

ULC Series Push-pull Brass & Titanium Connectors

SOURIAU



Standard Push-pull Connectors

A large Push-Pull Brass & Titanium connectors range for glovebox applications

Radiation withstanding materials ■ Shell → Brass or Titanium
Insulation → PEEK or Nylatron®
Other non-metallic parts → Viton®/EPDM

Sealing ability ■ IP68

Large range ■ 4 shell sizes
Multipin signal & power, coaxial, triaxial
Large choice of receptacles

Quick connect ■ Push-Pull coupling system

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Россия +7(495)268-04-70

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Казахстан +7(7172)727-132

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Киргизия +996(312)96-26-47

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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Description

- Brass & Titanium version of ULC push-pull connectors
- 4 sizes available (1, 3, 4, 5)

Application

- Gloveboxes and hot-cells for signal and power transmission

Qualification standards

- UL1977 listed

Technical features

Electrical

- **Contacts:**
Solder contacts
Gold and Nickel plated contacts
Shielding continuity option available
- **Standard contacts operating voltage:**
250 to 2500 Vdc
150 to 1500 Vrms with 50Hz

Mechanical

- **Endurance:**
500 mating / unmating

Environmental

- **Temperature range:**
-50 to +200°C (392°F)
- **Sealing ability:**
IP 68 (open face) except for triax
- **Insulator radiation withstanding:**
Nylatron®: 10⁸ Rad
Tefzel: 5x10⁷ Rad
Peek: 10⁹ Rad
Vespe: 4x10⁹ Rad (please consult us)
- **Seals radiation withstanding:**
EPDM: 8x10⁷ Rad
Viton®: 6x10⁶ Rad

Materials & plating	Receptacle and plug components						Contacts
	Shells		Insulator	Seals	Cable clamp	Other non-metallic internal materials	
Material	Brass	Titanium	PEEK, Nylatron®, Tefzel	EPDM/Viton®	Brass/ Titanium	Nylatron®	Refer to details on page 9 to 13
Plating	Nickel	/	/	/	/	/	

Features & benefits

Field proven

A connector range dedicated to the nuclear industry

The ULC range has been installed in gloveboxes and hot cells around the world for decades. With standard and remote manipulated versions, this range addresses the high level of requirements associated with nuclear fuel production, fuel reprocessing and waste management industries, as well as experimental facilities.



Approved quality assurance program

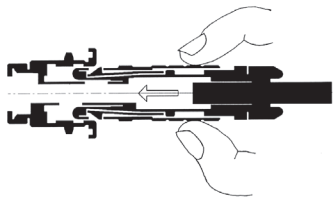
SOURIAU quality assurance program meets international & nuclear standards:

- ISO 9001/EN 9100

Product overview

Push-pull coupling plugs

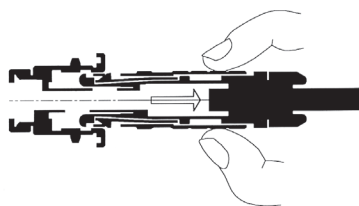
The ULC range is based on a reliable and safe push-pull system.



The latching of the plug into the receptacle is achieved by a simple axial push of the outer plug shell in the receptacle.



Connection can not be broken by pulling the cable or any other parts of the plug than the outer shell.



To unmate the plug from the receptacle, just pull the outer shell axially.

