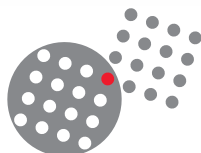


# ULC Series

Push-Pull Connectors for Nuclear Industry



**SOURIAU**  
Connection Technology



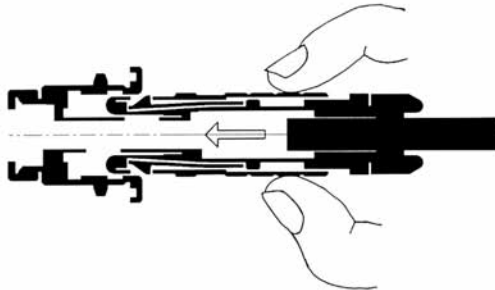
## Summary

	Page
• <b>Push-pull system</b> .....	4
• <b>General description</b> .....	5
• <b>How to order</b> .....	6
• <b>Product range</b> .....	7-8
• <b>Contact layouts :</b>	
• size I .....	9
• size III.....	9
• size IV.....	10
• size V .....	11
• <b>Overall dimensions of mated sets</b> .....	12
• <b>Overall dimensions :</b>	
• of FE, PCE, FET connectors and of BRE and BFE caps • size I.....	13
• of FE, PCE, FET, RME connectors and of BRE and BFE caps • size III, IV et V.....	14
• of RE, RESC, RES, RESSC connectors size I .....	15
• of RE, RESC, REC, RECSC connectors size III, IV and V.....	16
• of remotely manipulated sets with pre-guiding :	
• size III and IV .....	17
• size V .....	18
• of triaxial connectors .....	19
• <b>Nuclear specific products</b> .....	20
• <b>Other products</b> .....	21
• <b>Wiring instructions</b> .....	22-23

# ULC Series



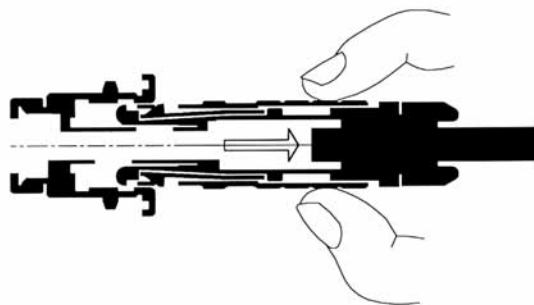
## Push-pull system



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

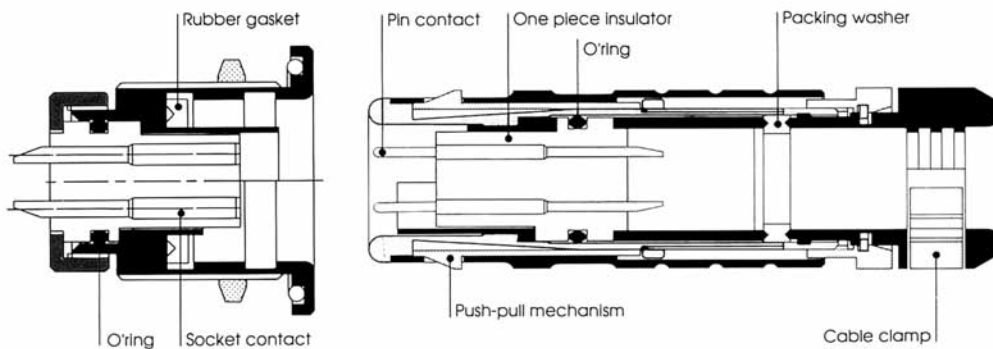


Connection cannot be broken by pulling the cable or any other parts of the plug than the outer shell.



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

## Receptacle and plug sections





## General description

### Shells

- Easy to use : "PUSH-PULL" latching
- Watertight to 2 bars, mated connectors
- Brass shells with Nickel + Chrome plating, or stainless steel for special applications : nuclear, corrosive fields etc... (Stainless steel shells for remote manipulation)
- Alternative insulators to suit conditions (temperature, radiation, etc...)
- Gold and nickel plated contact, to solder
- Mechanical keying
- Pre-guiding available on remote manipulation versions
- Four shell sizes (I, III, IV, V) for multipin connectors
- O'ring :
  - . standard; nitrile for brass shell, epdm for stainless steel shell
  - . on request; silicon, neoprene, viton
- Shell to shell conductivity available on all multipin connectors.

CONSULT US FOR ANY SPECIFIC APPLICATIONS.

### Insulators

Series	Insulator material	Ref.	Temperature range °C	Dielectric withstanding voltage kV/mm	Radiation withstanding Rad	Dielectric constant	M	C	TCX
Standard	NYLATRON GS **	S	-20 +90	12	1.10 <sup>8</sup>	3,4	X	X	X
	TEFLON **	TF	-50 +170	60	1.10 <sup>4</sup>	2,6	X	X	X
	KELANEX *	K	-50 +170	18	1.10 <sup>6</sup>	3,8	X		
Special	TEFZEL	TZ	-50 +170	60	5.10 <sup>7</sup>	2,6	X	X	X
	PEEK **	N	-50 +250	35	1.10 <sup>9</sup>	2,6	X		
	POLYETHYLENE	P	-40 +100	33	1.10 <sup>8</sup>	3,2	X		
	POLYPROPYLENE	PP	-10 +100	60	5.10 <sup>4</sup>	2,5	X		
	VESPEL	V	-60 +260	22	4.10 <sup>9</sup>	3,6	X		

M : Multipin    C : Coaxial    TCX : Triaxial.

\* Size I only

\*\* Recommended materials

Outer diameter of cable (mm)	Shell sizes	I	III	IV	V
	min.		2,2	3,5	8,2
max.		7,2	11	18	24
Force (N)	mating	30 ± 5	30 ± 5	50 ± 5	100 ± 10
	unmating	30 ± 5	30 ± 5	50 ± 5	100 ± 10

# ULC Series



## How to order

### Reference example :

Remote manipulated straight plug, socket contacts, size III, 4 contacts, brass ULC series standard insulator, cable outer diameter = 10,6 mm, P1 Keying.

Shells : (see pages 7 and 8)	FET	F	III	M4	ULCL	S	106	P1
<b>FE</b> : Straight plug								
<b>FET</b> : Remote manipulated straight plug								
<b>RE</b> : Round receptacle, front mounting								
<b>REC</b> : Square receptacle								
<b>RECSC</b> : Square receptacle with cable clamp								
<b>RES</b> : Round salient receptacle, rear mounting								
<b>RESC</b> : Round receptacle with cable clamp, front mounting								
<b>RESSC</b> : Round receptacle with cable clamp, rear mounting								
<b>PCE</b> : Cable receptacle								
<b>TRE</b> : Feed through bulkhead								
<b>RME</b> : Double receptacle								
<b>FETFP</b> : Remote manipulated straight plug with pre-guiding spurs								
<b>REFP</b> : Round receptacle with pre-guiding fork								
<b>RECFP</b> : Square receptacle with pre-guiding fork								
<b>Contacts * :</b>								
<b>M</b> : Pin contacts								
<b>F</b> : Socket contacts								
<b>Shell sizes :</b>								
<b>I</b>	<b>III</b>	<b>IV</b>	<b>V</b>					
<b>Contact layouts : (see pages 9, 10 and 11)</b>								
<b>Mxxx</b> : Multipin + contact layout reference								
<b>Cxx</b> : Coaxial + impedance (50Ω or 75Ω)								
<b>TCXxx</b> : Triaxial + impedance (50Ω or 75Ω)								
<b>Shell to shell conductivity ** :</b>								
<b>T</b> : Contact n°1 connected to shell ground (multipins only, except feed through)								
<b>Series :</b>								
<b>ULCL</b> : ULC series, brass shell								
<b>ULCT</b> : ULC series, titanium shell								
<b>Insulator material : (see table page 5)</b>								
<b>S</b> : Nylatron G.S.								
<b>TF</b> : Teflon								
<b>K</b> : Kelanex								
<b>TZ</b> : Tefzel								
<b>N</b> : PEEK								
<b>P</b> : Polyethylene								
<b>PP</b> : Polypropylene								
<b>V</b> : Vespel (consult us)								
<b>Cable outer diameter :</b>								
<b>xxx</b> : Mention cable outer diameter in 1/10 <sup>e</sup> of mm								
<b>A, B or C</b> : For 75Ω triaxial, state the letter in accordance with the cable used (see page 19).								
<b>Keying : P1, P2, P3, P4, P5 (see table page 21)</b>								

\* For the feed through bulkhead (TRE) and double receptacle (RME) : DO NOT MENTION ANYTHING  
TRE are delivered : Pin/socket in multipin versions  
Socket/socket in coaxial and triaxial versions

RME are delivered : Socket/socket  
\*\* No shell to shell conductivity wanted : DO NOT WRITE ANYTHING.

