

MULTI CONCENTRIC CONTACT CONNECTOR



A new range of products dedicated to setups where connectors need to allow some rotation. Similar to coaxial or triaxial connector, these precision engineered connectors include multiple concentric electrical contacts.

The number of contacts range from 4 to 10 contacts available in various shell sizes.

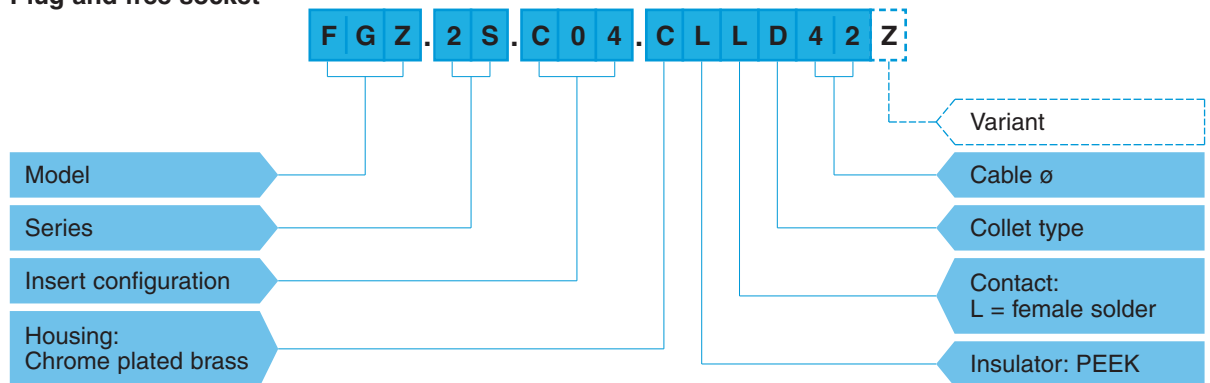
These contacts are designed for low speed rotation, can last up to 10000 rotation cycles.

Unlike coaxial or triaxial connectors these connector are not impedance controlled.

The contacts are recessed and scoop proof. Applications include petroleum downhole drilling systems, turret application, in other words applications where the connection may require to twist freely (instrumentation mast).

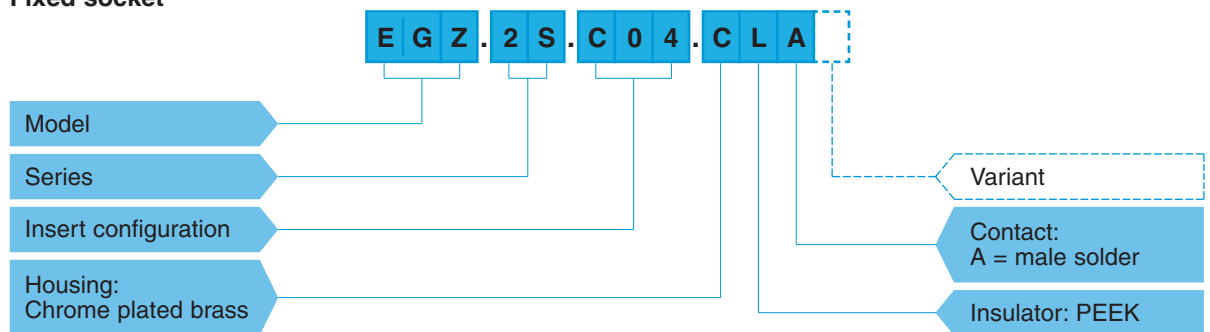
Part Numbering System

Plug and free socket



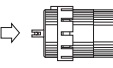
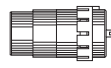
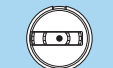
FGZ.2S.C04.CLLD42Z = Straight plug, cable collet, 2S series, concentric type with 4 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts, D type collet for 4.2 mm diameter cable and nut for fitting a bend relief.

Fixed socket



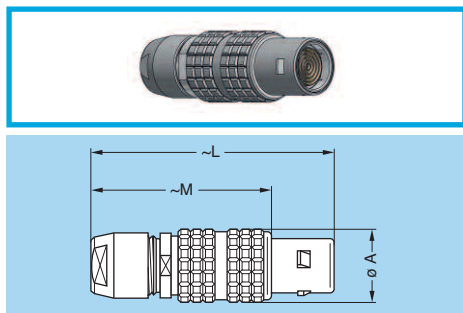
EGZ.2S.C04.CLA = Fixed socket, nut fixing, 2S series, concentric type with 4 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts.

