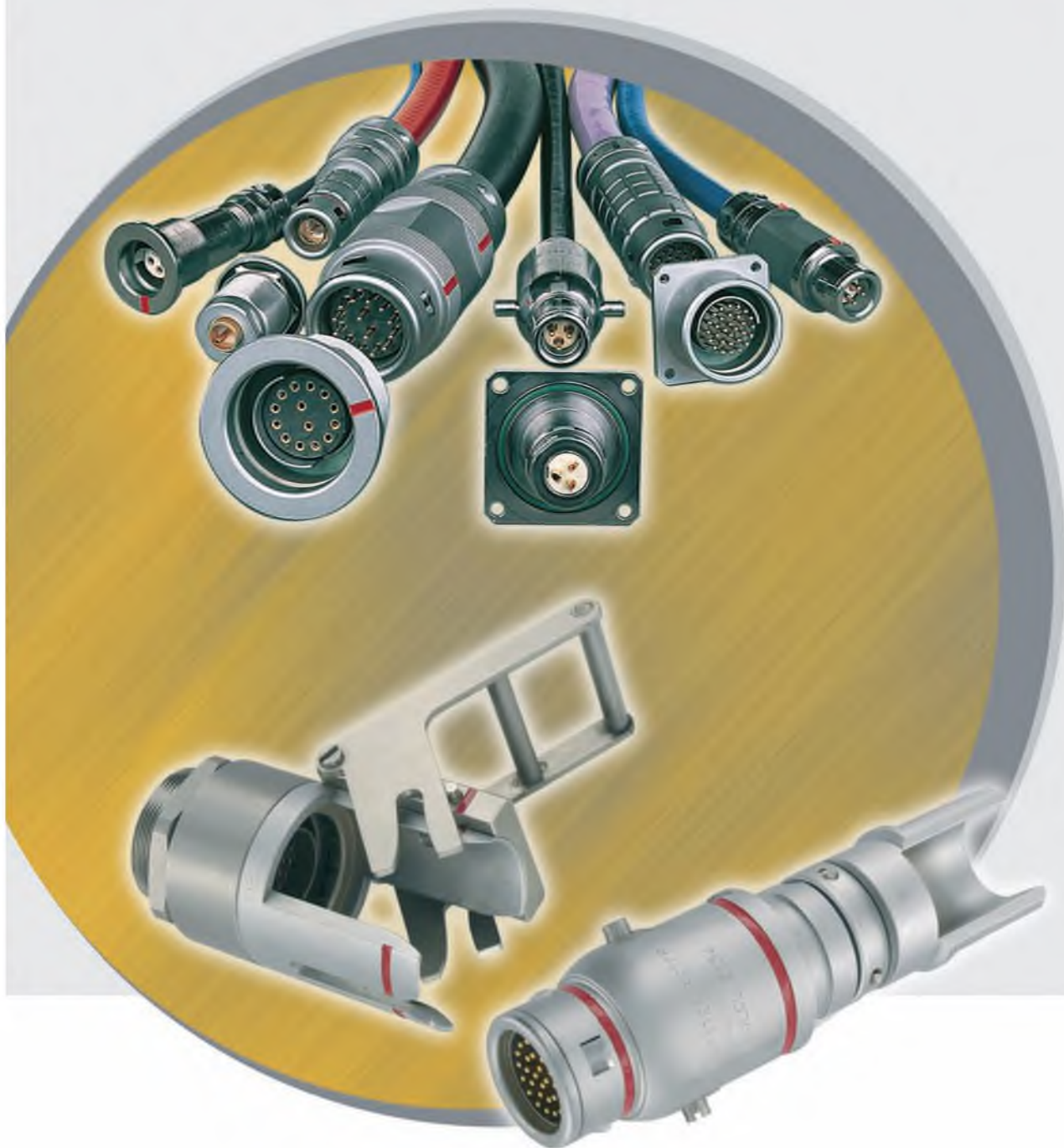




ULC Series

Push-Pull Connectors for Nuclear Industry

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

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

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

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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Киргизия +996(312)96-26-47