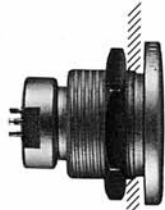
# ULC Series



## ULC shells • size I

### Without pre-guiding Multipin, coaxial connectors

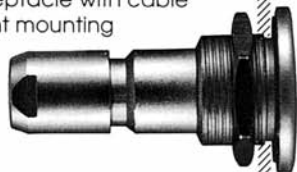
**RE**  
Round flange  
receptacle, front  
mounting



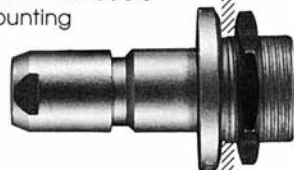
**RES**  
Round flange  
receptacle, rear  
mounting



**RESC**  
Round receptacle with cable  
clamp, front mounting



**RESSC**  
Round receptacle with cable  
clamp, rear mounting



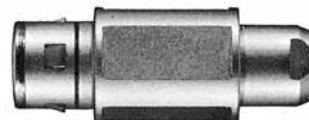
**PCE**  
Cable receptacle



**FE**  
Straight plug  
(brass only)



**FET**  
Remote manipulated  
straight plug



# ULC Series



## ULC shells • size III, IV and V

Without pre-guiding  
Multipin, coaxial and triaxial connectors

**RE**  
Round flange  
receptacle,  
front mounting



**REC**  
Square flange  
receptacle



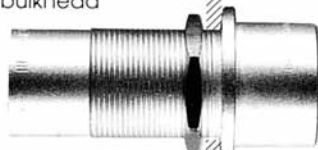
**RESC**  
Round receptacle with cable  
clamp, front mounting



**RECSC**  
Square flange receptacle  
with cable clamp



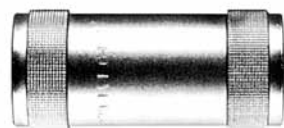
**TRE**  
Feed through bulkhead



**PCE**  
Cable receptacle



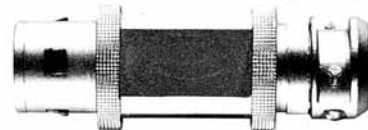
**RME**  
Double  
receptacle  
(only for  
coaxial  
and triaxial  
brass  
connectors)



**FE**  
Straight plug  
(brass only)



**FET**  
Remote manipulated  
straight plug



# ULC Series



## Contact layouts

Shell sizes I and III (operating voltage Vdc and description)

		Insulator view from pin side					
ULC shells size 1	<b>C50</b> 1 Coax. 50Ω Kx 23		<b>C75</b> 1 Coax. 75Ω		<b>M1</b> 1 contact Ø2 1200V		
	<b>M2</b> 2 contacts Ø1,3 700V		<b>M3</b> 3 contacts Ø0,9 900V		<b>M4</b> 4 contacts Ø0,9 600V		
	<b>M8</b> 8 contacts Ø0,7 250V						
ULC shells size 3	<b>M2</b> 2 contacts Gage 16 700V		<b>M3</b> 3 contacts Gage 16 700V		<b>M4</b> 4 contacts Gage 16 700V		
	<b>M5</b> 5 contacts Gage 20 700V		<b>M7</b> 7 contacts Gage 20 700V		<b>M8</b> 8 contacts Gage 20 600V		
	<b>M12</b> 12 contacts Ø0,9 400V		<b>M19</b> 19 contacts Ø0,9 250V		<b>C50</b> 1 Coax. 50Ω Kx 23 1500V		
	<b>C75</b> 1 Coax. 75Ω 1500V		<b>TCX50</b> 1 Triax. 50Ω 1000V		<b>TCX75</b> 1 Triax. 75Ω 1000V		

## Contact table

Symbol	Description	Ø (mm)	Ø solder bucket (mm)	Max current rating (A)	Contact resistance (mΩ)
⊕	Contact Ø0,7	0,7	0,7	4	≤ 8
⊖	Contact Ø0,9	0,9	0,8	5	≤ 5
○	Contact Cal. 20	1,02	1,3	7	≤ 4
⊗	Contact Ø1,3	1,3	1	10	≤ 4
⊕	Contact Cal. 16	1,59	2	13	≤ 3
⊕	Contact Ø2	2	1,8	18	≤ 3
⊖	Contact Cal. 12	2,39	2,6	26	≤ 3
⊖	Contact Ø4	4	4	33	≤ 3
⊖	Contact Ø5	5	5,1	40	≤ 3
⊗	Contact Ø7	7	9	115	≤ 0,6
⊙	Contact HV		1,3	7	≤ 4
⊙	Coax C 50 Kx23		for cable Kx23	3	≤ 5
⊙	Coax C 50 Kx15		for cable Kx15	4	≤ 5
⊙	Coax C 75		1,4	8	≤ 4
⊙	Triax Tcx 50		1,4	6	≤ 3
⊙	Triax Tcx 75		1	5	≤ 4



# ULC Series



## Contact layouts

### Shell size IV (operating voltage Vdc and description)

		Insulator view from pin side					
		M2		M4		M7	
ULC shells size 4	M2 2 contacts Gage 16 1200V		M4 4 contacts Gage 12 1200V		M7 7 contacts Gage 16 1200V		
	M8 8 contacts Gage 20 1100V		M8+2 8 cont. Ga.20 2 cont. Ga.16 1100V		M14 14 contacts Gage 20 900V		
	M18 18 contacts Gage 20 500V		M30 30 contacts Ø1,3 400V		M6+1C50/1C75 6 cont. Ga.16 1 Coax. 50Ω Kx 23/Kx 6 1000V		
	M10+2C50 10 cont. Ga.20 2 Coax. 50Ω Kx 15 800V		M12+1C50/1C75 12 cont. Ø1,3 1 Coax. 50Ω/75Ω Kx 23/Kx 6 500V		M10+3C50 +1HV 10 cont. Ga.20 3 Coax. 50Ω Kx 3 + 1 HV Ø1,02 - 800V		
	M12+2 12 cont. Ø1,3 2 cont. Ø4 500V		M11+1HV 11 contacts Ø1,3 + 1 HV 500V/7000V		M12 12 cont. Ga.16 700V		
	U35 1 contact 35mm² 1000V						