Insert configuration and electrical characteristics

Number of LV contacts	Male contacts	Female contacts	Reference	Series		Solder contact	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
				Standard	Watertight				
4			C04	2S	2E	●	0.60	0.85	5.5
5			C05	3S	3E	●	0.60	0.85	6.0
6			C06	4S	4E	●	0.60	0.85	6.0
8			C08	YS	—	●	0.60	0.85	6.5
10			C10	5S	5E	●	0.60	0.85	7.0

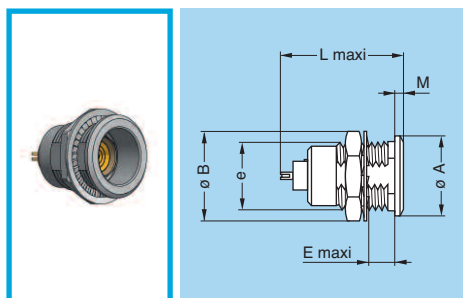
Models

FGZ Straight plug, cable collet



Reference		Dimensions (mm)		
Model	Series	A	L	M
FGZ	2S	15.0	50.0	38.0
FGZ	3S	18.8	58.0	43.0
FGZ	4S	25.0	75.0	57.0
FGZ	5S	35.0	103.0	78.0

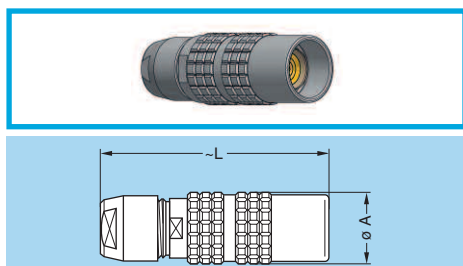
EGZ Fixed socket, nut fixing



Reference		Dimensions (mm)					
Model	Series	A	B	e	E	L	M
EGZ	2S	18.0	19.2	M15x1.0	8.5	25.0	1.8
EGZ	3S	22.0	25.0	M18x1.0	11.5	29.2	2.0
EGZ	4S	28.0	34.0	M25x1.0	12.0	33.0	2.5
EGZ	5S	40.0	40.0	M35x1.0	11.0	40.7	3.0

Note: The 5S series is delivered with a tapered washer and a round nut.

PGZ Free socket, cable collet



Reference		Dim. (mm)	
Model	Series	A	L
PGZ	2S	16.5	47.0
PGZ	3S	18.8	56.0
PGZ	4S	26.0	73.0
PGZ	5S	36.0	99.0

Collets (D type)

	Reference		Collet $\varnothing$		Cable $\varnothing$		Notes
	Type	Code	$\varnothing$ A	$\varnothing$ B	max.	min.	
2S	D	42	4.2	—	4.2	> 3.2	
	D	52	5.2	—	5.2	> 4.2	
	D	62	6.2	—	6.2	> 5.2	
	D	72	7.2	—	7.2	> 6.2	
	D	82	8.2	—	8.2	> 7.2	
	D	92	9.2	8.6	9.2	> 8.2	
	D	99	9.9	8.6	9.9	> 9.2	1)
	D	12	12.0	10.2	11.9	10.8	1)
3S	D	62	6.2	—	6.2	4.9	
	D	72	7.2	—	7.7	> 6.2	
	D	92	9.2	—	9.2	> 7.7	
	D	10	10.2	—	10.0	> 9.2	
	D	12	12.0	10.2	11.9	10.8	1)

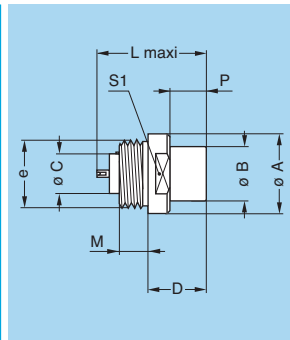
	Reference		Collet $\varnothing$		Cable $\varnothing$		Notes
	Type	Code	$\varnothing$ A	$\varnothing$ B	max.	min.	
4S	D	10	10.8	—	10.5	9.1	
	D	12	12.3	—	12.0	10.6	
	D	13	13.8	12.5	13.5	12.1	
	D	15	15.3	12.5	15.0	13.6	
	D	16	16.3	12.5	16.0	15.1	1)
	D	11	11.8	—	11.5	9.6	
5S	D	13	13.8	—	13.5	11.6	
	D	15	15.8	—	15.5	13.6	
	D	17	17.8	—	17.5	15.6	1)
	D	19	19.8	—	19.5	17.6	1)
	D	21	21.8	—	21.5	19.6	1)
	D	23	23.8	21.8	23.5	21.6	1)
	D	25	25.3	21.8	25.0	23.6	1)
	D	11	11.8	—	11.5	9.6	
	D	13	13.8	—	13.5	11.6	

Note: all dimensions are in millimetres.