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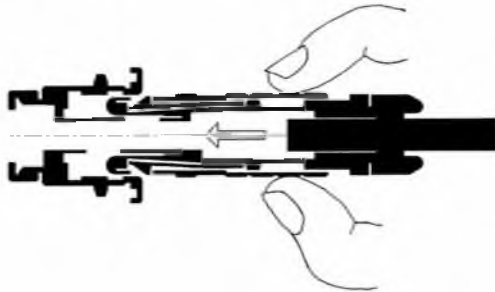
Summary

	Page
• Push-pull system	4
• General description	5
• How to order	6
• Product range	7-8
• Contact layouts :	
• size I	9
• size III	9
• size IV	10
• size V	11
• Overall dimensions of mated sets	12
• Overall dimensions :	
• 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
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• of triaxial connectors	19
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ULC Series



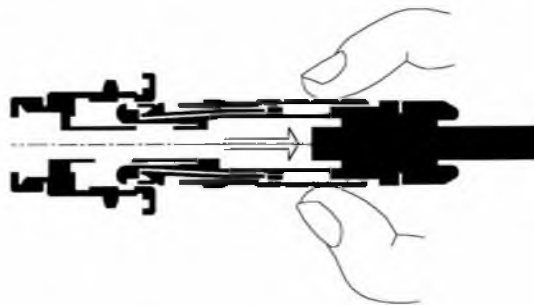
Push-pull system



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

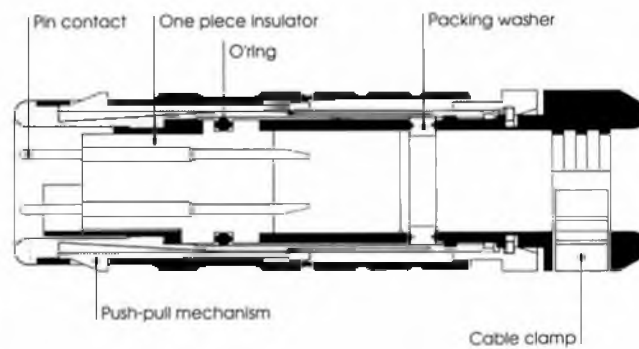
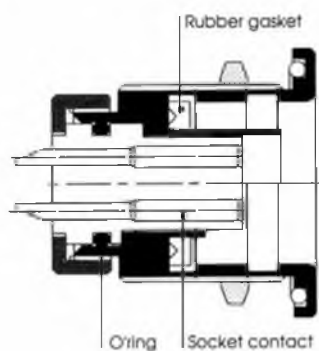


Connection cannot be broken by pulling the cable or any other parts of the plug than the outer shell.



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

Receptacle and plug sections



ULC Series



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 ⁸	3,4	X	X	X
	TEFLON * *	TF	-50 +170	60	1.10 ⁴	2,6	X	X	X
	KELANEX *	K	-50 +170	18	1.10 ⁶	3,8	X		
Special	TEFZEL	TZ	-50 +170	60	5.10 ⁷	2,6	X	X	X
	PEEK * *	N	-50 +250	35	1.10 ⁹	2,6	X		
	POLYETHYLENE	P	-40 +100	33	1.10 ⁸	3,2	X		
	POLYPROPYLENE	PP	-10 +100	60	5.10 ⁴	2,5	X		
	VESPEL	V	-60 +260	22	4.10 ⁹	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	10
	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
FE : Straight plug								
FET : Remote manipulated straight plug								
RE : Round receptacle, front mounting								
REC : Square receptacle								
RECSC : Square receptacle with cable clamp								
RES : Round salient receptacle, rear mounting								
RESC : Round receptacle with cable clamp, front mounting								
RESSC : Round receptacle with cable clamp, rear mounting								
PCE : Cable receptacle								
TRE : Feed through bulkhead								
RME : Double receptacle								
FETFP : Remote manipulated straight plug with pre-guiding spurs								
REFP : Round receptacle with pre-guiding fork								
RECFP : Square receptacle with pre-guiding fork								

Contacts * :

M : Pin contacts
F : Socket contacts

Shell sizes :

I III IV V

Contact layouts : (see pages 9, 10 and 11)

Mxxx : Multipin + contact layout reference
Cxx : Coaxial + impedance (50Ω or 75Ω)
TCXxx : Triaxial + impedance (50Ω or 75Ω)

Shell to shell conductivity ** :

T : Contact n°1 connected to shell ground (multipins only, except feed through)

Series :

ULCL : ULC series, brass shell
ULCT : ULC series, titanium shell

Insulator material : (see table page 5)

S : Nylatron G.S.
TF : Teflon
K : Kelanex
TZ : Tefzel
N : PEEK
P : Polyethylene
PP : Polypropylene
V : Vespel (consult us)

Cable outer diameter :

xxx : Mention cable outer diameter in 1/10^e of mm
A, B or C : For 75Ω triaxial, state the letter in accordance with the cable used (see page 19).