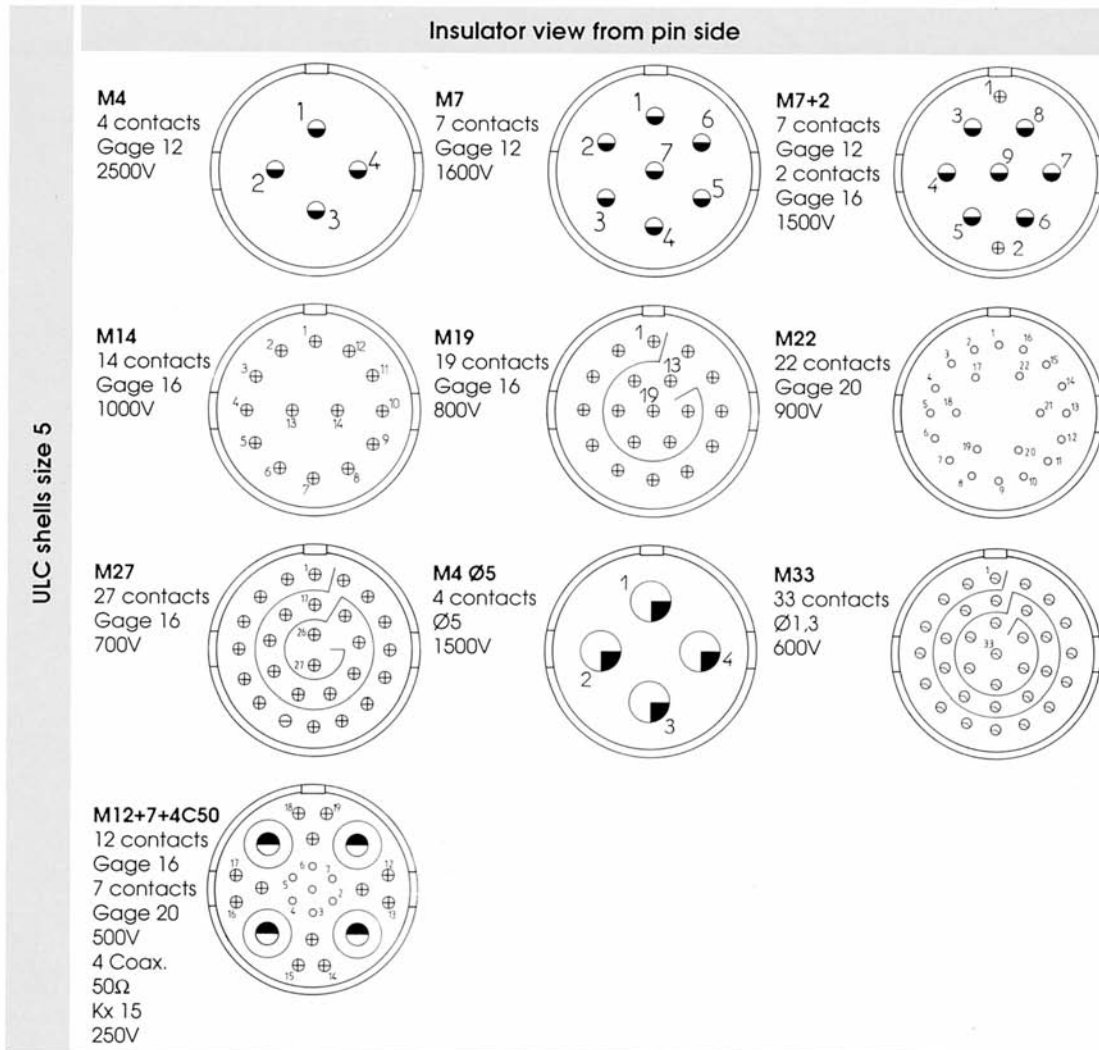
Insulation resistance size I, III, IV and V :  $\geq 5000$  Megohms under 500 Vdc  
(Unmated connectors)

# ULC Series



## Contact layouts

Shell size V (operating voltage Vdc and description)



## Electrical performance

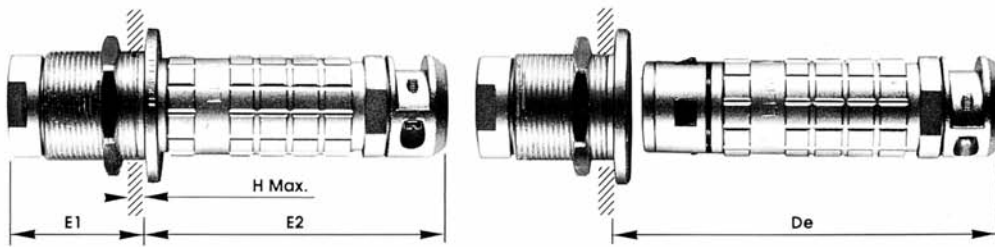
	Operating voltage Vdc	Test voltage Vdc	Operating voltage Vrms 50Hz	Test voltage Vrms 50Hz
Standard contacts	250	500	150	400
	400	800	250	600
	500	1000	350	700
	600	1200	400	800
	700	1500	500	1000
	800	1600	500	1000
	900	1800	600	1200
	1000	2000	700	1500
	1100	2200	700	1500
	1200	2500	800	1600
	1500	3000	1000	2000
	1600	3200	1000	2000
	2500	5000	1500	3000
	HV contact	2500	3500	1500

# ULC Series



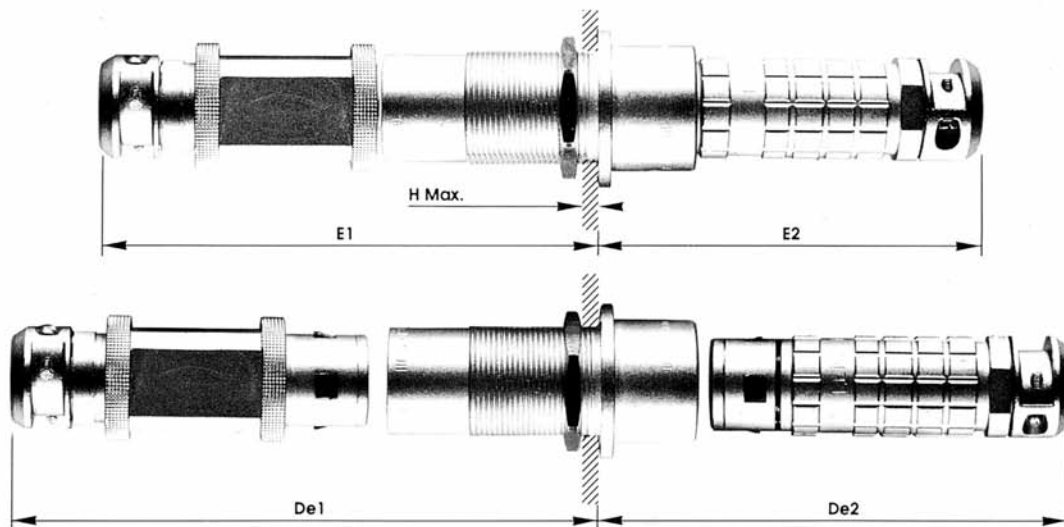
## Overall dimensions • Size I, III, IV et V

### Mated sets



	SIZE I				SIZE III				SIZE IV				SIZE V					
	E1	E2	De	H Max.	E1	E2	De	H Max.	E1	E2	De	H Max.	E1	E2	De	H Max.		
FE Mounted or FET with	RE	17,5	36	48	7	26	62	75	16	29	73	90	16	31	91	109	20	
	RESC	17,5	36	48	7	69	62	75	16	84	73	90	16	105	91	109	20	
	REC					10	74	91		20	90	107		18	112	135		
	RECSC					53	74	91		67	90	107		84	112	135		
	RES	9	44	56	7													
	RESSC	9	44	56	7													
PCE*	75	88			125	143			154	173			191	214				

\* Dimensions mentioned for cable receptacle are : mated length/unmated length



	SIZE III					SIZE IV					SIZE V					
	E1	E2	De1	De2	H Max.	E1	E2	De1	De2	H Max.	E1	E2	De1	De2	H Max.	
FE Mounted or FET with	TRE	96	74	113	91	21	109	88	128	107	21	129	109	152	135	21
	RME	160	72	72												

