HV+: High Temperature HV SUB-D connectors 211-FSxx-HV-PLUS and 211-MSxx-HV-PLUS

HV+

Allectra have developed a new high vacuum connector HV+ for Sub-D feedthroughs which offers superior handling and high temperature compatibility up to 230°C.

The simple handling – similar to standard air side connectors- makes it suitable for industrial applications where fast installation times are essential. Crimp pins can be crimped to cables and inserted from the back. Allectra also offers suitable metal housings with strain relief for in-vacuum use.

The high temperature specification and low outgassing guarantee compatibility with the most exacting processes.

211-FS15-HV-PLUS

	HV+ Connectors
Vacuum range	1x 10^{-9} mbar
Temperature range	-55°C … +200°C continuous up to 230°C for 12h
Materials	Stainless Steel outer shell Glass filled liquid crystal polymer
Water absorption in air	0.04%
Fitting pins	All Sub-D pins, including thermocouples
Compatible housings	All Allectra HV housings
Pin removal tool	214-CRIMPINS-PRO-2
Total height of connector (FS)	17.9mm
Sizes available	Female: D09 / D15 / D25 / D37 / D50 Male: D09 / D15 / D25 / D37

Advantages

- High temperature use up to 230°C
- Cables can be pre-fitted with crimp pins; installation time is significantly reduced
- Low outgassing rates and high temperature materials are compatible with a wide range of applications
- Using 230°C O-rings for instance from Biallec, KF /ISO-flanged feedthroughs can be used at elevated temperatures
- Longer housing on the rear protect cables against short-circuiting

www.allectra.com
allectra GmbH, Traubeneichenstr. 62-66, D-16567 Schönfliess, Tel: +49-(0)33056 787 78-0 Fax: -5, e-mail: info@allectra.com
allectra Ltd, Bluebell Business Estate, Sheffield Park, TN22 3HQ, UK T:+44 1825 721 900, F: +44 1825 721 909, uk@allectra.com

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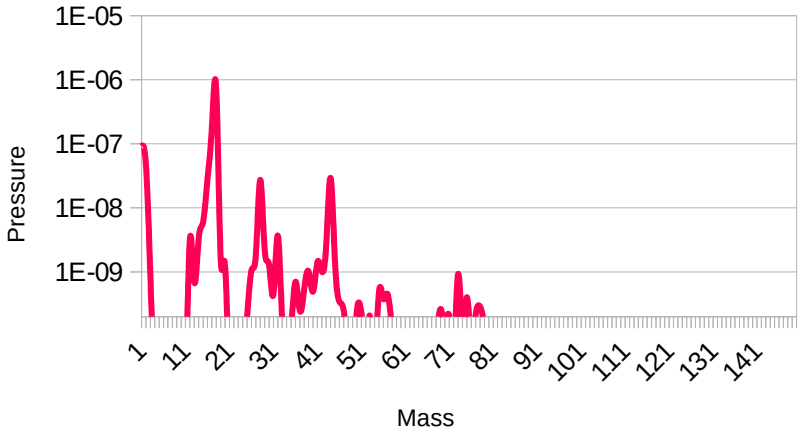

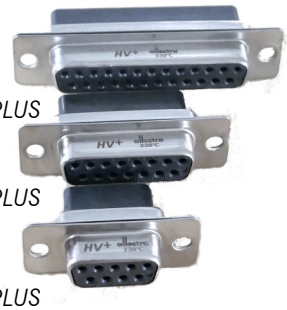

211-FS25-HV-PLUS

211-FS15-HV-PLUS

211-FS09-HV-PLUS

Mass spectrum of 20 connectors heated simultaneously to 160°C in our test chamber. The system was unbaked. As to be expected the main resudial gas was water. No Hydrocarbons were detected.

The special liquid crystal polymer is chlorine and fluorine free, and does not contain any heavy elements.

The test used an RGA with a faraday cup sensor, with a sensitivity limit of 1x 10^{-9} mbar.

211-FS25-HV-PLUS

allectra GmbH, Traubeneichenstr. 62-66, D-16567 Schönfliess, Tel: +49-(0)33056 787 78-0 Fax: -5, e-mail: info@allectra.com
allectra Ltd, Bluebell Business Estate, Sheffield Park, TN22 3HQ, UK T:+44 1825 721 900, F: +44 1825 721 909, uk@allectra.com