Keying : P1, P2, P3, P4, P5 (see table page 21)

* 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	C50 1 Coax. 50Ω Kx 23		C75 1 Coax. 75Ω		M1 1 contact Ø2 1200V	
	M2 2 contacts Ø1.3 700V		M3 3 contacts Ø0.9 900V		M4 4 contacts Ø0.9 600V	
	M8 8 contacts Ø0.7 250V					
ULC shells size 3	M2 2 contacts Gage 16 700V		M3 3 contacts Gage 16 700V		M4 4 contacts Gage 16 700V	
	M5 5 contacts Gage 20 700V		M7 7 contacts Gage 20 700V		M8 8 contacts Gage 20 600V	
	M12 12 contacts Ø0.9 400V		M19 19 contacts Ø0.9 250V		C50 1 Coax. 50Ω Kx 23 1500V	
	C75 1 Coax. 75Ω 1500V		TCX50 1 Triax. 50Ω 1000V		TCX75 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 Tex 50		1,4	6	≤ 3
	Triax Tex 75		1	5	≤ 4

ULC Series



Contact layouts

Shell size IV (operating voltage Vdc and description)

Insulator view from pin side

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

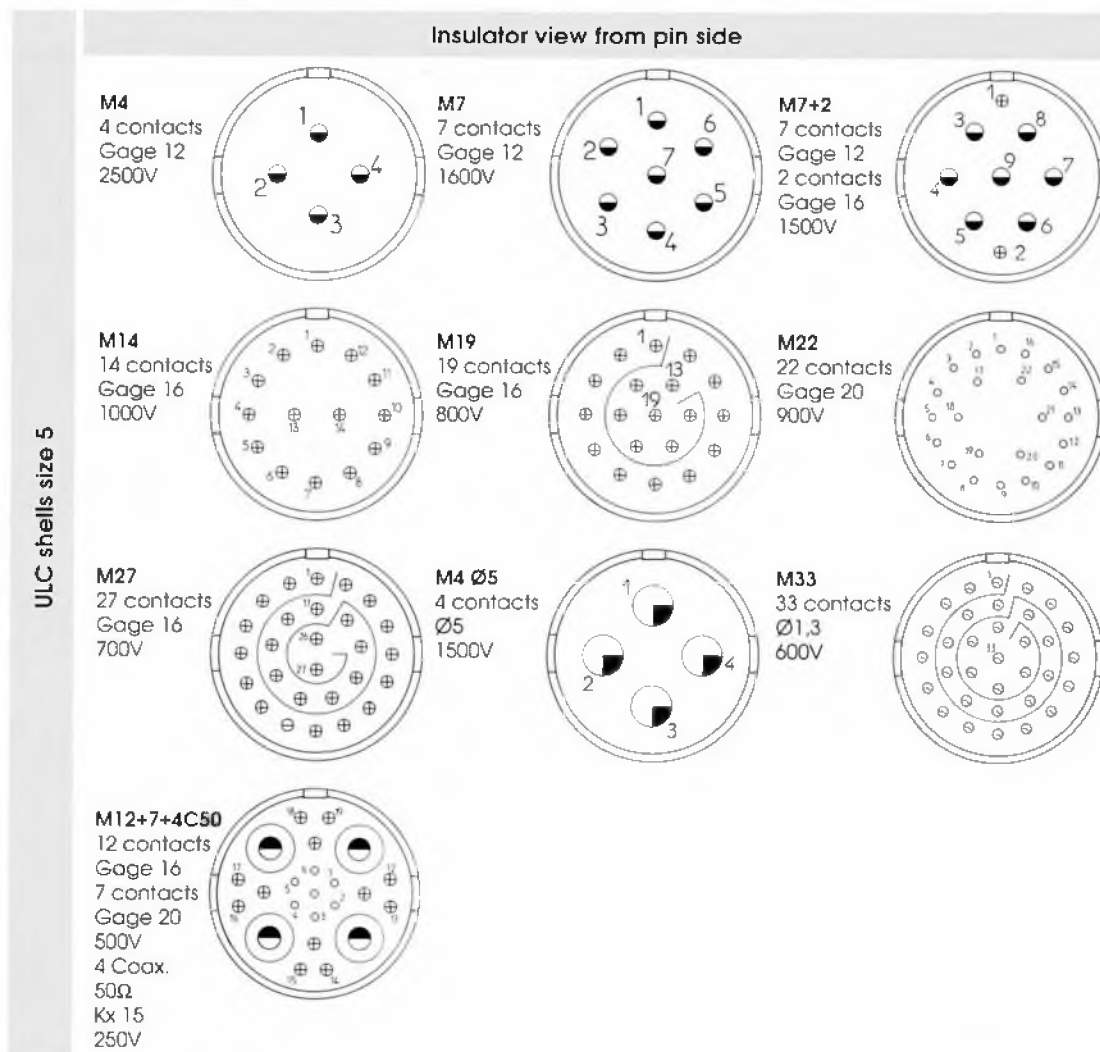
Insulation resistance size I, III, IV and V : ≥ 5000 Megohms under 500 Vdc
(Unmated connectors)