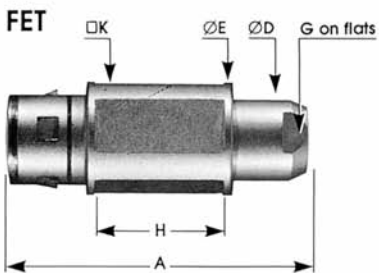
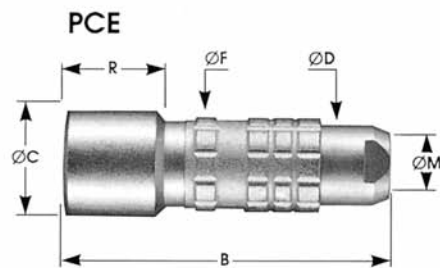
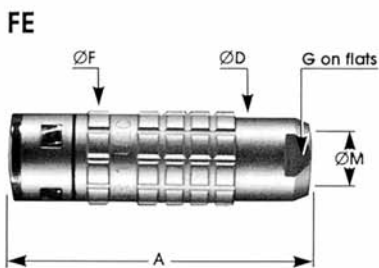
# ULC Series



## Overall dimensions • Size I

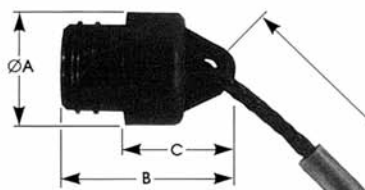
(multipin and coaxial connectors)  
Plugs FE, FET, cable receptacle PCE

Size	A	B	∅C	∅D	∅E	∅F	G	□K	H	M Max.	R
I	45	59	15	11,6	16	13,2	10	14	18	7	14

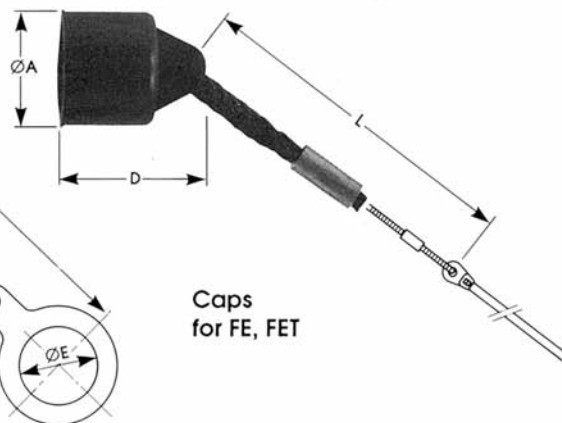


## Plug and receptacle caps

**BRE. I. 802**



**BFE. I. 802**



Caps  
for RE, RES,  
RESC, RESSC, PCE

Caps  
for FE, FET

Size	∅A	B	C	D	∅E	L
I	16	24	15	19,5	16	100

Material : EPDM

# ULC Series

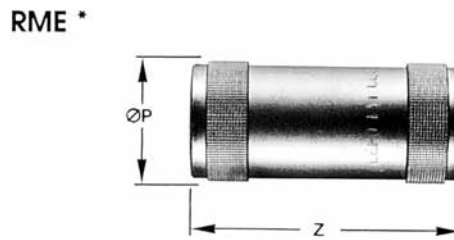
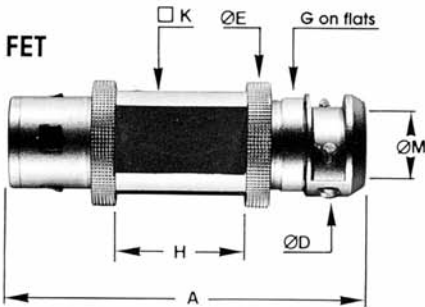
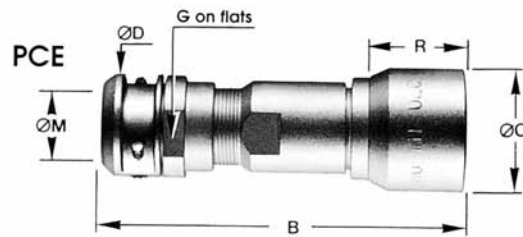
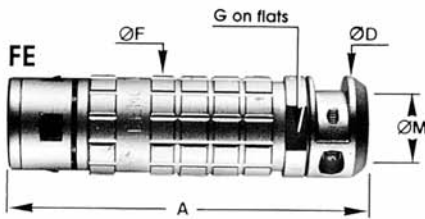


## Overall dimensions • Size III, IV and V

(multipin and coaxial connectors)

Plugs FE, FET, cable receptacle PCE, double receptacle RME

Size	A	B	ØC	ØD	ØE	ØF	G	H	□K	M	ØP	R	Z
III	70	71	24	20	24	19,5	18	25	19	11	23	18,5	52
IV	85	86	32	28	32	28,3	26	25	27	18		20	
V	104	107	41	36	42	38	34	25	36	24		24,5	

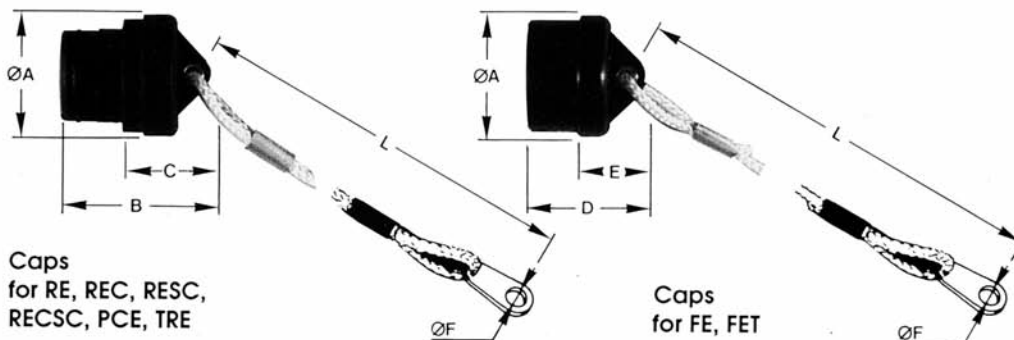


\* RME are available in coaxial version and fitted with Socket/Socket contacts.

## Plug and receptacle caps

BRE \*... 802

BFE \*... 802



Caps  
for RE, REC, RESC,  
RECSC, PCE, TRE

Caps  
for FE, FET

Size	ØA	B	C	D	E	ØF	L
III	24	29	17	23	13	4,2	240
IV	34	31	17	25	13	4,2	300
V	45	34	17	45	13	4,2	300

Material : EPD

\* To order ,  
mention shell size.

# ULC Series



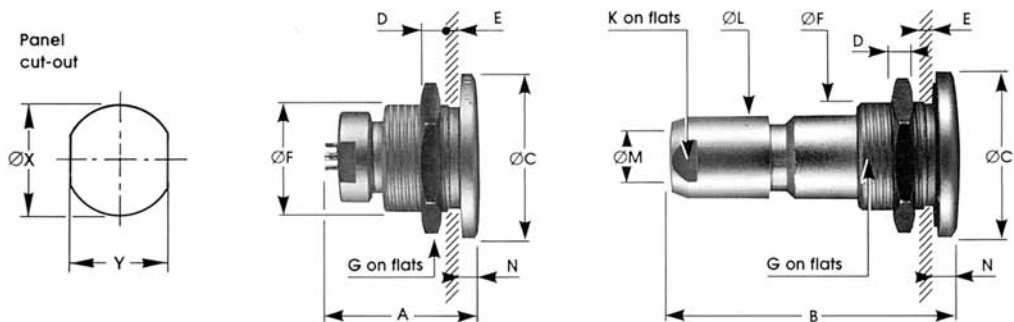
## Overall dimensions • Size I

### Receptacles (multipin and coaxial)

Round

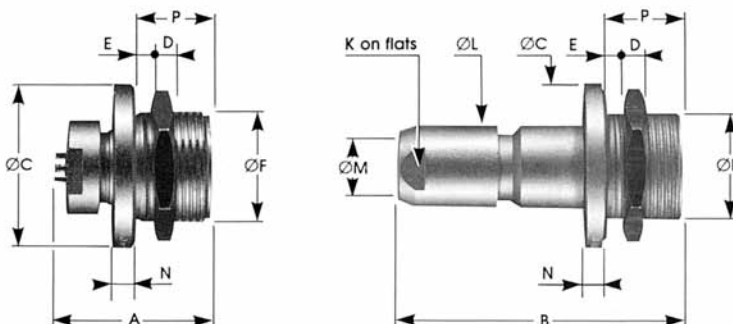
RE

RESC



RES

RESSC



Size	A	B	ØC	D	E	ØF	G	K	ØL	ØM	N	P	ØX	Y
					Max.					Max.			+0.2 -0	+0.2 -0
I	23	42	23	3	7	M16x1	19	10	11,6	7	2,5	11	16,1	15,1

