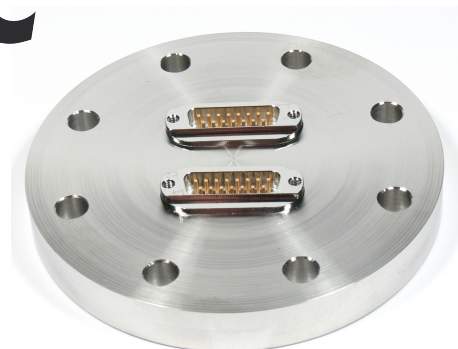


High Current Standard Sub-D Feedthroughs -210-Dxx-Cxx-HC and related products



Standard Sub-D feedthroughs can now be used for much higher current ratings. New crimp pin technology and thicker in-vacuum cables have doubled the continuous current per pin – up to 6A with all pins loaded, and 10A for periods shorter than 5 minutes. For crimping, you will need special crimp pins.



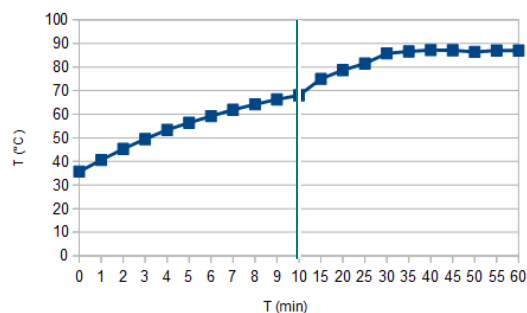
Specifications Feedthroughs, connectors and cable

FEEDTHROUGHS	
Versions	Sub-D 9 / 15 / 25 / 37 50 pin according DIN41652, MIL-C-24308
Vacuum range	UHV, $<10^{-10}$ mbar
Leak rate	$<5 \times 10^{-10}$ mbar l/s He (individually tested)
Temp. range	-200°C ... 230°C
Test Voltage	500V DC (individually tested)
Current rating	6A continuous, up to 10A for 5 min. (with HC-Pins and 1.3mm \varnothing cable)
CRIMP PINS	
Art. No.	212-PINF-25-HC (25 off female pins) 212-PINM-25-HC (25 off male pins) (packs with 10 / 15 / 25 pins are available)
Compatible	fit into all vacuum housings
Max. cable diameter	1.3 mm
Type	Crimp pin, solder possible
CABLE	
Art. No.	311-KAPM-130-RAD-10M (10m spool) other lengths on request
Conductor	1,3mm \varnothing multi-strand wire (19x0.25mm) Silver plated copper, Kapton insulation
Radiation resistant	YES 10^9 rad
AIR SIDE CONNECTORS	
Rated up to 7.5 A	211-FSxx-AIR-HC (xx= 09/15/25/37/50)

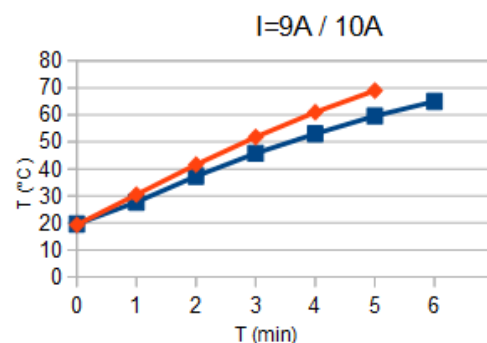
Cable and crimp pins can also be used with standard feedthroughs.

2x High Current (HC) 15-pin feedthroughs on a 63CF flange

With 30 pins, these feedthroughs can transport 180A continuously or up to 300A for a short time into the vacuum system



Temperature measured on a 25-pin Sub-D HC f/t at 7A (all pins loaded, so 175A in total). The max. reached temperature stays below 90°C.



Temperature versus time with 9 A (blue) and 10A (red) current per pin, all pins loaded.

All tests were done at room temperature of ~20°C

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

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