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
	2500	3500	1500	2000
HV contact	2500	3500	1500	2000

Technical drawing of a bolt showing two views. The top view shows the bolt with dimensions $De1$ and $De2$ indicated. The bottom view shows the bolt with dimensions $E1$ and $E2$ indicated. A dimension $H_{Max.}$ is also shown, indicating the maximum height of the hexagonal head.

FE	Mounted	or	FET with	PCET																
				RE	RESC	REC	RECSC	RES	RESSC	75	88	125	143	154	173					
				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												

FET	FE	Mounted	TRE	RME
			96	160
			74	72
			113	72
			91	72
			21	21
			109	88
			88	128
			107	21
			129	109
			152	135
			21	21

ULC Series

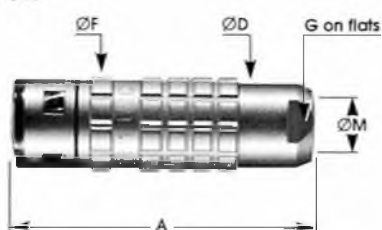


Overall dimensions • Size I

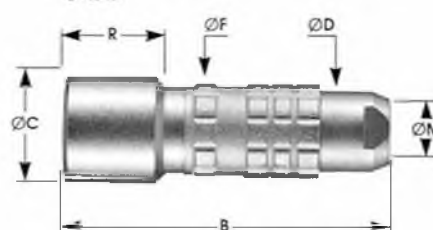
(multipin and coaxial connectors)
Plugs FE, FET, cable receptacle PCE