Cable clamp

Locking spring

Strong locking system which is released only by pulling on the locking ring

Locking ring

Mechanical keying

Easy to use

- Even with two pairs of gloves
- Self-locking mechanism

Quick to connect and disconnect

- A simple axial push/pull

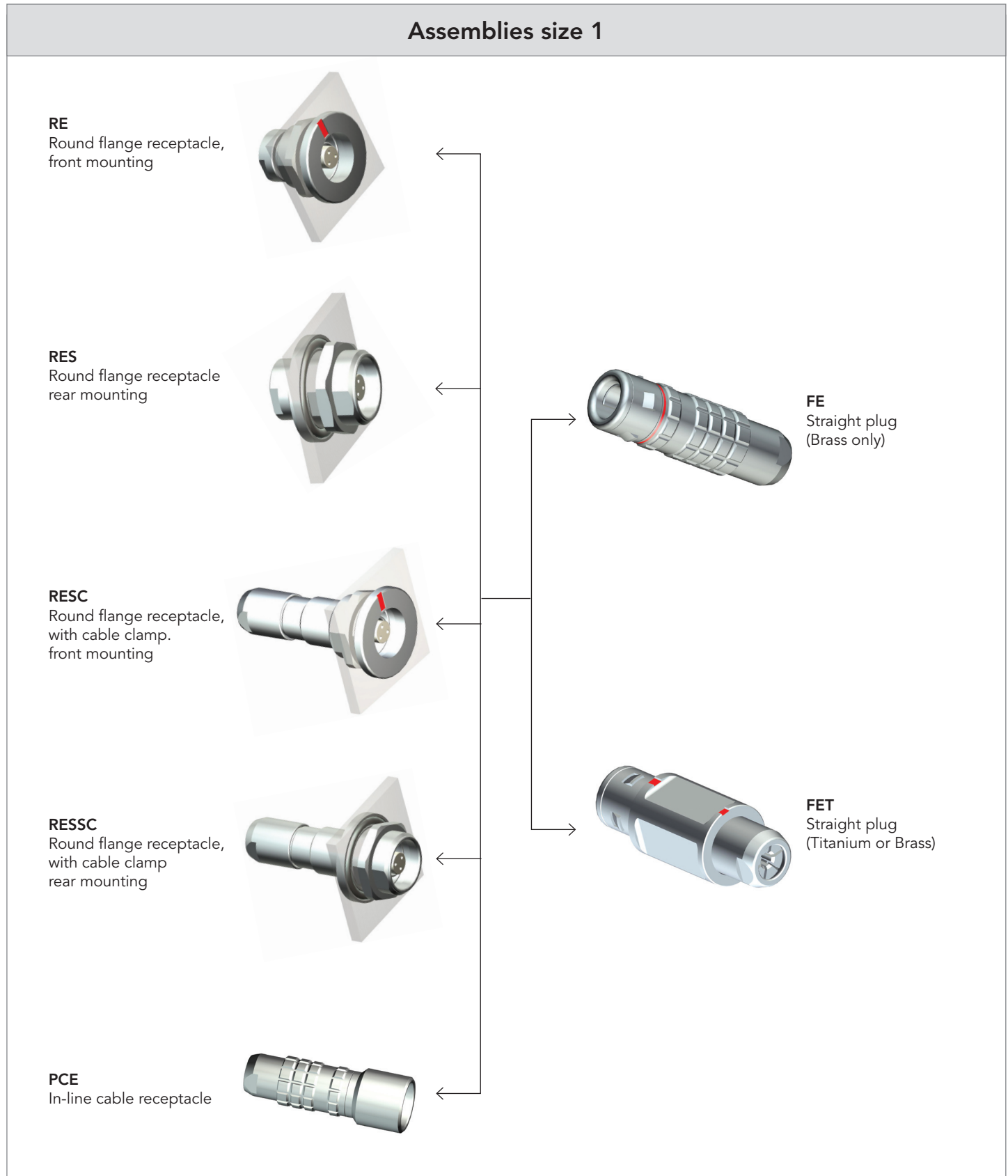
Signal integrity ensured

- Secured against accidental disconnections «by pulling on cable»

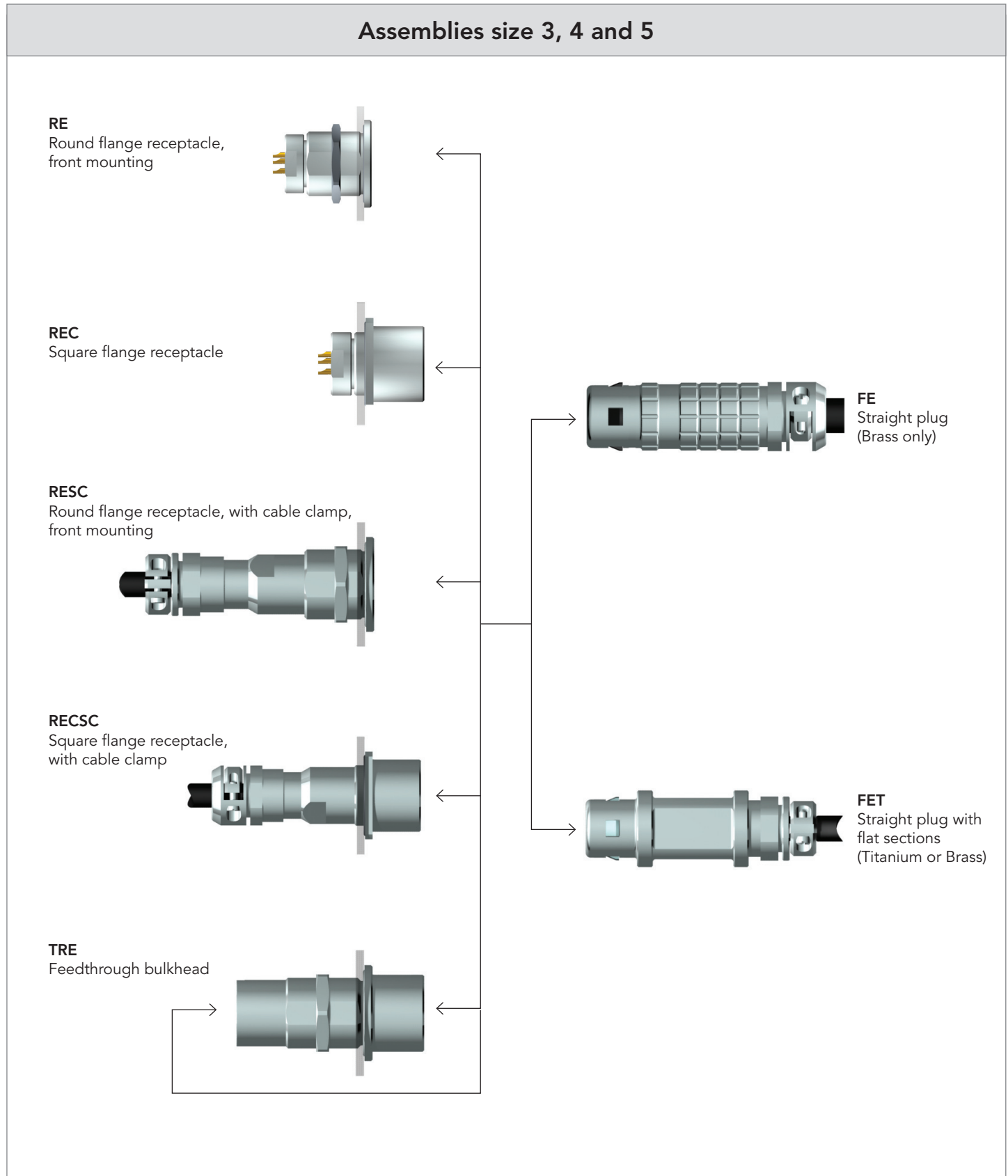
The outer shells are specially machined to ensure an easy catching and handling with gloves while ensuring the glove will not be damaged by sharp edges.

During the connection, contacts are mechanically protected by the connector housing.

Product overview



Product overview



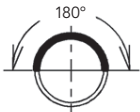
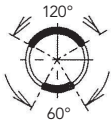
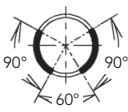
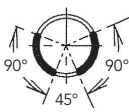
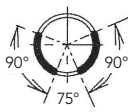
Product overview

Keying

The ULC connectors can be equipped with 5 different keyings:

- One glovebox can accommodate several ULC connectors of the same size and with the same contact layouts without any risk of a wrong mating. Five different keying options are available. Each specific pattern goes with a specific color marking on the plug and on the receptacle. This line marking helps the operator to find the right orientation of the connector when connecting. The keying system uses a rigid sleeve that also protects the contacts during the mating process.

