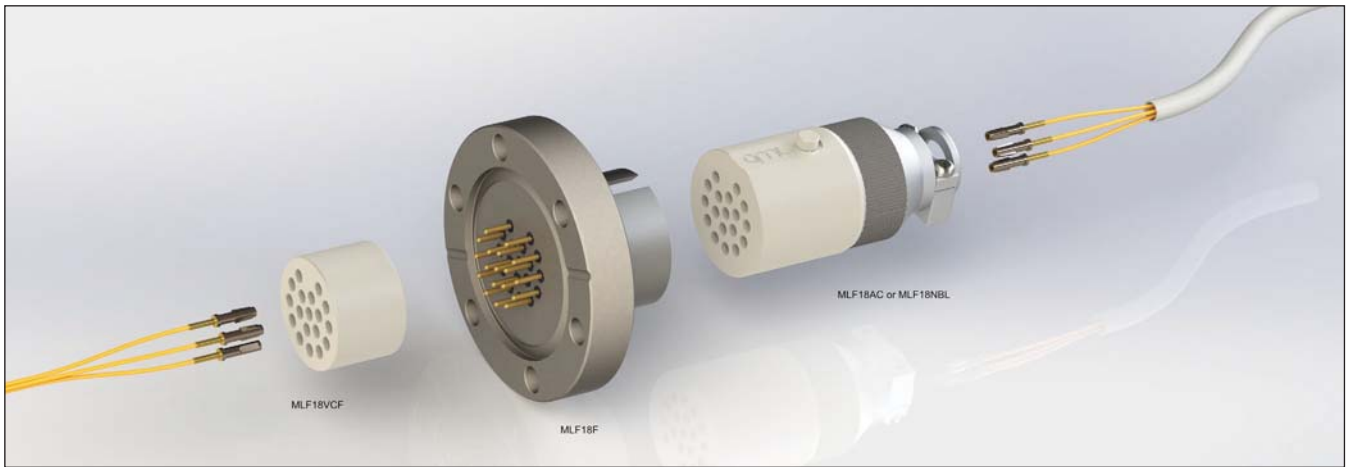


MLF18 Accessories

Ultra High Vacuum Feedthrough & Accessories

AML produce a range of wiring accessories to complement their UHV compatible stepper motors. These components make installation of motors and other electrical items in vacuum much easier.



MLF18F

18-way feedthrough on a NW35CF (70mm OD) flange which mates with the MLF18VCF UHV connector, MLF18AC air-side connector or the MLF18NBL lead. It has individual glass compression seals with 1.5mm diameter gold-plated pins and is bakeable to 250°C. For non-motor applications observe the maximum ratings of 200V, 5A maximum per pin and 15A maximum per feedthrough.



MLF18AC

Air-side connector which mates with the MLF18F feedthrough. Bakeable to 250°C. Use this for manufacturing your own air-side leads.



MLF18VCF

18-way electrical female PEEK connector for use in UHV and is bakeable to 250°C. It mates with the MLF18F feedthrough and the MLF18VCM male connector. The gold plated, barbed crimp-contacts are attached to wires before insertion into the body and removed with a standard pin extraction tool if required. All AML motors are supplied with this type of crimp-contacts.

MLF18VCM

Male counterpart of the MLF18VCF.



MLF18L

3-meter, 250°C bakeable lead for use with AML stepper motor drives and up to 3 motors installed in one vacuum chamber. It mates with the MLF18F feedthrough.



MLF18NBL

3-meter non-bakeable lead for use with AML stepper motor drives and up to 3 motors installed in one vacuum chamber. It mates with the MLF18F feedthrough.



PWB

Set of 4, 250°C bakeable PEEK wiring bushes and M3 x 16mm vented screws. The four phase wires and thermocouple from a single motor are a light fit in the hole in the bush. Use one in situations where a 'P' clip would be used in air.

VTB6

6-way 250°C bakeable PEEK terminal block. Rating 2A per way, 200V and is compatible with all AML polyimide-covered wires. Supplied with M3 fixing screws, washers and nuts.

