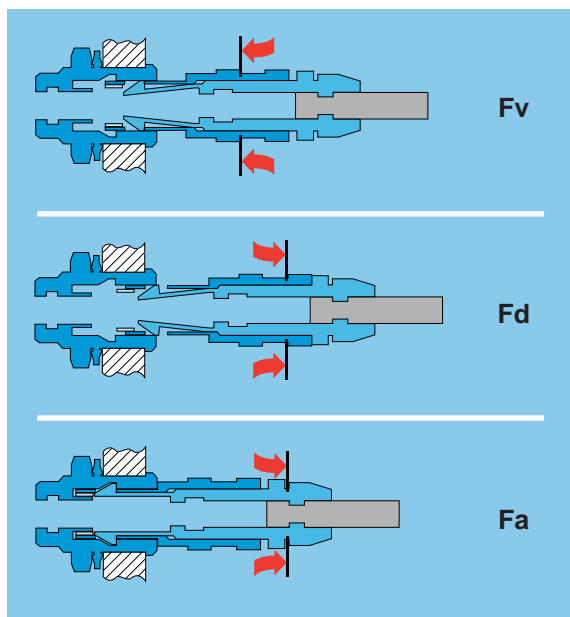


Mechanical latching characteristics



F_v : average latching force.

F_d : average unmating force with axial pull on the outer shell.

F_a : average pull force with axial pull on the collet nut

Notes: forces were measured on outer shells **not fitted with contacts**.

Mechanical endurance: 5000 cycles.

Mechanical endurance represents the number of cycles after which the latching system is still effective (1 cycle = 1 latching/unlatching at 300 cycles per hour). The values were measured according to the standard IEC 60512-7 test 13a.

Electromagnetic compatibility (EMC) and shielding efficiency

The electromagnetic compatibility of a device can only be ensured by meeting a number of basic rules with the design of the device and by carefully selecting components, cables and connectors.

Electrical and electronic devices are to be designed to ensure the following:

- reduce the emission of generated electromagnetic disturbance to a level where radios and telecommunication and other devices can properly function;
- electromagnetic immunity against electromagnetic disturbance so that they can properly function.

When selecting a connector, screen or shielding efficiency and low resistance to electric continuity between the cable and the connector should be considered.

The design of LEMO connectors with metal shell and earthing crown guarantee optimum shielding efficiency in all applications where electromagnetic compatibility (EMC) is critical.

The performance of a connector is measured through shielding efficiency, a value that represents the ratio between the electromagnetic field on the outside and the inside of the shell. Our measurements are carried out according to the IEC 60169-1-3 standard.

Standard series

Force (N)	Series									
	00	0S	1D	1S	2C	2S	3S	4S	5S	6S
F_v	9	14	14	15	12	17	20	40	60	70
F_d	7	9	11	10	12	11	14	25	40	55
F_a	120	140	300	250	400	350	500	650	750	900

Watertight series

Force (N)	Series									
	0E	0L	1E	1L	2E	2L	3E	4E	5E	6E
F_v	14	14	16	16	20	20	32	65	85	100
F_d	9	9	10	10	13	13	25	40	60	75
F_a	250	250	300	300	400	400	550	700	800	900

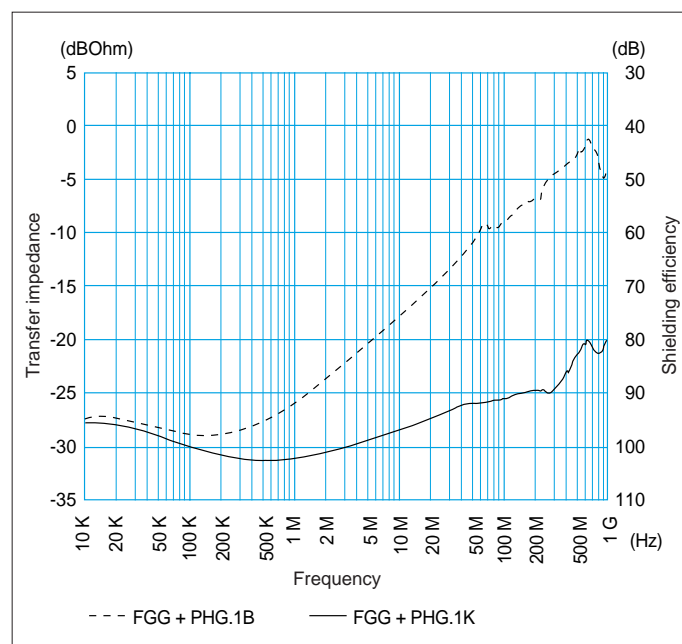
Keyed series

Force (N)	Series							
	00	0B	1B	2B	2G	3B	4B	5B
F_v	9	10	14	15	12	17	39	48
F_d	7	8	11	12	12	14	38	38
F_a	120	250	300	400	400	550	700	800

Keyed watertight series

Force (N)	Series					
	0K	1K	2K	3K	4K	5K
F_v	14	16	20	32	65	85
F_d	9	10	13	25	40	60
F_a	250	300	400	550	700	800

Notes: 1N = 0.102 kg.



The performance of S and B series connectors is comparable to the results of measurements carried out on a pair of FGG + PHG.1B connectors.

The performance of E and K series connectors is comparable to the results of measurements carried out on a pair of FGG + PHG.1K connectors.