- Layouts available (receptacle view):

Keying code	P1	P2	P3	P4	P5
Plug front view					
Color	Red	Blue	White	Yellow	Green

Note : if more patterns (up to 8) are needed, please contact SOURIAU

Mark on receptacle



Mark on plug

Corresponding 1/2 sleeves

Contacts

Plug & receptacle:

- The ULC range accommodates solder contacts from Ø0.7 to Ø7.
The different layouts are described on pages 9 to 12.
The electrical characteristics are detailed on page 13.

Ordering information

Basic series	FE	F	5	M4		ULCL	S	105	P1
Shells FE: Straight plug (Brass only) FET: Remote manipulated straight plug RE: Round receptacle, front mounting RESC: Round receptacle with cable clamp, front mounting REC: Square receptacle (sizes 3,4,5) RECSC: Square receptacle with cable clamp (sizes 3,4,5) RES: Round receptacle, rear mounting (size1) RESSC: Round receptacle with cable clamp, rear mounting (size1) PCE: In line receptacle TRE: Feedthrough (sizes 3,4, 5)									
Contacts* M: Pin contacts F: Socket contacts									
Shell sizes 1 3 4 5									
Contact layouts Mxxx: Multipin (Refer to table p.10, 11 and 12) Cxx: Coaxial + impedance (50Ω or 75Ω) TCXxx: Triaxial + impedance (50 Ω or 75 Ω) Kxxx: Thermocouple (Refer to table p.13)									
Shell to shell conductivity** : T: Contact n°1 connected to shell ground (multipin only, except feedthrough)									
Series: ULCL: Brass shell ULCT: Titanium shell									
Insulator material S: Nylatron® TZ: Tefzel (coaxial only) N: PEEK									
Cable outer diameter: XXX: Mention cable outer diameter in 1/10° of mm									
Keying P1 to P5									

*For the feedthrough (TRE): do not mention anything

TRE are delivered: Pin/socket in multipin version

Socket/socket in coaxial and triaxial versions

**No shell to shell conductivity wanted: do not mention anything

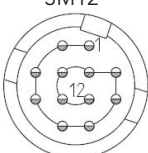
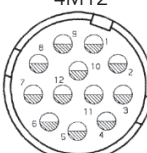
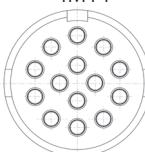
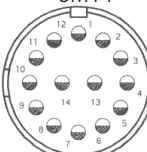
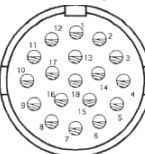
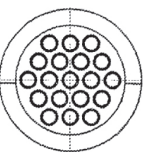
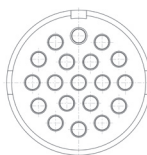
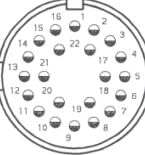
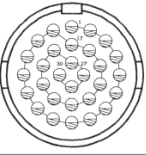
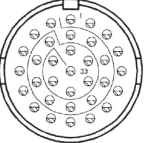
Contact layouts

		Multipin power & signal layouts							
		Contacts size							
		Ø0.7	Ø0.9	#20	Ø1.3	#16	Ø2	#12	Other
Number of contacts	1						1M1* 		4U35 (35mm²)* 5U50 (50mm²)*
	2				1M2* 	3M2* 	4M2(#16) 		
	3		1M3* 			3M3 			
	4		1M4* 			3M4 		4M4/5M4 	5M4D5
	5			3M5 					
	7			3M7 		4M7 		5M7 	5M7D8**
	8	1M8* 		3M8 		4M8 	5 M 14 Connector shell size Multipin Number of contacts		

*Nylatron version isn't suitable with n° 1 contact connected to the shell ground

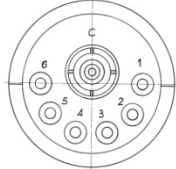
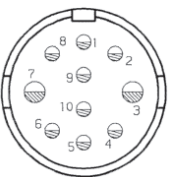
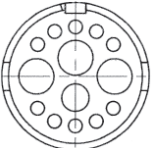
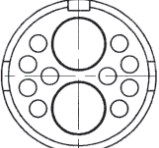
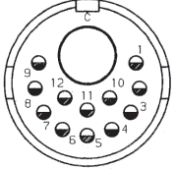
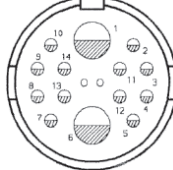
** Only available with crimp removable contacts

Contact layouts

		Multipin power & signal layouts			
		Contacts size			
		Ø0.9	#20	Ø1.3	#16
Number of contacts	12	3M12* 			4M12* 
	14		4M14 		5M14 
	18		4M18 		
	19	3M19 			5M19 
	22		5M22 		
	27	5 M 14 Connector shell size Multipin Number of contacts			5M27 
30	4M30 				
	33			5M33 	

*Nylatron version isn't suitable with n° 1 contact conneted to the shell ground

Contact layouts

		Hybrid layouts					
		Contacts size					
		#20	#20	Ø1.3	Ø1.3	#16	#12
Number of contacts	6					4M6+1C50/1C75 	
	7						5M7+2(#16) 
	8		M8+2(#16) 		5 M 14 Connector shell size Multipin Number of contacts		
	9						
	10	4M10+3C50+1HV 	4M10+2C50* 				
	12			4M12+1C50/1C75* 	4M12+2(Ø4)* 		

For other arrangements, please consult us.

* Version not suitable with n°1 contact connected to shell ground.

