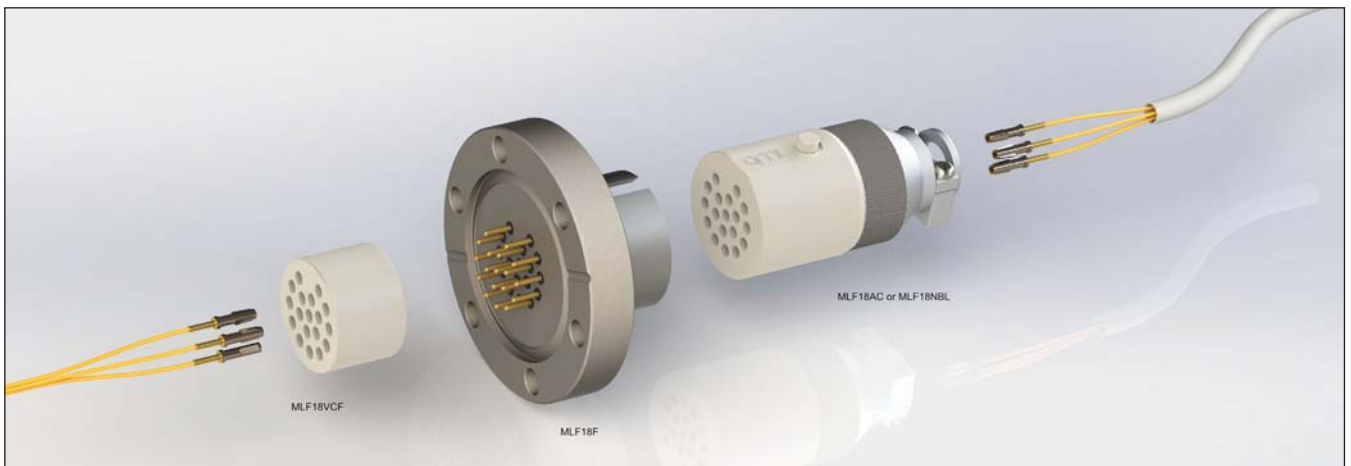


# MLF18 Accessories

## 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.

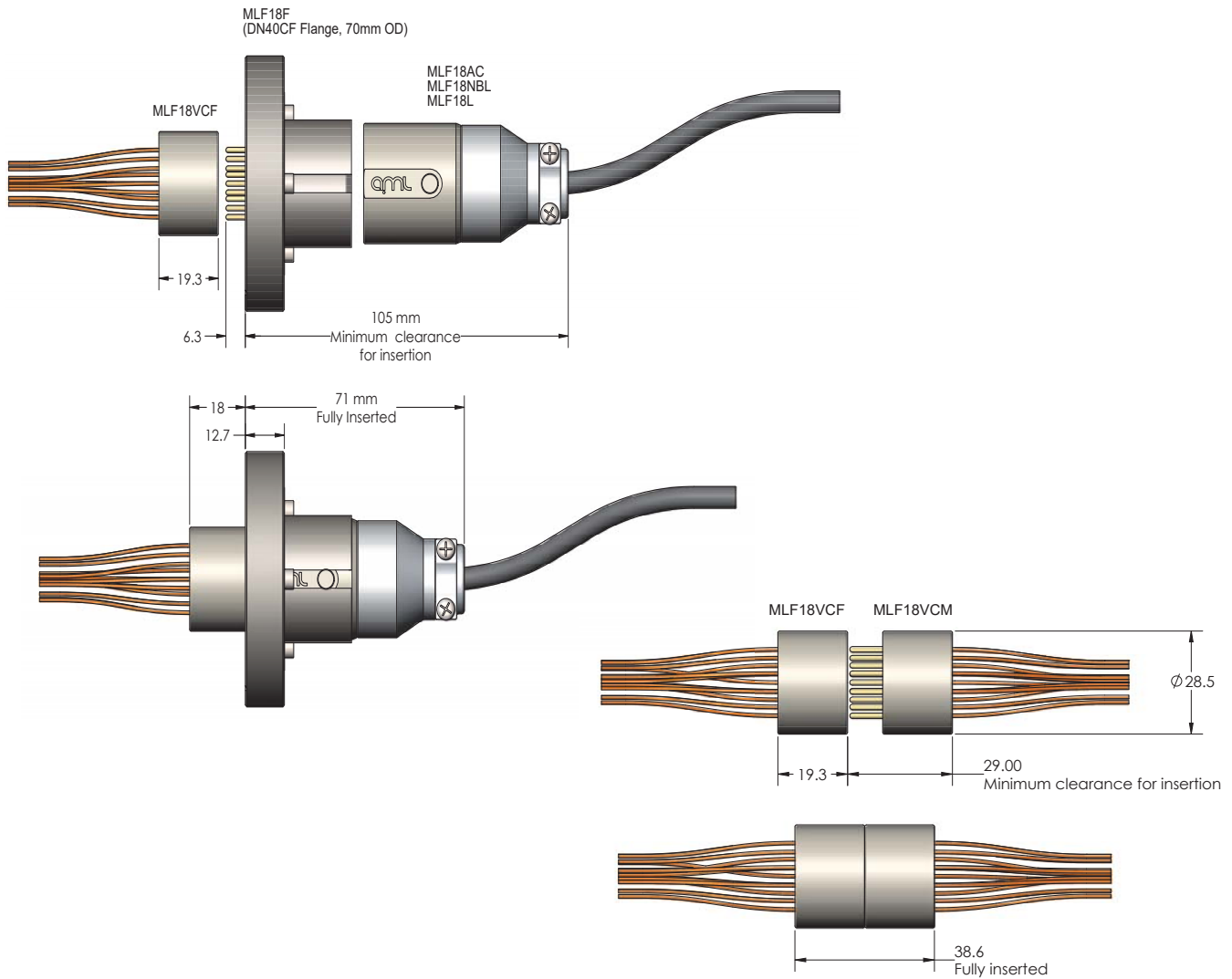
#### **MLF18PIN**

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.

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