BC1.5

Pack of 10 barrel connectors 1.5mm bore.



MLF18SKT

Bag of 20 replacement crimp-contacts for use with MLF18VCF and MLF18AC.

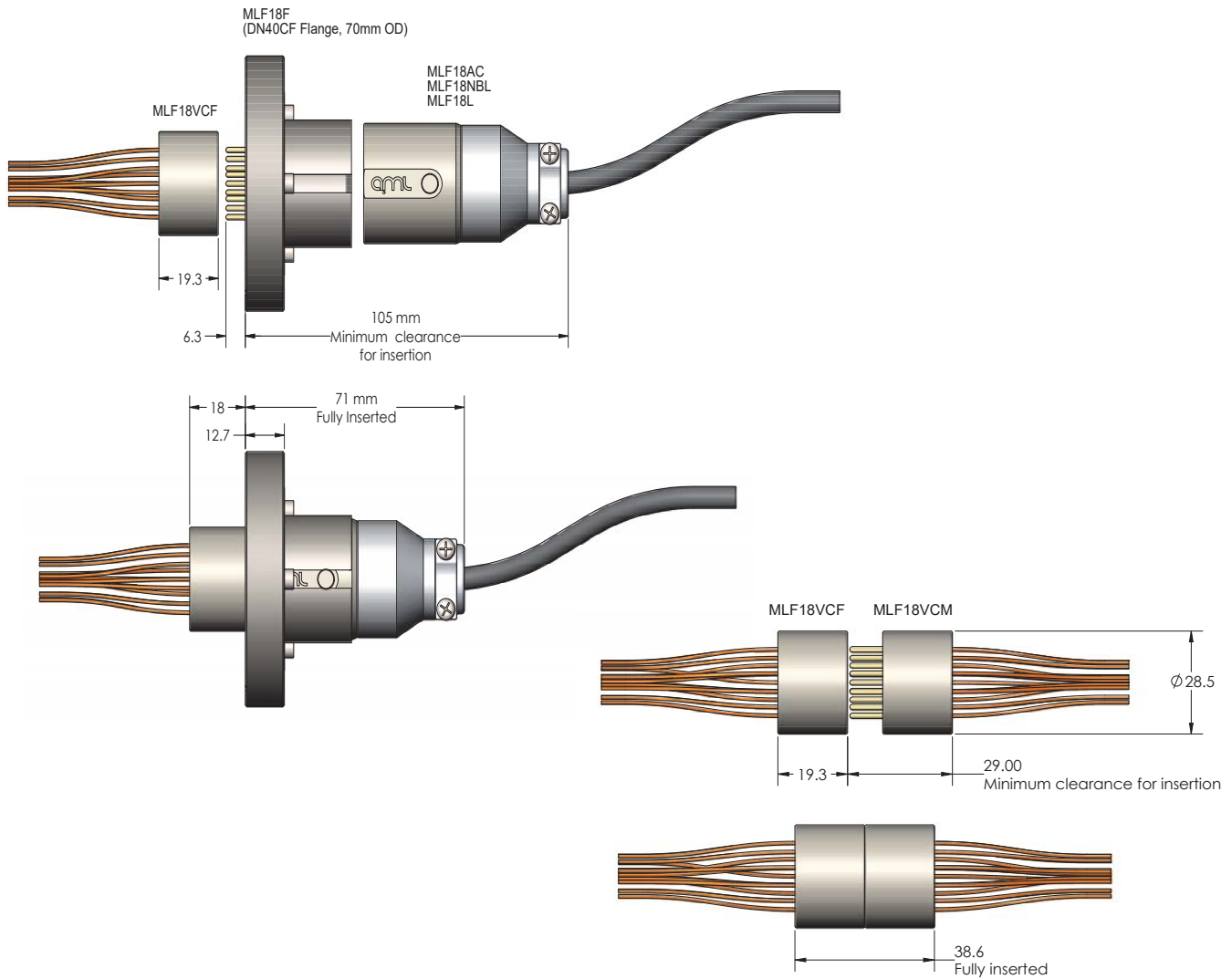
MLF18PIN

Bag of 20 replacement crimp-contacts for use with MLF18VCM.