Contact layouts - Solder contacts

Coaxial	
 1C50 or 1C75 Size 1 - Coaxial contact + impedance for coaxial cable Kx23 or Kx15 / Max current rating = 3A for Kx 23; 4A for Kx15 Contact resistance $\leq 5\text{m}\Omega$	 3C50 or 3C75 Size 3 - Coaxial contact + impedance for coaxial Contact us for cable diameter / Max current rating = 8A Contact resistance $\leq 4\text{m}\Omega$
Triaxial, please consult us	

Chromel / Alumel thermocouple	
3K4 2 thermocouple contacts type K (1 Chromel and 1 Alumel) for wire #16 (Solder fixed) + 2 standard copper contacts #16 (Solder fixed) Shell Size 3	
For other arrangements/materials, please consult us.	

Electrical Characteristics				
Contact size	Contact diameter (mm)	Solder bucket diameter (mm)	Current rating (per contact)	
			UL recommendation	SOURIAU recommendation
HV	1.02	1.3	NA	7A
Ø7	7	9		115A
Ø5	5	5.1		40A
Ø4	4	4		33A
#12	2.39	2.6	13A	26A
Ø2	2	1.8	NA	18A
#16	1.59	2	4.5A	13A
Ø1.3	1.3	1	NA	10A
#20	1.02	1.3		7A
Ø0.9	0.9	0.8		5A
Ø0.7	0.7	0.7		4A

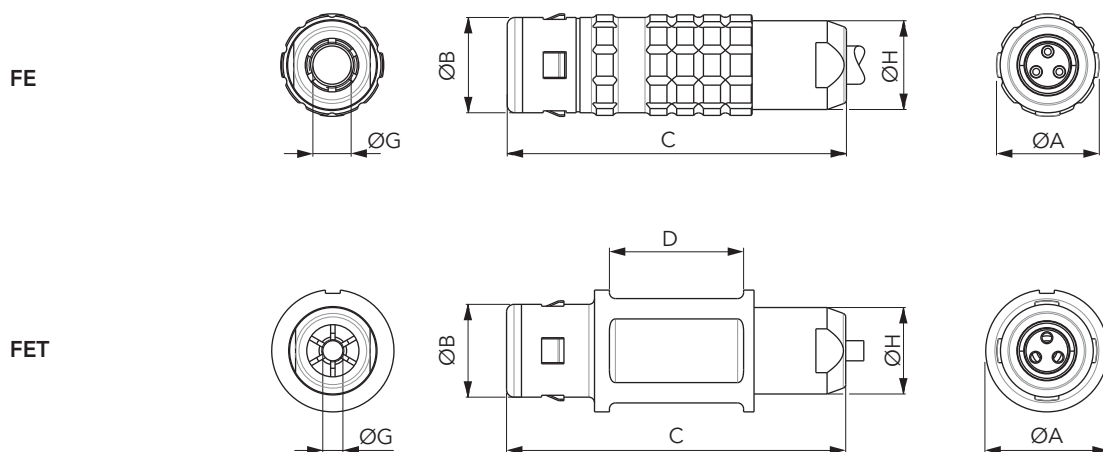
Contact layouts

Electrical characteristics			
Contact size	Layout	Operating Voltage (Vdc) UL	Operating Voltage (Vdc) SOURIAU
		Recommendation	
#12	4M4	600V	1200V
	5M4		2500V
	5M7		1600V
	5M7+2	NA	1500V
Ø2	1M1		1200V
#16	3M2	600V	700V
	3M3		
	3M4		
	4M2		1200V
	4M7		
	4M8		1100V
	4M8+2		
	4M6+1C50/1C75		1000V
	4M12		700V
	5M14		1000V
	5M19		800V
	5M22		900V
	5M27		700V
	5M4D5		1500V
	5M12+7+4C50	NA	500V/250V (Coax)
Ø1.3	1M2	NA	700V
	4M30		400V
	4M12+1C50/1C75		500V
	4M12+2		
	4M11+1HV		500V / 7000V (HV)
	5M33		600V
#20	3M5	600V	700V
	3M7		
	3M8		600V
	4M14		900V
	4M18		500V
	4M10+2C50	NA	800V
	4M10+3C50+1HV		
Ø0.9	1M3	NA	900V
	1M4		600V
	3M12		400V
	3M19		250V
Ø0.7	1M8	NA	

Product details

Plug - Size 1 dimensions

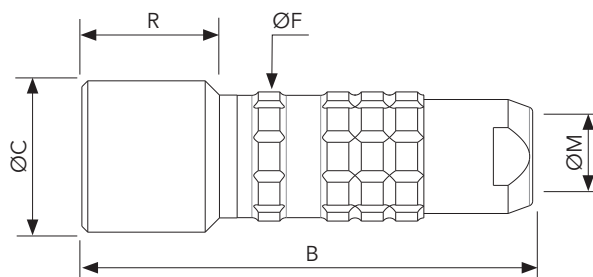
Straight plugs



Shell	Size	ØA max (mm/inch)	ØB min (mm/inch)	C max (mm/inch)	D (mm/inch)	ØG min (mm/inch)	ØG max (mm/inch)	ØH max (mm/inch)
FE	1	13.2/0.531	11.6/0.490	45/1.772	NA	2.2/0.866	7.2/0.283	12/0.472
FET		16/0.629	11.6/0.490	45/1.772	18/0.709	2.2/0.866	7.2/0.283	11.6/0.456

In-line receptacle - Size 1 dimensions

PCE



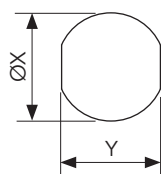
Shell	Size	B (mm/inch)	ØC (mm/inch)	ØF (mm/inch)	ØM max (mm/inch)	R (mm/inch)
PCE	1	59/2.323	15/0.590	13.2/0.519	7/0.275	14/0.551

