

# accessories

## adapter and extension cables

**piezosystem jena** delivers all open loop standard translation systems and positioning stages with a cable length of 1m (approx. 40 inches). Systems with integrated capacitive feed back sensors come with 1.6m cable length. Systems with strain gage feed back sensors have a cable length of 1.2m. Systems which have a part number that is extended by the suffix "E" or "D" come with a total cable length of 2m (80 inches).

Please see chapter: "elements with integrated measurement system" page: 71. All systems prepared for vacuum applications are delivered with 0.6m (24.25 inches) polyamid insulated copper wires without connectors for use inside the vacuum. Separate cables with connectors may be included for use outside the vacuum if a power supply is ordered. Airside cable length is 2m (80 inches).

**piezosystem jena** offers a wide range of accessories and adapter cables. Please note, each cable extension, or changing of an existing cable configuration may influence the performance of the system, especially systems with integrated feed back sensors. These systems should be recalibrated after the cable configuration has been changed to keep the full system specification available.

### connectors

part no.	connector	intended use
Z-006-20	LEMO plug 2pin 0S.302	piezo voltage
Z-006-21	LEMO female 2pin 0S.302	piezo voltage
Z-006-30	LEMO plug 6pin 1S.306	SG sensor
Z-006-31	LEMO female 6pin 1S.306	SG sensor
Z-006-40	LEMO plug 4pin 0S.304	SG sensor
Z-006-41	LEMO female 4pin 0S.304	SG sensor
Z-006-50	BNC plug	monitor
Z-006-51	BNC female	monitor
Z-006-60	ODU plug 3pin series L	piezo voltage (nanoX)
Z-006-61	ODU female 3pin series L	piezo voltage (nanoX)
Z-006-64	ODU plug 4pin series L	external sensor
Z-006-65	ODU female 4pin series L	external sensor
Z-006-70	SMB straight for RG174	monitor



Z-006-30



Z-006-31



Z-006-50



Z-006-51



Z-006-70

### extension cables

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Please look just the examples given below and use this scheme to give necessary information to order it:

intended use	connector	connector	length
monitor	SMB plug	BNC plug	1 m
piezo voltage	LEMO plug 2pin 0S.302	LEMO female 2pin 0S.302	2 m
external sensor	ODU plug 4pin series L	ODU female 4pin series L	2 m
SG sensor	LEMO plug 4pin 0S.304	LEMO female 4pin 0S.304	1 m



monitor



piezo voltage

accessories

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### vacuum option

Almost all piezo translators from **piezo-system jena** can be modified to used in vacuum. The option Z-200-01 is available for vacuum in the range up to  $10^{-7}$ mbar. Option Z-200-02 describes modification for vacuum range up to  $10^{-10}$ mbar. PZT ceramics from piezosystem jena can be baked up to 120°C. Elements with special preparation can be baked out up to 150°C (300°F). All translation stages possess vent holes. The cable length in vacuum is 0.6m, outside vacuum 2m. Special CAPTON cable (Z-005-00) is available upon request. We provide the customer with a wide range of vacuum feedthroughs. Please note vacuum systems, equipped with a capacitive position feed back sensor must be calibrated with a feedthrough every time. Otherwise **piezo-system jena** can not guarantee the specified values for these systems.

Z-300-11 Triax



Z-300-20 2pin



Z-300-14 3pin



Z-400-60 6pin



Z-400-10 4pin

### vacuum feedthrough, suitable up to $10^{-7}$ mbar

type	part no.	size
Triax for capacitive sensor	Z-300-11	0S
3pin for piezo voltage nanoX principle	Z-300-14	0S
2pin for piezo voltage	Z-300-20	0S
4pin for strain gage sensor	Z-400-10	0S
6pin for piezo voltage and strain gage	Z-400-60	1S

### vacuum flange, suitable up to $10^{-7}$ mbar



Z-910-610

type	size of flange	number of feedthrough	fitting for	part no.
vacuum flange	CF40	1	LEMO 1S	Z-910-411
vacuum flange	CF40	1	LEMO 0S	Z-910-410
vacuum flange	CF40	2	LEMO 0S	Z-910-420
vacuum flange	CF40	3	LEMO 0S	Z-910-430
vacuum flange	CF63	1	LEMO 1S	Z-910-611
vacuum flange	CF63	1	LEMO 0S	Z-910-610
vacuum flange	CF63	2	LEMO 0S	Z-910-620
vacuum flange	CF63	2	LEMO 1S	Z-910-621
vacuum flange	CF63	3	LEMO 1S	Z-910-631
vacuum flange	CF63	3	LEMO 0S	Z-910-630
vacuum flange	CF63	4	LEMO 0S	Z-910-640
vacuum flange	CF63	6	LEMO 0S	Z-910-660

### vacuum flange, suitable up to $10^{-10}$ mbar

types	part no.
Sub-miniature D-type feedthrough	Z-910-44
BNC feedthrough	
combination of D-type and BNC	please contact our sales