Size	A	B	ØC	ØD	ØE	ØF	G	□K	H	M Max.	R
I	45	59	15	11,6	16	13,2	10	14	18	7	14

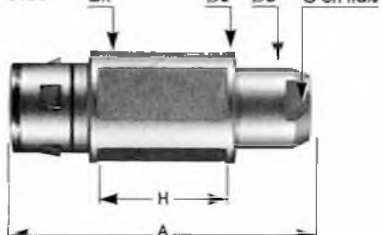
FE



PCE

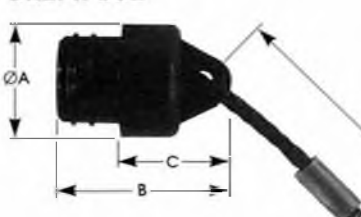


FET

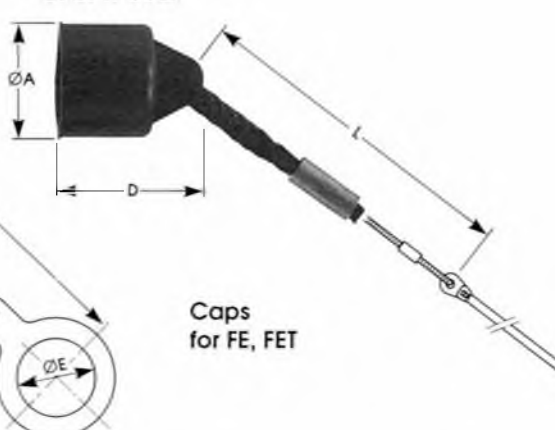


Plug and receptacle caps

BRE. I. 802



BFE. I. 802



Caps
for RE, RES,
RESC, RESSC, PCE

Caps
for FE, FET

Size	ØA	B	C	D	ØE	L
I	16	24	15	19,5	16	100

Material : EPDM

ULC Series

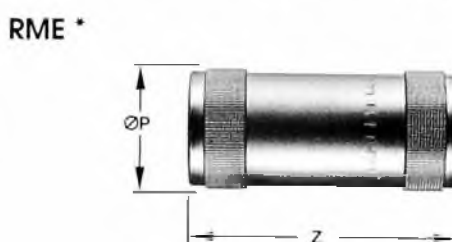
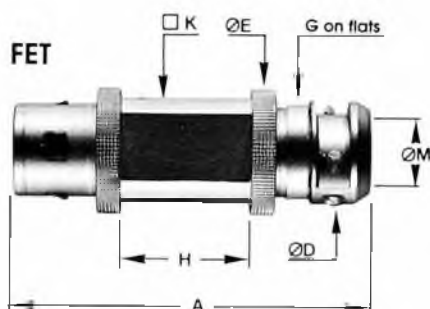
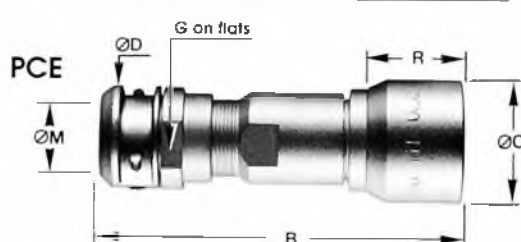
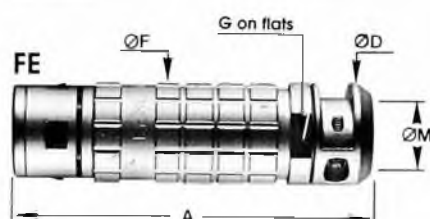


Overall dimensions • Size III, IV and V

(multipin and coaxial connectors)

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

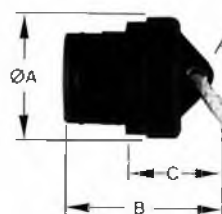
Size	A	B	ØC	ØD	ØE	ØF	G	H	□K	M	ØP	R	Z
										Max.			
III	70	71	24	20	24	19,5	18	25	19	11	23	18,5	52
IV	85	86	32	28	32	28,3	26	25	27	18		20	
V	104	107	41	36	42	38	34	25	36	24		24,5	



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

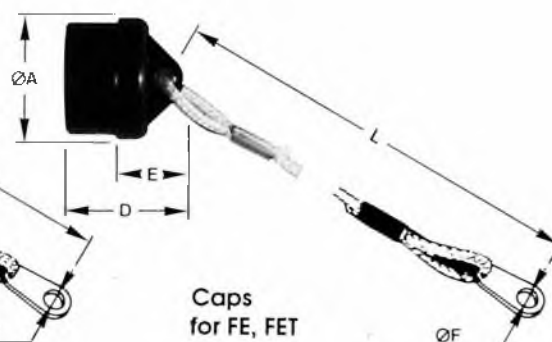
Plug and receptacle caps

BRE *... 802



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

BFE *... 802



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



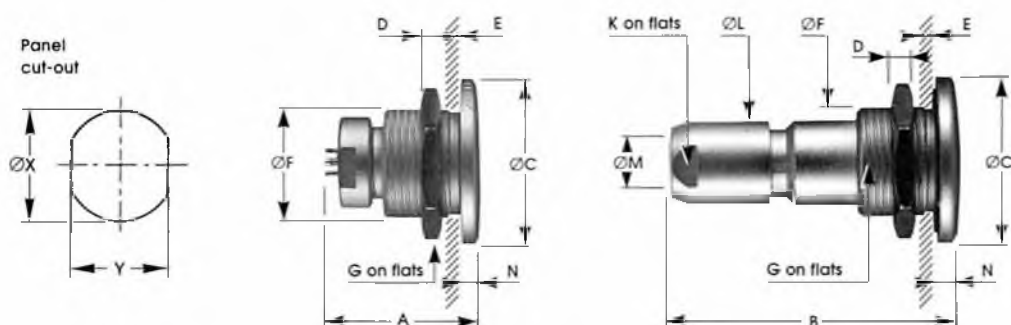
Overall dimensions • Size I

Receptacles (multipin and coaxial)