Product details

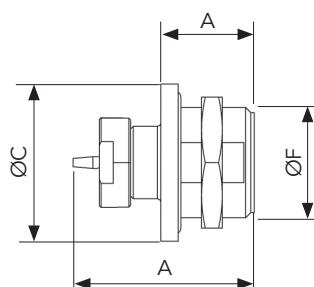
Receptacles - Size 1 dimensions

Panel mounted

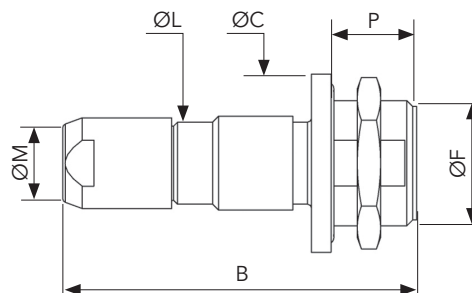
Panel cut-out



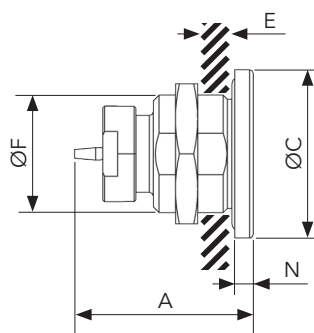
RES



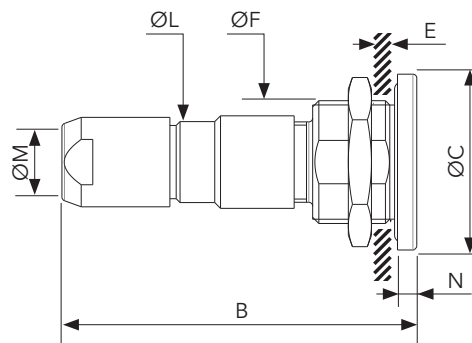
RESSC



RE



RESC

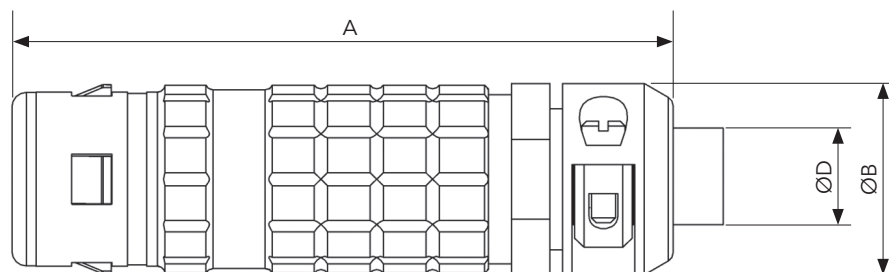


Shell	Size	A max (mm/inch)	B (mm/inch)	ØC (mm/inch)	ØD (mm/inch)	E max (mm/inch)	ØF (mm/inch)	ØL (mm/inch)	ØM max (mm/inch)	P (mm/inch)
RE RES RESC RESSC	1	23/0.905	42/1.654	23/0.905	3/0.118	7/0.275	M16x1	11.6/0.457	7/0.275	11/0.433

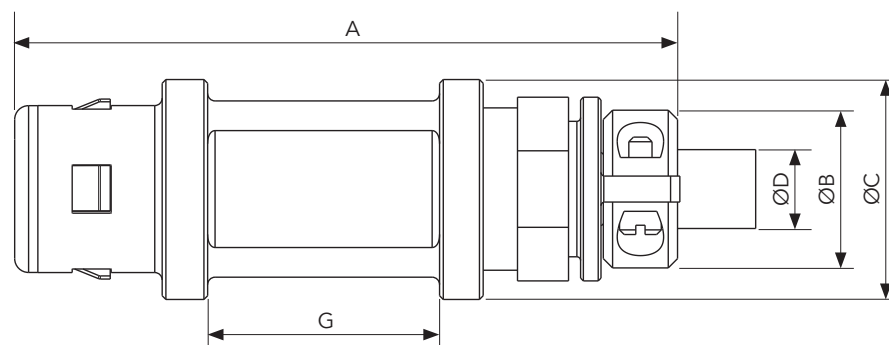
Product details

Plug - Size 3, 4 & 5 dimensions

Straight plugs



Shell	Size	A max (mm/inch)	ØB max (mm/inch)	ØD min (mm/inch)	ØD max (mm/inch)
FE	3	71/2.795	20/0.79	3.5/0.137	11/0.433
	4	88/3.46	29/1.141	8.2/0.322	18/0.708
	5	105/4.133	37/1.456	10/0.393	24/0.944

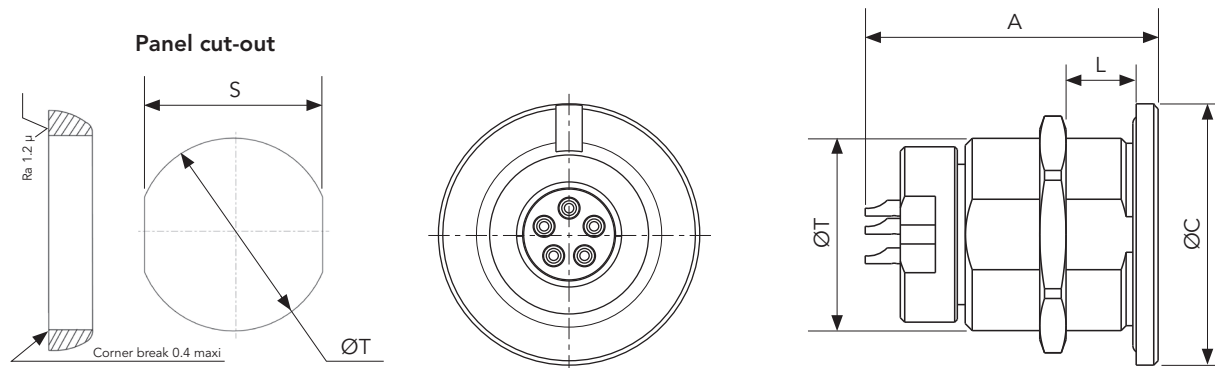


Shell	Size	A max (mm/inch)	ØB max (mm/inch)	ØC max (mm/inch)	ØD min (mm/inch)	ØD max (mm/inch)	G max (mm/inch)
FET	3	72/2.834	20/0.79	24/0.944	3.5/0.137	11/0.433	25/0.964
	4	88/3.503	28/1.102	32/1.259	8.2/0.322	18/0.708	25/0.964
	5	108/4.251	36/1.417	42/1.653	10/0.393	24/0.944	25/0.964