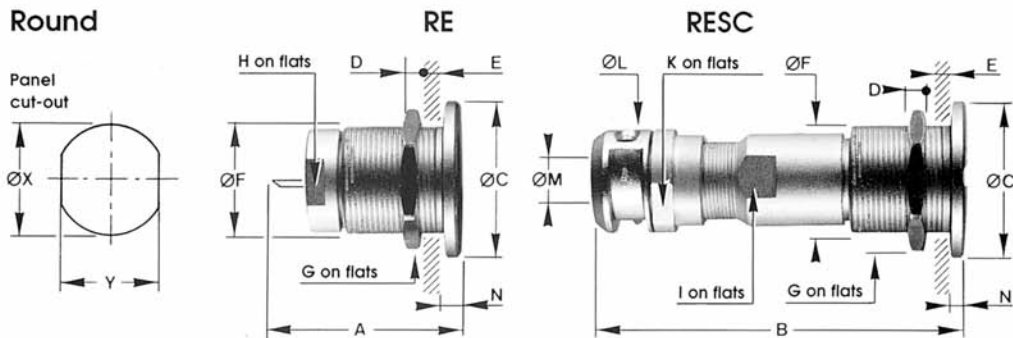
# ULC Series



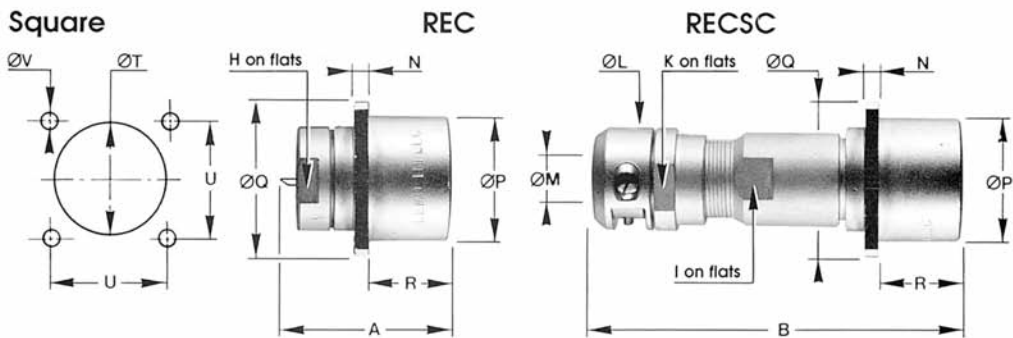
## Overall dimensions • Size III, IV and V

### Receptacles (multipin and coaxial)

#### Round



#### Square



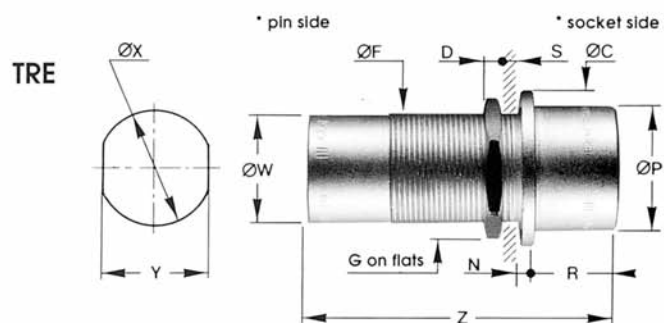
Size	A	B	ØC	D	E	ØF	G	H	I	K	ØL	ØM	N	ØP	Q	R	ØT	U	ØV	ØX	Y
	Max.										Max.		+0.2 -0		±0.1		+0.3 -0		+0.2 -0		
III	34	71	30	3	16	M22x1	24	18	16	18	20	11	2,5	24	29	16,4	20,5	23	3,2	22,1	20,9
IV	34	86	39	5	16	M31x1	36	27	25	26	28	18	2,5	32	37	17	29,5	29,4	3,2	31,1	29,7
V	42	108	52	5	20	M41x1	46	33	32	34	36	24	3	41	43,5	21,5	35,5	34,9	4,2	41,1	39,7

### Feed through

Possibility of pre-guiding fork, please consult us.

\* For multipin, feed through are fitted with socket contacts on a side and pin contact on the other one.

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



Size	ØC	D	ØF	G	N	ØP	R	S	ØW	ØX	Y	Z
	Max.								+0.2 -0		+0.2 -0	
III	30	3	M22x1	24	2,5	24	16	21	20,7	22,1	20,9	59
IV	39	5	M31x1	36	2,5	32	17	21	29,5	31,1	29,7	59,8
V	52	5	M41x1	46	3	41	21,5	21	39,4	41,1	39,7	69,4

# ULC Series

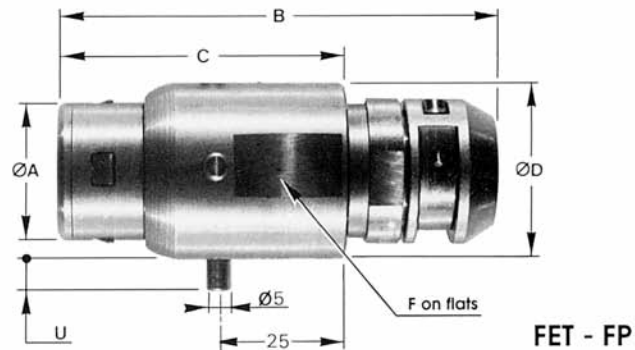


## Overall dimensions

Remote manipulated plugs and receptacles with spurs and pre-guiding forks • size III and IV ULC

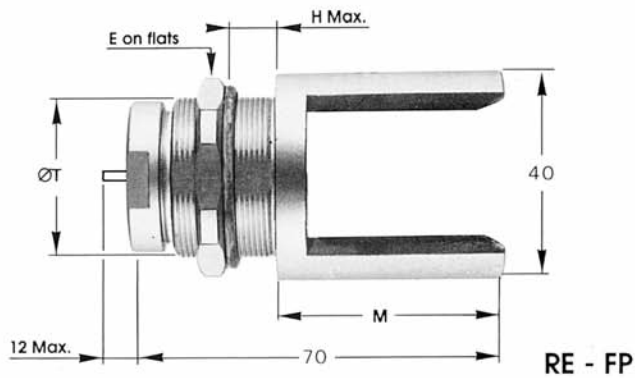
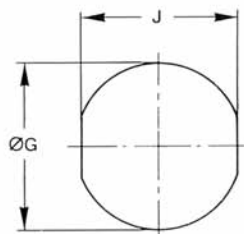
Size	ØA	B	C	ØD	E	F	ØG +0,2 - 0	H Max.	J +0,2 - 0	M	ØP	ØR +0,2 - 0	ØS +0,2 - 0	U	ØT
III	18	71,5	52,5	27	24	25	22,2	16	20,7	43,5	22	22,5	4,2	6	M22x1
IV	26,5	84,5	54,5	34	36	32	31,2	15	29,7	43	31	31,5	4,2	3	M31x1