XCR24. Crimp tool for MLF18 crimp contacts.

XPX24. Pin extraction tool for MLF18 crimp contacts.

DIMENSIONS



ORDERING INFORMATION

Order Code	
MLF18F	Feedthrough, 18-way
MLF18VCF	In-vacuum female connector, 18-way
MLF18VCM	In-vacuum male connector, 18-way
MLF18AC	Air side connector, 18-way
MLF18L	SMD210 air side lead, 3m, bakeable
MLF18NBL	SMD210 air side lead, 3m non-bakeable
PWB	PEEK wiring bush x 4
VTB6	PEEK terminal block, 6-way
BC1.5	Barrel connectors. Pack of 10
MLF18SKT	Socket crimp, 24AWG. Bag of 20
MLF18PIN	Pin contact crimp, 20AWG. Bag of 20
XCR24	Crimp tool
XPX24	Pin extraction tool



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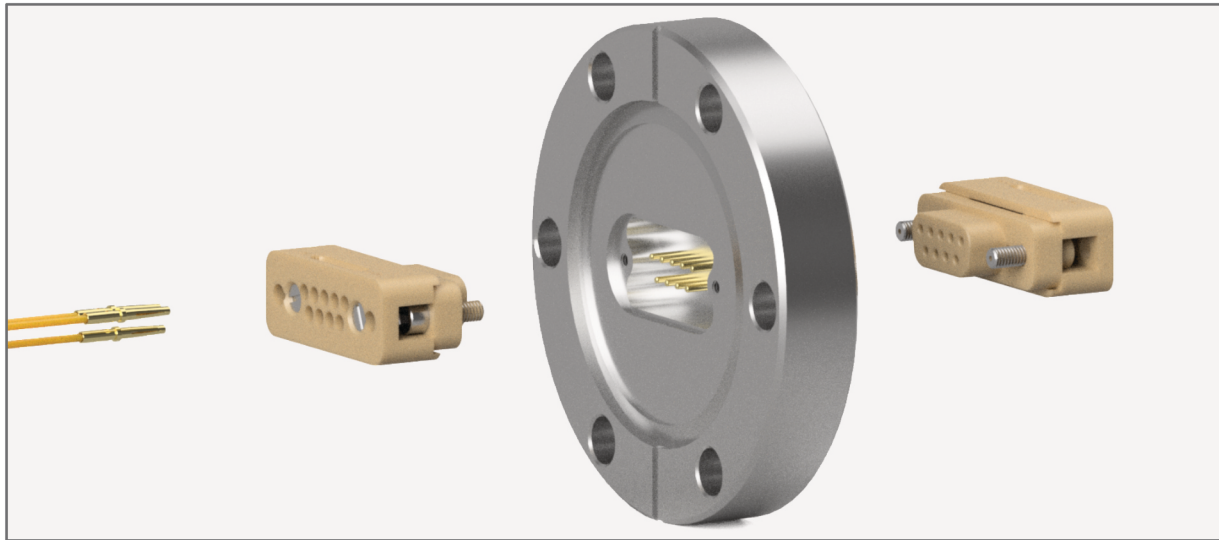
AML pursues a policy of continuous improvement and reserves the right to make detail changes to specifications without consultation. E and OE.

www.arunmicro.com

D-Subminiature Accessories

Ultra High Vacuum D-sub Feedthroughs, Connectors and Accessories

AML produce a range of accessories to complement our UHV compatible products. The D-Subminiature feedthroughs, connectors and accessories support the ease of use and performance of AML stepper motors and stages.



FEEDTHROUGHS



VF9D-40CF

D-sub 9-way feedthrough on a DN40 CF flange (70 mm OD). Individual glass-ceramic compression seals and bakeable to 250°C. Suitable for use to 1.3×10^{-10} mBar (1×10^{-10} Torr). Male to male connection. 1.01mm gold plated pins. Rating. 500V, 5 A per pin (max 20% of pins).