Product details

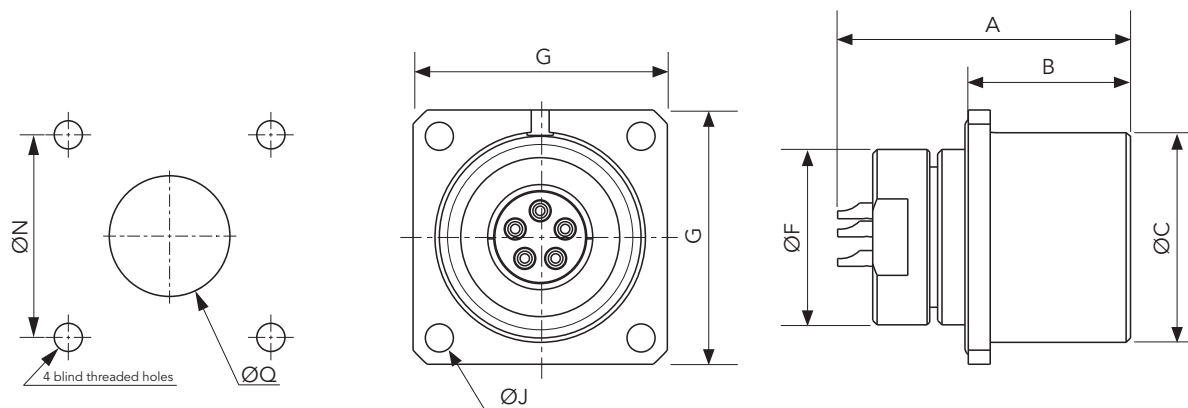
Receptacles – Size 3, 4 & 5 dimensions

Round receptacles



Shell	Size	A max (mm/inch)	$\varnothing C$ (mm/inch)	L (mm/inch)	S (mm/inch)	$\varnothing T$ +0.2 -0 (mm/inch)
RE	3	36/1.417	30/1.181	16/0.630	20.1/0.791	22.1/0.870
	4	36.5/1.437	40/1.575	15/0.591	29.7/1.169	31.1/1.224
	5	42/1.654	52/2.047	20/0.787	39.7/1.563	41.1/1.618

Square receptacles

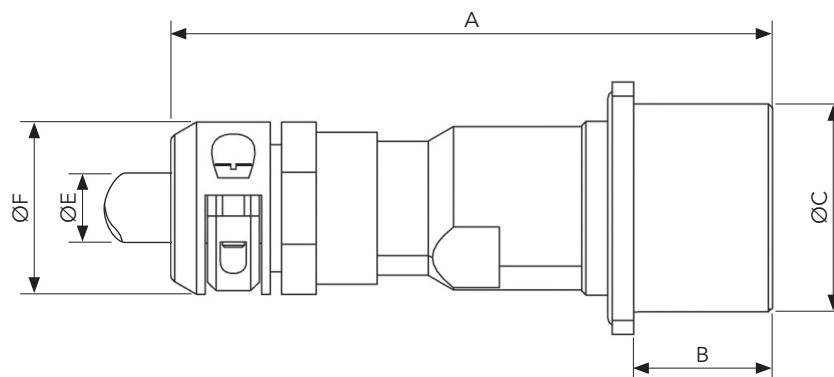


Shell	Size	A max (mm/inch)	B min (mm/inch)	$\varnothing C$ (mm/inch)	$\varnothing F$ (mm/inch)	G (mm/inch)	$\varnothing J$ (mm/inch)	N (mm/inch)	$\varnothing Q$ min (mm/inch)
REC	3	36/1.417	18.5/0.728	24/0.945	20/0.787	29/1.142	3.2/0.126	23/0.906	20.5/0.807
	4	36.5/1.437	19.5/0.768	32/1.260	28.9/1.137	36.9/1.453	3.2/0.126	29.4/1.157	29.5/1.161
	5	42/1.654	24.5/0.965	41/1.614	35/1.378	43.3/1.705	4.2/0.165	34.9/1.374	35.5/1.398

Product details

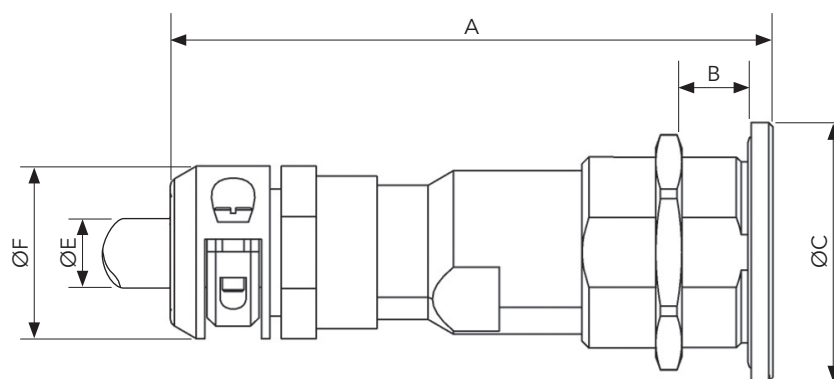
Receptacles – Size 3, 4 & 5 dimensions

Square receptacles



Shell	Size	A max (mm/inch)	B (mm/inch)	ØC max (mm/inch)	ØE min (mm/inch)	ØE max (mm/inch)	ØF max (mm/inch)
RECSC	3	72 / 2.835	18.5 / 0.728	24 / 0.945	3.5 / 0.138	11 / 0.433	20 / 0.787
	4	92 / 3.3622	19.5 / 0.768	32 / 1.260	8.2 / 0.323	18 / 0.709	27.8 / 1.094
	5	115 / 4.528	24.5 / 0.965	41 / 1.614	10 / 0.394	24 / 0.945	35.8 / 1.409