1) these collets cannot be used for connector models with nut for fitting a bend relief.

Special reduced shell without latching models, NOT scoop proof

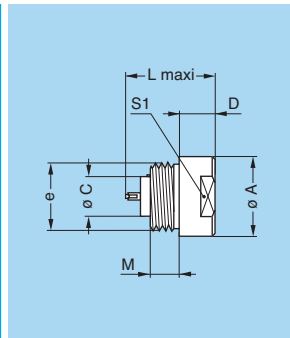
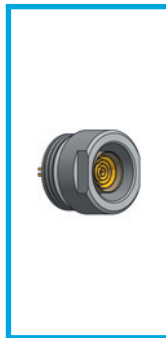
FAA Fixed plug (only compatible with EHP)



Reference		Dimensions (mm)							
Model	Series	A	B	C	e	D	L	M	P
FAA	2S	18.0	12.0	8.95	M16x1.5	12.5	26.2	7.5	8.0
FAA	3S	22.0	15.0	10.95	M20x1.5	16.0	30.2	8.0	10.0
FAA	4S	25.0	18.0	13.95	M22x1.5	17.0	33.2	10.0	10.0
FAA	YS	30.0	23.0	18.70	M27x1.5	21.0	40.7	13.5	13.0
FAA	5S	35.0	27.0	22.90	M32x1.5	21.0	40.7	13.5	13.0

Part number example: FAA.●S.C●.YLL

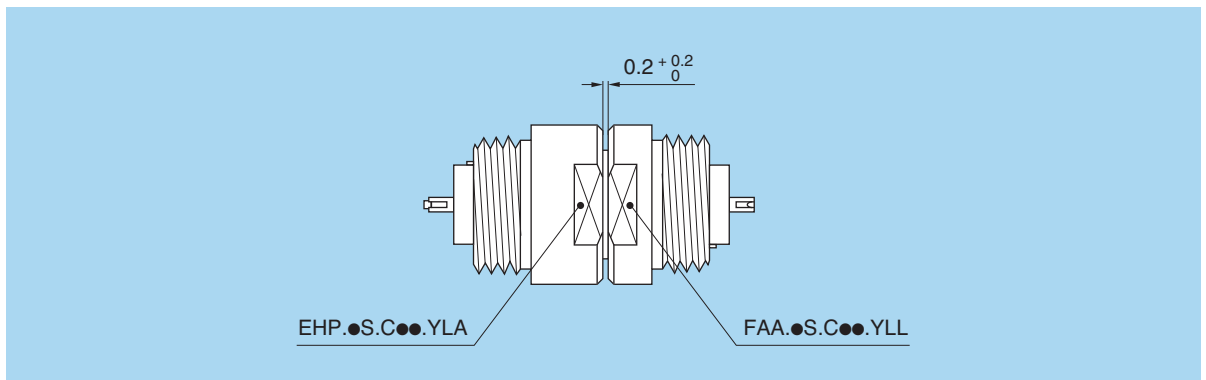
EHP Fixed socket (only compatible with FAA)



Reference		Dimensions (mm)						
Model	Series	A	C	e	D	L	M	S1
EHP	2S	18.0	8.95	M16x1.5	8.4	18.6	7.5	17.0
EHP	3S	22.0	10.95	M20x1.5	9.9	24.8	8.0	19.0
EHP	4S	25.0	13.95	M22x1.5	10.9	27.1	10.0	21.0
EHP	YS	30.0	18.70	M27x1.5	11.9	32.3	13.5	26.0
EHP	5S	35.0	22.90	M32x1.5	11.9	32.3	13.5	30.0

Part number example: EHP.●S.C●.YLA

For all the sizes (2S, 3S, 4S, YS, 5S), please respect the gap between plug and socket as shown below.



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