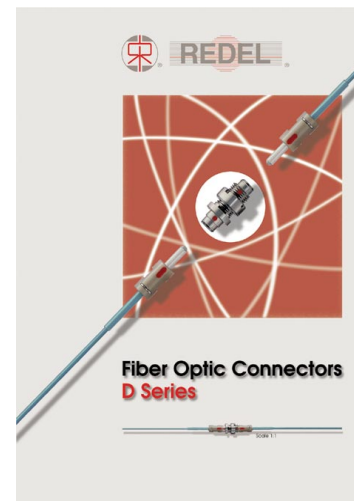
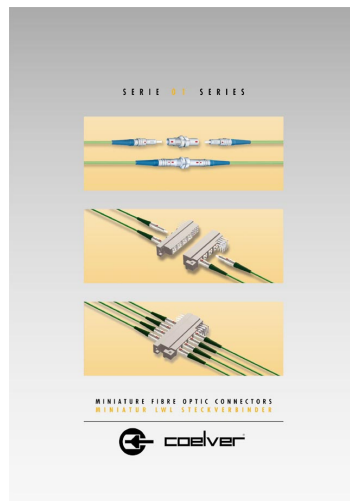
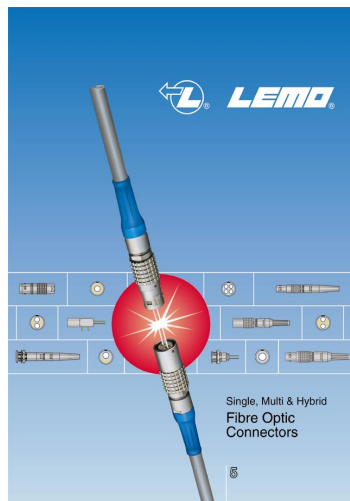


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**NEW
FIBRE OPTIC
PRODUCTS**

F8 FIBRE OPTIC CONTACTS

The F8 contact is an APC contact that can be used in LEMO's multiway optical or mixed connectors. It conforms to the IEC return loss requirements for APC connectors in both mated and unmated conditions and has an average insertion loss of <math><0.3\text{db}</math>. With its highly stable and repeatable performance this contact is ideally suited to analogue or laser applications where a multiway/hybrid connector is needed. Its main features are as follows:

- Ceramic ferrule diameter 1.25 mm
- To use with single mode 9/125 fibres
- Insertion loss 0.5dB max
- Return loss >60 dB mated and >55dB unmated
- Stability over 10 mating cycles better than $\leq 0.18\text{dB}$
- Temperature range use: -40°C to $+85^{\circ}\text{C}$

The F8 contact requires the use of specific insulators and a wide range of configurations are available. Cable assemblies or patchcords using the F8 contacts are currently available via LEMO UK, for information on termination, polishing instructions and polishing fixtures, contact LEMO S.A.

FFS Male F8 Fibre Optic Contact



Part number	Ferrule hole dia. (μm)
FFS.F8.125.LCE30	125
FFS.F8.126.LCE30	126

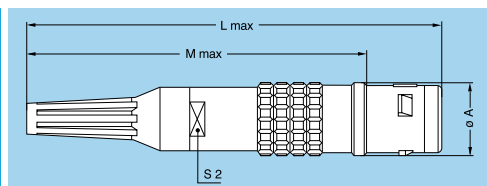
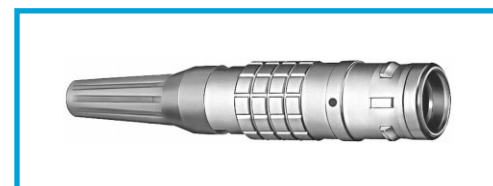
PSS Female F8 Fibre Optic Contact



Part number	Ferrule hole dia. (μm)
PSS.F8.125.LCE30	125
PSS.F8.126.LCE30	126

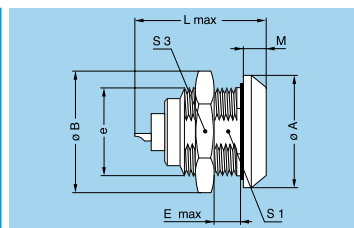
Example of connector

FGG Straight plug, key (G) or keys (A...F, L and R), cable adaptor and nut for fitting a bend relief



Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FGG	2K	16	101	85.0	12
FGG	3K	19	109	89.0	15
FGG	4K	25	131	110.5	19

EGG Fixed socket, nut fixing, key (G) or keys (A...F, L and R)



Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
EGG	2K	25	27.0	M20x1.0	9	41.0	5.0	18.5	24
EGG	3K	31	34.0	M24x1.0	11	42.5	6.0	22.5	30
EGG	4K	37	40.5	M30x1.0	9	41.0	6.5	28.5	36

Note: Consult our fibre optic cat. No 5 for other models and cable ϕ range.