Round receptacles

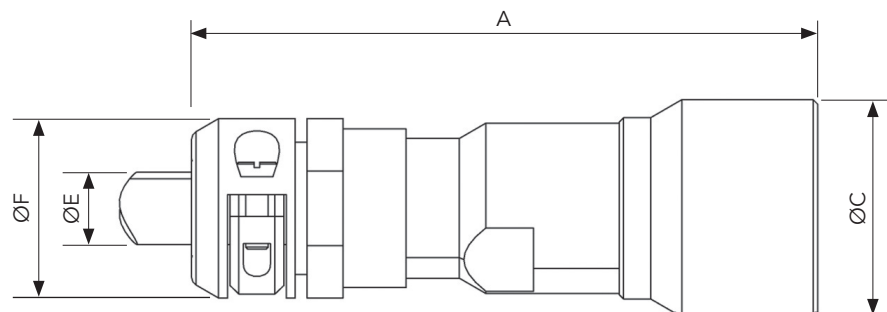


Shell	Size	A max (mm/inch)	B max (mm/inch)	ØC max (mm/inch)	ØE min (mm/inch)	ØE max (mm/inch)	ØF max (mm/inch)
RESC	3	72 / 2.835	16/0.630	29.8 / 1.173	3.5 / 0.138	11 / 0.433	20 / 0.787
	4	92 / 3.622	15/0.591	40 / 1.575	8.2 / 0.323	18 / 0.709	27.8 / 1.094
	5	115 / 4.528	20/0.787	51.8 / 2.039	10 / 0.394	24 / 0.945	35.8 / 1.409

Product details

Receptacles – Size 3, 4 & 5 dimensions

In-line receptacle



Shell	Size	A max (mm/inch)	ØC max (mm/inch)	ØE min (mm/inch)	ØE max (mm/inch)	ØF max (mm/inch)
PCE	3	75 / 2.95	24 / 0.945	3.5 / 0.138	11 / 0.433	20 / 0.787
	4	95 / 3.740	32 / 1.260	8.2 / 0.323	18 / 0.709	27.8 / 1.094
	5	114 / 4.488	41 / 1.614	10 / 0.394	24 / 0.945	35.8 / 1.409

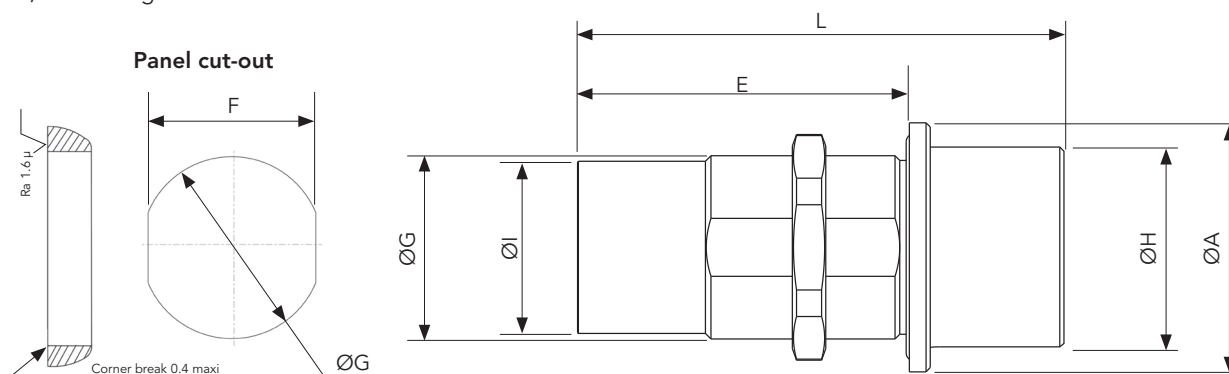
Feedthrough – Size 3, 4 & 5 dimensions

Feedthrough

Possibility of pre-guiding fork, Please consult us.

For multipin, feedthrough are fitted with socket contacts on a side and pin contact on the other one.

For coaxial, feedthrough are fitted with socket contacts on both sides.

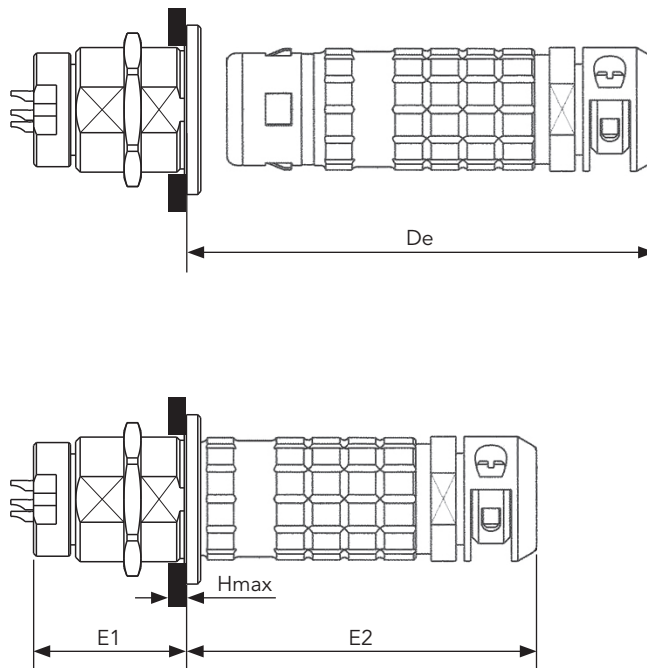


Shell	Size	ØA (mm/inch)	E Max (mm/inch)	F +0,2 (mm/inch)	ØG +0,2 (mm/inch)	ØH (mm/inch)	ØI (mm/inch)	L Max (mm/inch)
TRE	3	30 / 1.181	40 / 1.574	20.7 / 0.814	22.1 / 0.87	24 / 0.945	21 / 0.827	60 / 2.362
	4	39 / 1.535	40 / 1.574	29.7 / 1.169	31.1 / 1.224	32 / 1.26	30 / 1.181	60 / 2.362
	5	52 / 2.047	40 / 1.574	39.7 / 1.563	41.1 / 1.618	41 / 1.614	40 / 1.575	70 / 2.756