Round

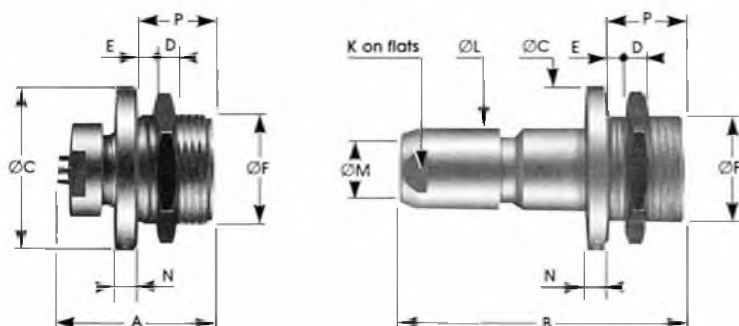
RE

RESC



RES

RESSC



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

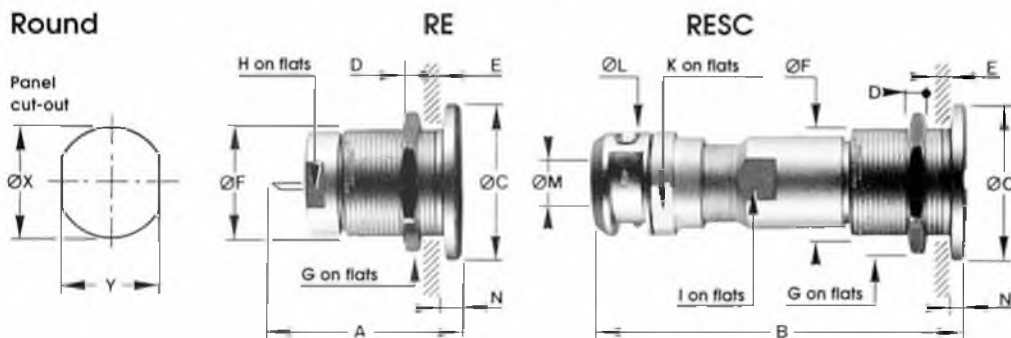
ULC Series



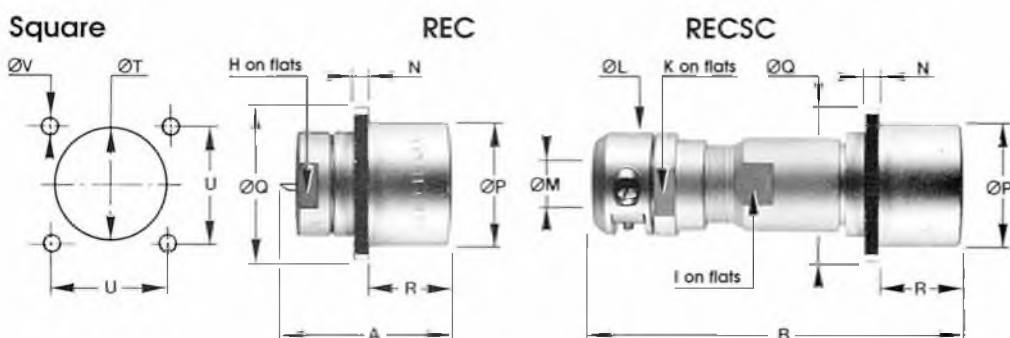
Overall dimensions • Size III, IV and V

Receptacles (multipin and coaxial)