Example of contact configurations

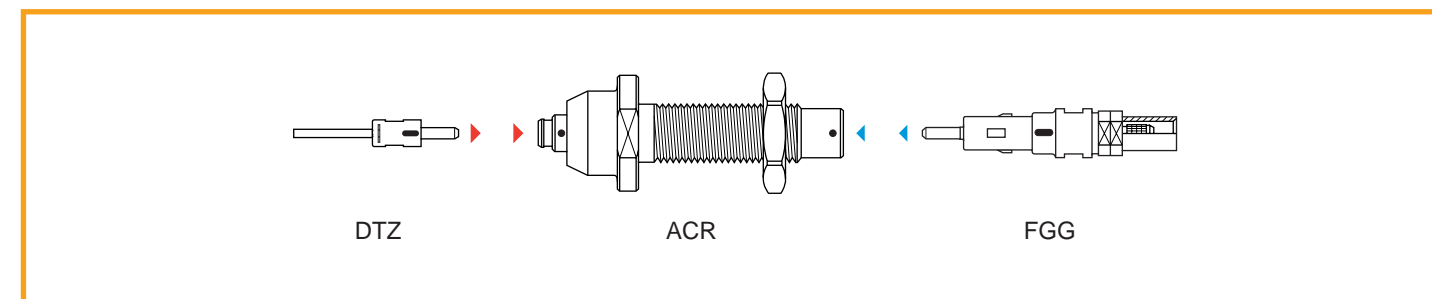
	View from mating side	Reference	No of fibre optic contacts		Electrical contact	
			F8	F2	No	ϕ A (mm)
2K		9AA	1	-	2	0.9
		9AJ	1	-	10	0.7
3K		0AA	2	-	-	-
		0BA	1	1	-	-
		9AE	2	-	6	0.9
		9BE	1	1	6	0.9
4K		0AC	4	-	-	-

VACUUM SEALED FEED-THROUGH CONNECTOR

The COELVER ACR.01 fibre optic adaptor provides a vacuum sealed feed-through that combines the benefit of the COELVER 01 and REDEL D connectors.

The sub-miniature REDEL D is retained on the inside of the chamber under high-vacuum conditions. Because of its very small volume this connector is ideal when outgassing is of prime concern. The more rugged COELVER 01 is on the outside of the equipment.

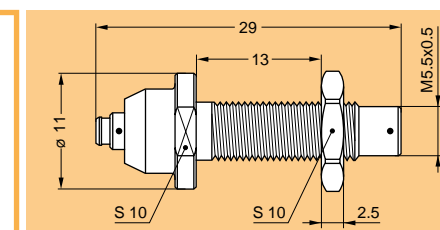
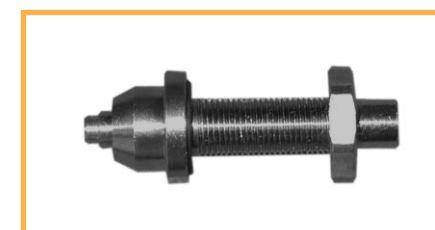
The design ensures that the vacuum seal is maintained even when the 01 plug is disconnected and the alignment sleeve removed for cleaning. This adaptor is designed for use with singlemode or multimode fibres.



Characteristics	Value
Average insertion loss fibre 9/125 μm	0.5 db
Return loss fibre 9/125	> 45 db
Leak rate (He)	$< 10^{-8}$ mbar.l.s $^{-1}$
Operating pressure	5 bars max.
Temperature range	-10°C up to $+60^{\circ}\text{C}$

Parts	Material
Outer shell & hexagonal nut	CuNiZn alloy (ARCAP AP4)
Ferrule holder	CuNiZn alloy (ARCAP AP4)
Ferrule & alignment tube	Ceramic
O-ring	FPM (Viton®)
Fibre	Silica/Silica
Fibre fixing resin	Epoxy

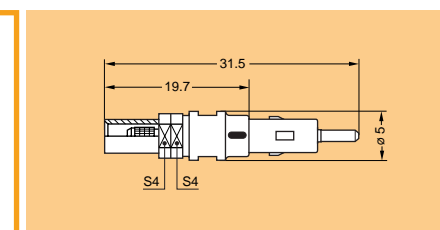
ACR.01 Adapter made of COELVER 01 fixed socket and REDEL D socket, vacuum sealed



Part Number	Fibre type
ACR.01.BA1.ACSVV	9/125 singlemode
ACR.01.DA1.ACSVV	62.5/125 multimode

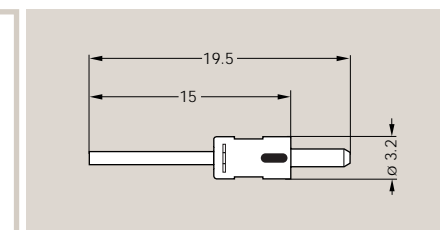
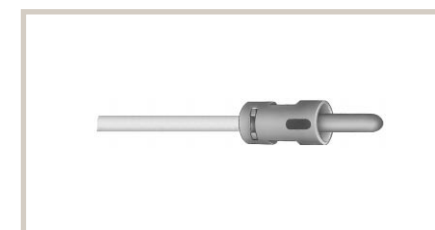
Connectors to use with the application

COELVER 01 Series



Part Number	Fibre type
FGG.01.125.NAEE30	9/125 singlemode
FGG.01.126.NAEE30	62.5/125 multimode

REDEL D Series



Part Number	Fibre type
DTZ.125.GAET06	9/125 singlemode
DTZ.126.GAET06	62.5/125 multimode