Size	Force (N)	
	mating	unmating
III	40 ± 5	50 ± 5
IV	40 ± 5	50 ± 5

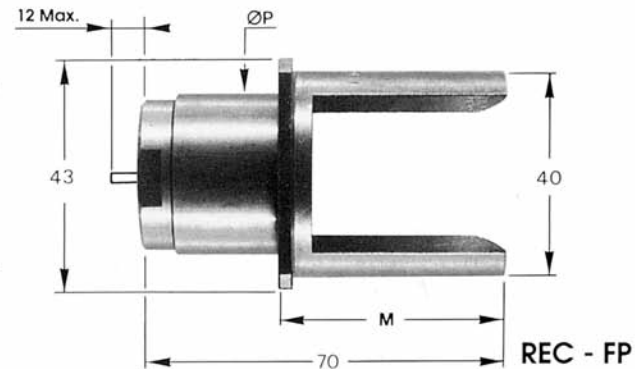
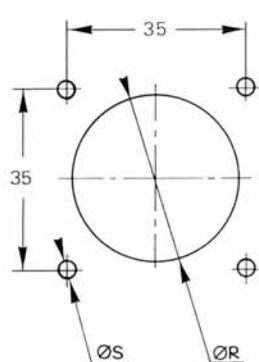


### Round receptacles

Panel cut-out



### Square receptacles



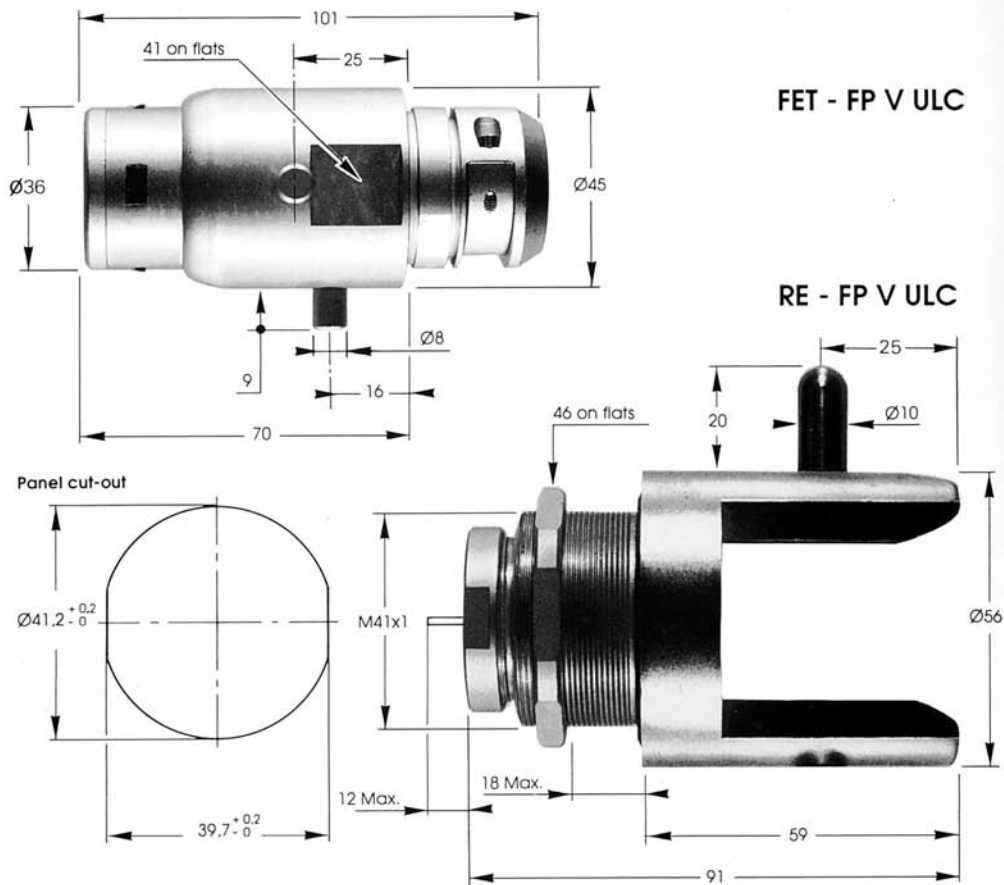


# ULC Series



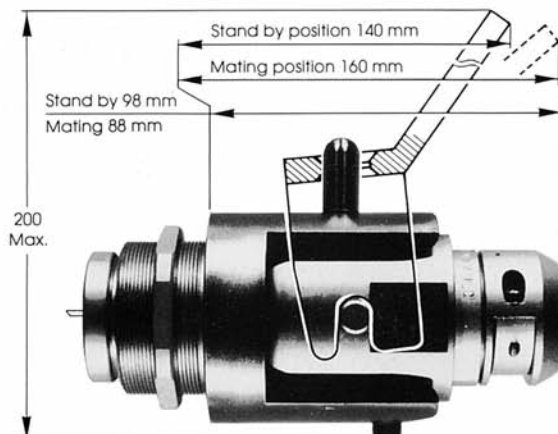
## Overall dimensions

Remote manipulated plugs and receptacles with spurs and pre-guiding forks • size V ULC



Size IV on request

Assembly with coupling lever



	Force
Mating	150 N ± 15
Unmating	150 N ± 15

Gearing down lever

Ref. : OUT FE GVP GC ULC

Lever gear ratio : 1/3.

# ULC Series

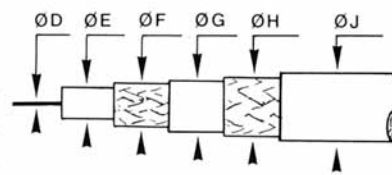


## Watertight triaxial connectors

Available in size III for three types of 75Ω cable (A - B or C)  
 For any other 75Ω or 50Ω, state the cable type at the end of the part number

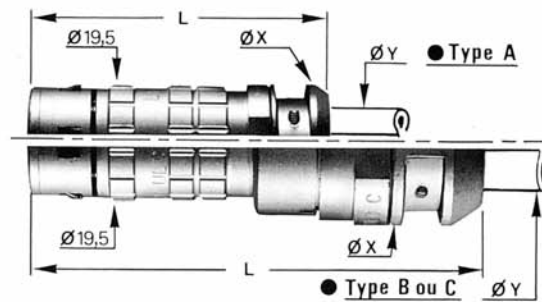
Cable type description :

	ØD	ØE	ØF	ØG	ØH	ØJ
Type A	1 ± 0.03	4.4 ± 0.13	5.1 max.	6.5 ± 0.2	7.3 max.	9 ± 0.25
Type B	1.78 ± 0.03	8 ± 0.2	8.9 max.	10.2 max.	11.1 max.	13 ± 0.4
Type C	2.5 ± 0.03	11 ± 0.2	12.3 max.	13.7 ± 0.2	14.8 ± 0.5	17.4 ± 0.5



## Plug overall dimensions

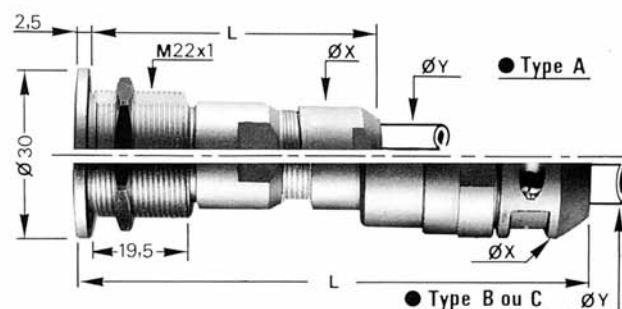
	L	ØX	ØY Max.
Type A	60	20	9,3
Type B	88	28	13,4
Type C	88	28	17,9



Reference :  
 FE III TCX75 A, B or C

## Receptacle RESC overall dimensions

	L	ØX	ØY Max.
Type A	58	18	9,3
Type B	94	28	13,4
Type C	94	28	17,9



Reference :  
 RESC III TCX75 A, B or C

## RE, REC, RME and TRE overall dimensions

Overall dimensions of these shells are standard, refer to tables on pages 14 and 16 (size III).