VF15D-63CF

D-sub 15-way feedthrough on a DN63 CF flange (114 mm OD). Individual glass-ceramic compression seals and bakeable to 250°C. Suitable for use to 1.3×10^{-10} mBar (1×10^{-10} Torr). Male to male connection. 1.01mm gold plated pins. Rating. 500V, 5 A per pin (max 20% of pins).

CONNECTORS



VC9DF

UHV, bakeable D-sub connector. 9-way female connectors available for mating with the VF9D-40CF feedthroughs. Suitable for use to 1.3×10^{-10} mBar (1×10^{-10} Torr).



VC15DF

UHV, bakeable D-sub connector. 15-way female connectors available for mating with the VF15D-63CF feedthroughs. Suitable for use to 1.3×10^{-10} mBar (1×10^{-10} Torr).

PINS AND TOOLING



XCRDSUB

Crimp tool for D-sub connectors.

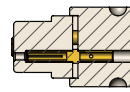
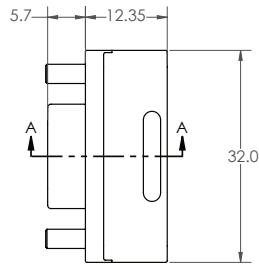
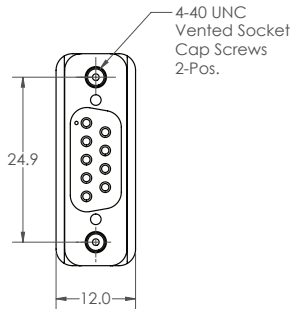
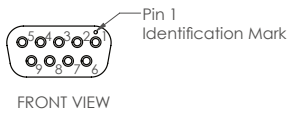
VCDSKT

D-sub female crimp sockets. Bag of 10.

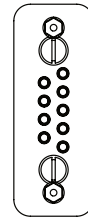
DIMENSIONS

VC9DF

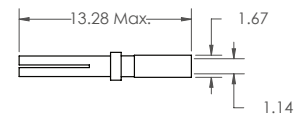
Pin Number Locations



SECTION A-A

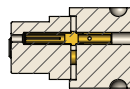
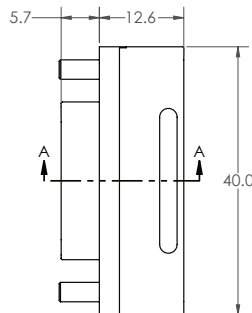
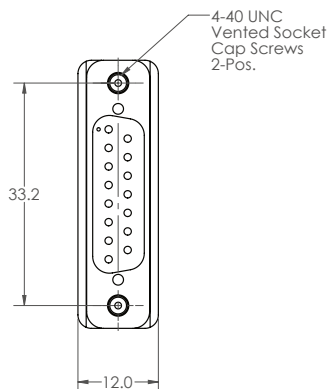
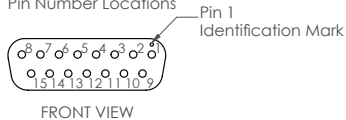


20-24 AWG Machined D-Sub Socket Crimp
P/N 030-1953-000

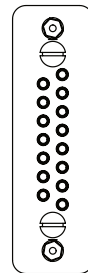


VC15DF

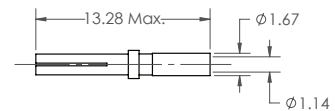
Pin Number Locations



SECTION A-A



20-24 AWG Machined D-Sub Socket Crimp
P/N 030-1953-000



ORDERING INFORMATION

Order Code	
VF9D-40CF	D-Subminiature 9-Way Feedthrough
VF15D-63CF	D-Subminiature 15-Way Feedthrough
VC9DF	D-Subminiature 9-Way PEEK Connector
VC15DF	D-Subminiature 15-Way PEEK Connector
XCRDSUB	Crimp Tool for D-sub Connectors
VCDSKT	D-Subminiature Pins and Tooling. Bag of 10



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VCC7 - In-Vacuum Connectors