Product details

Assembly – Dimensions

Receptacles



Shell	Size 1				Size 3				Size 4				Size 5			
Receptacle	E1 (mm)	E2 (mm)	Hmax (mm)	De (mm)	E1 (mm)	E2 (mm)	Hmax (mm)	De (mm)	E1 (mm)	E2 (mm)	Hmax (mm)	De (mm)	E1 (mm)	E2 (mm)	Hmax (mm)	De (mm)
RE	17.5	36	7	48	26	62	16	75	29	73	16	90	31	91	20	109
REC					10	74		91	20	90		107	18	112		135
RECSC					53	74		91	67	90		107	84	112		135
RES	9	44	7	56												
RESC	17.5	36	7	48	69	62	16	75	84	73	16	90	105	91	20	109
RESSC	9	44	7	56												
PCE*	75			88	125			143	154			173	191			214

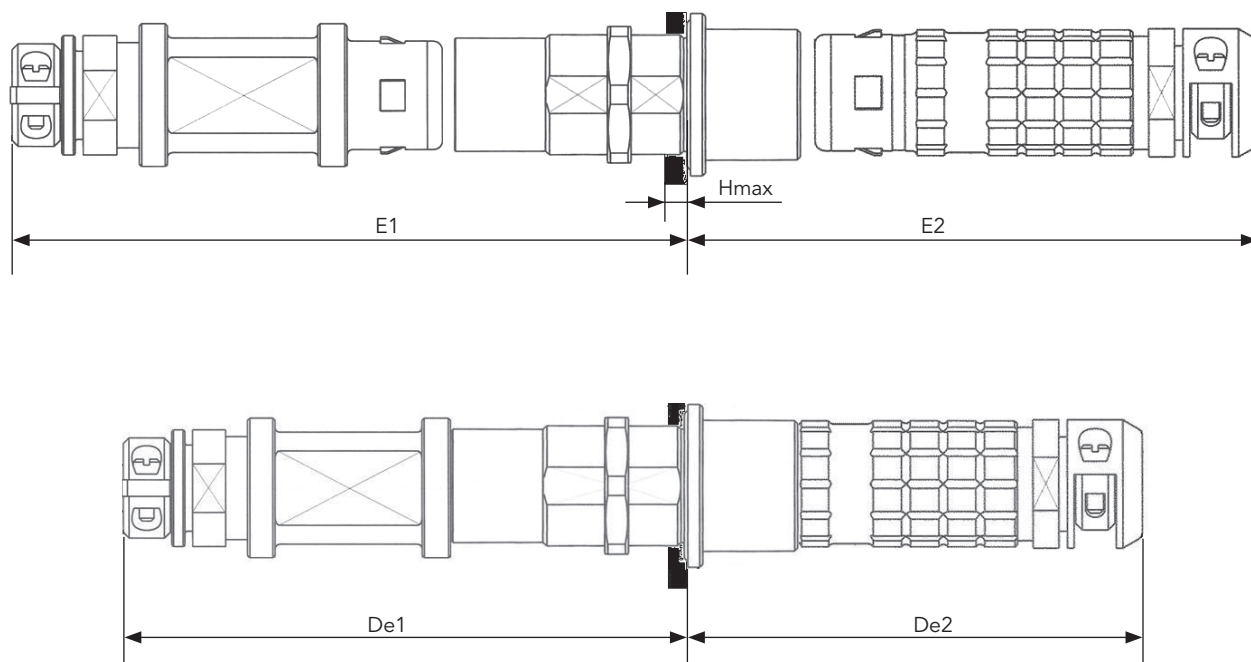
*These dimensions mentioned for cable receptacle are: mated length / unmated length

These dimension concern both plugs FE & FET

Product details

Assembly – Dimensions

Feedthrough



Shell	Size 3					Size 4					Size 5				
Feedthrough	E1 (mm)	E2 (mm)	De1 (mm)	De2 (mm)	Hmax. (mm)	E1 (mm)	E2 (mm)	De1 (mm)	De2 (mm)	Hmax. (mm)	E1 (mm)	E2 (mm)	De1 (mm)	De2 (mm)	Hmax. (mm)
TRE	96	74	113	91	21	109	88	128	107	21	129	109	152	135	21

These dimension concern both plugs FE & FET

Accessories

EPDM protective cap

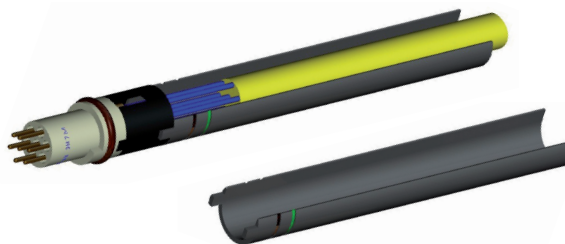
EPDM cap for size 1, 3, 4 & 5 connectors



Simple EPDM cap	ULC	L	B	**	-	*	C	-
				FE = Plug RE = Receptacle		Size		
EPDM cap with FET body	ULC	*	BE	*	T	*	*	802
		L = Brass T = Titanium		F = Plug R = Receptacle		Size	C = Eyelet fixing T = Collar fixing"	

Plug assembly tool (for connector)

Shell size	Reference
3	OUTULCXME3
4	OUTULCXME4
5	OUTULCXME5



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