## Nuclear specific products

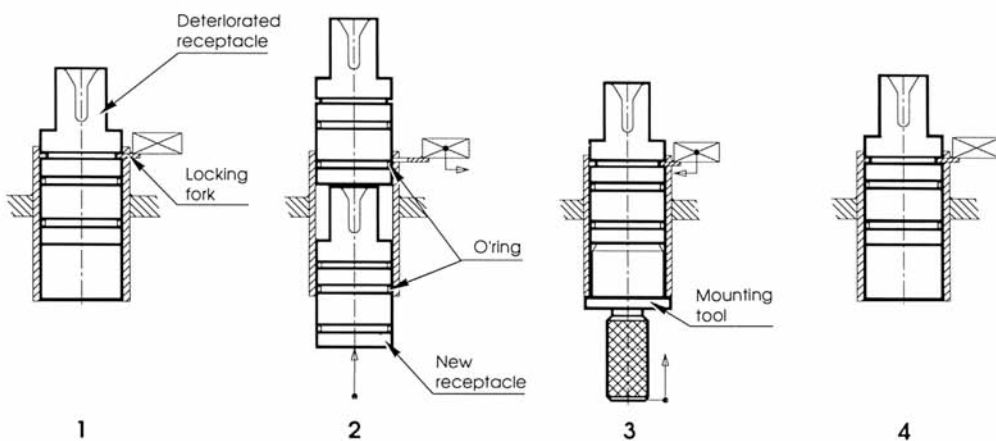
### Nuclear feed through with pre-guiding fork, quick replacement by remote manipulator • Size IV and V ULC

- The replacement of a deteriorated feed through can be fully undertaken by remote manipulator.
- No leak from contaminated area to the outside during replacement due to special design.
- The deteriorated feed through remains in the contaminated area
- Positive clamping by a locking fork.

Ref : TRE FP

### Feed through replacement process

#### CONTAMINATED AREA



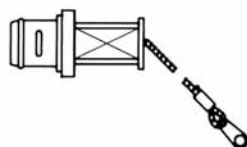
COLD SIDE

### Remote manipulated caps for plugs and receptacles • Size III, IV and V ULC

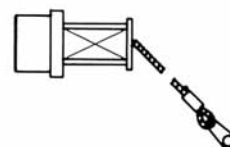
P/N : BERT\*...802 for RE, REC, RESC, RECSC, PCE and TRE.  
 BEFT\*...802 for FE, FT

\* : shell size

Caps for  
 RE, REC,  
 RESC,  
 RECSC,  
 PCE, TRE



Caps for  
 FE, FET



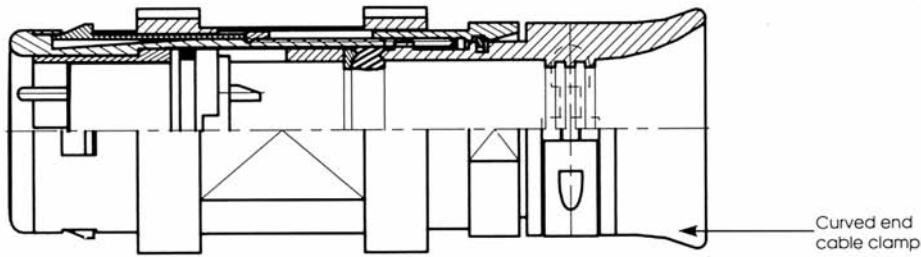
For further details : consult us



## Other products

### Curved end cable clamp

The curved shape at the cable clamp end reduces the mechanical strains in the cable

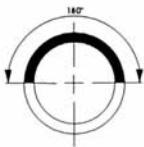
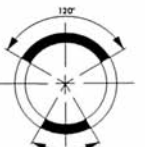

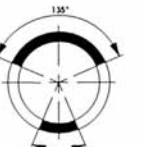

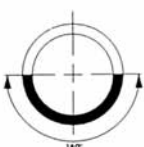
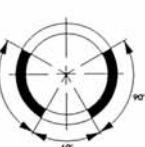
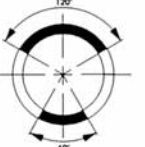
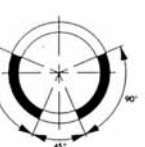
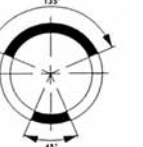


### Conductive seals

The copper-silver charged rubber gasket and receptacle O'ring improve the shell to shell conductivity.

### Keying

5 different polarizations available.

Position	P1 = standard	P2	P3	P4	P5
Color code	RED	BLUE	WHITE	YELLOW	GREEN
PLUG					
RECEPTACLE AND FEEDTHROUGH					

**Note :** only P1 keying for size 1.

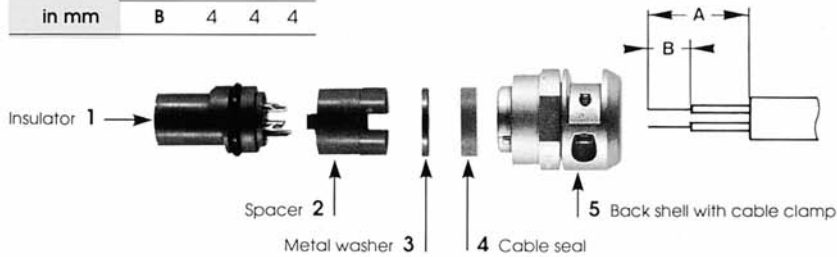
*For any developments or further details : please consult us.*



## Wiring instructions

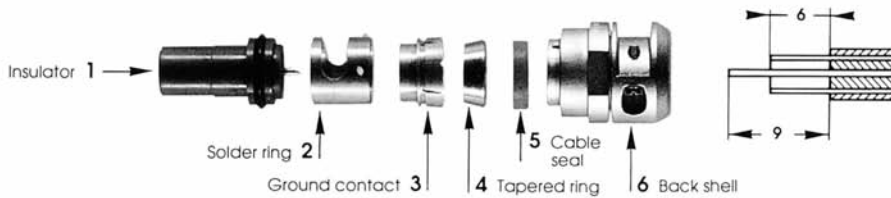
### Multipin connectors

	Size	III	IV	V
Lengths in mm	A	13	14	27
	B	4	4	4



- A Strip the cable in accordance with the diagram above
- Note** : The wires have to be cut to the position of the solder buckets
- B Slide the parts 5, 4, 3 and 2 over the cable in order
- C Slip a heat shrink tube on each conductor
- D Soft solder wires into contacts, starting at the center of insulator
- E Slide the heat shrink tubes against insulator and heat them
- F Mount the spacer n°2 on the insulator. Grease slightly the insulator O' ring
- G Use the mounting tools to mount and to rotate the set into the shell in order to find the correct polarization
- G Remove the tool, slide forward the metal washer, the cable seal and tighten the back-shell n°5, the connector being mated on a suitable receptacle

### Coaxial connectors

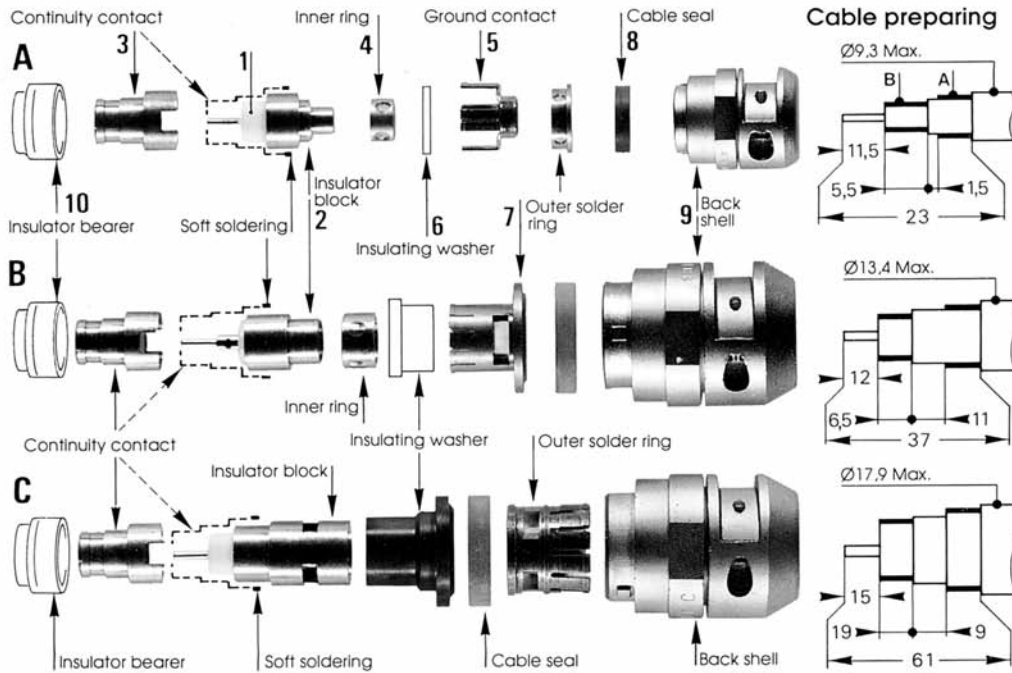


- A Mount the parts 6, 5, 4 and 3 over the cable
- B Strip the cable end in accordance with the diagram above
- C Comb out the braid, slide the part 3 up to edge of cable sheath and fold braid over it
- D Slide the part 2 over the braid, soft solder it in 4 spots
- E Insert the coaxial core into the contact and locate insulator in ring n°2 to soft solder the contact through the access window
- F Slide the tapered ring n°4 and the cable seal n°5 to come into contact with part 3
- G Engage the assembly into the connector shell and rotate to find the right polarization. Then, tighten the back-shell n°6, the connector being mated on a suitable receptacle



## Wiring instructions

### Triaxial connectors for cables A - B and C



- 1° Mount the parts 9, 8 and 7 over the cable in the correct order
- 2° Strip the cable end at Max. dimensions indicated above
- 3° Insert the ground contact n° 5 fitted with the insulating washer n°6 under the outer braid A, slide back the ring n°7 into contact with part 5, then soft solder both parts in 4 spots
- 4° Slide the part 4 over the inner braid B, separate the insulator n°1 from the block n°2, then slide this block over the braid B, taking care to correctly insert the coaxial core into the contact
- 5° Replace the insulator n°1 and the continuity contact n°3  
Soft solder the contact n°3 and the block through the two access windows
- 6° Mount the insulator bearer onto the contact n°3 and slide back parts 8 and 9 into contact with ring n°7
- 7° Insert the assembly cable into the shell
- 8° Tighten the back-shell n°9 with a flat wrench, the connector being mated on a suitable receptacle

**Note :** When operations 3 and 4 are completed, check the quality of the solders by testing the insulation resistance under 500 Vdc.

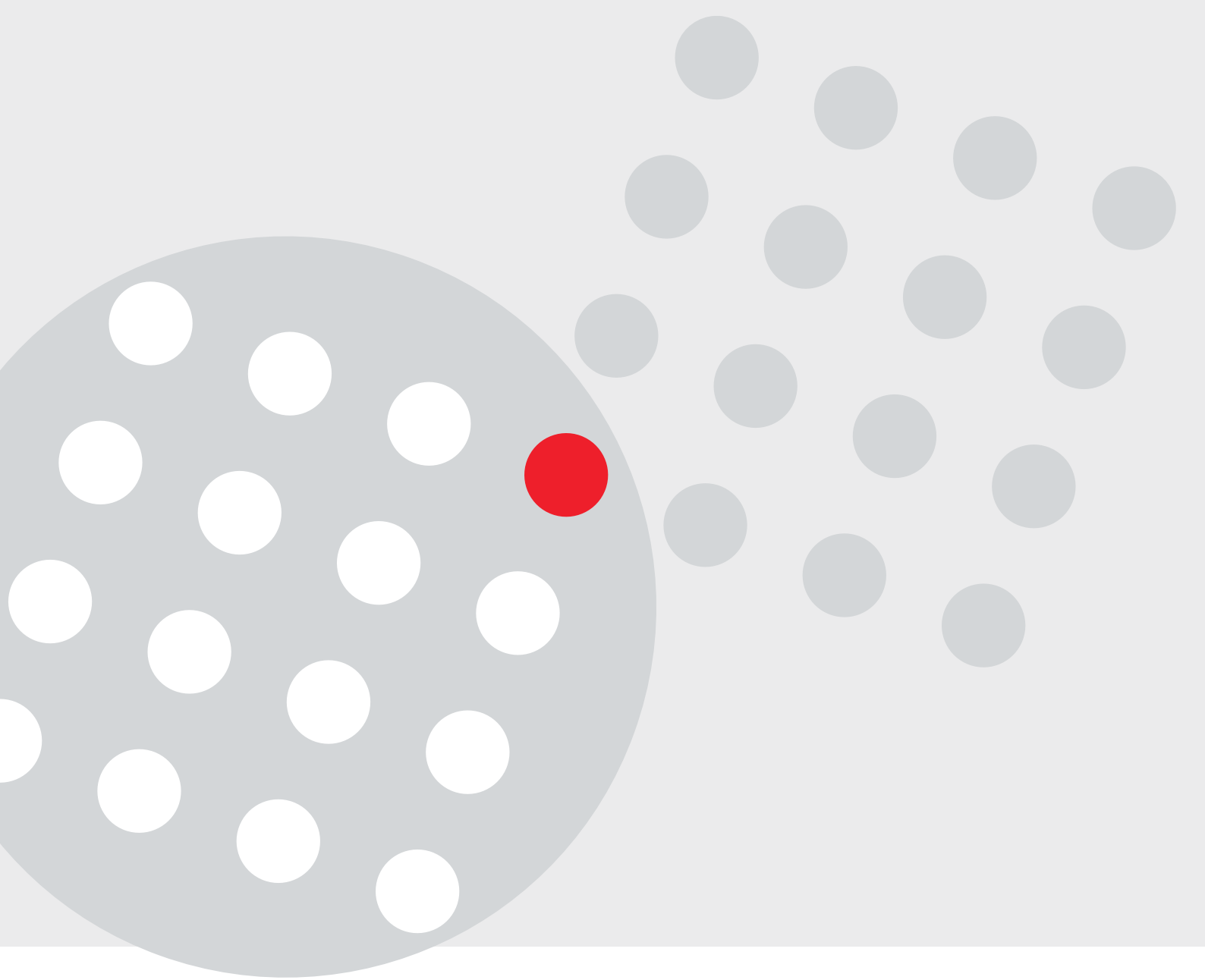
#### Max. torque :

##### • Receptacle nut :

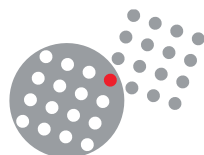
Size	III	IV	V
Torque N.m	10 ± 0.5	20 ± 1	35 ± 2

##### • Back-shell :

Size	III	IV	V
Torque N.m	4,5 ± 0,3	15 ± 1	35 ± 2



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