Round



Square



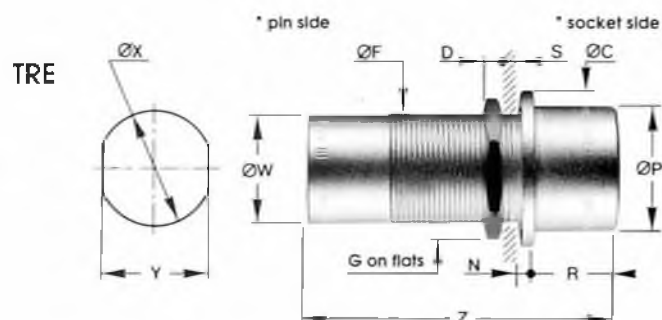
Size	A	B	ØC	D	E	ØF	G	H	I	K	ØL	ØM	N	ØP	Q	R	ØT	U	ØV	ØX	Y
					Max.							Max.					+0.2 -0	±0.1	+0.3 -0	+0.2 -0	+0.2 -0
III	34	71	30	3	16	M22x1	24	18	16	18	20	11	2.5	24	29	16,4	20,5	23	3,2	22,1	20,9
IV	34	86	39	5	16	M31x1	36	27	25	26	28	18	2.5	32	37	17	29,5	29,4	3,2	31,1	29,7
V	42	108	52	5	20	M41x1	46	33	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

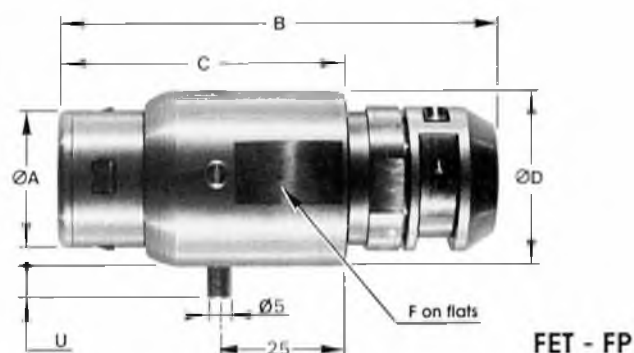


Overall dimensions

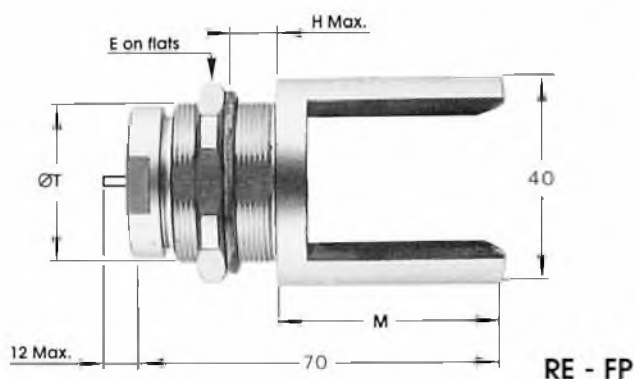
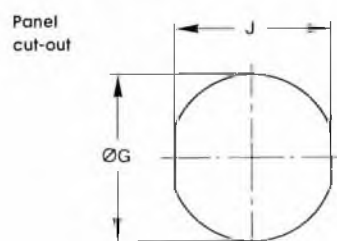
Remote manipulated plugs and receptacles with spurs and pre-guiding forks • size III and IV ULC

Size	ØA	B	C	ØD	E	F	ØG +0.2 -0	H Max.	J +0.2 -0	M	ØP +0.2 -0	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

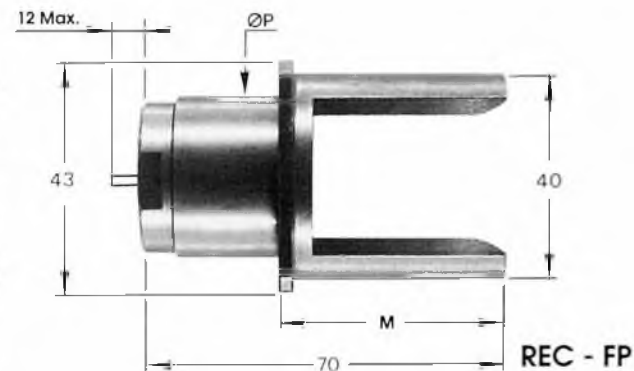
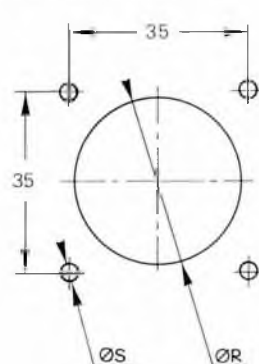
Size	Force (N)	
	mating	unmating
III	40 ± 5	50 ± 5
IV	40 ± 5	50 ± 5



Round receptacles



Square receptacles

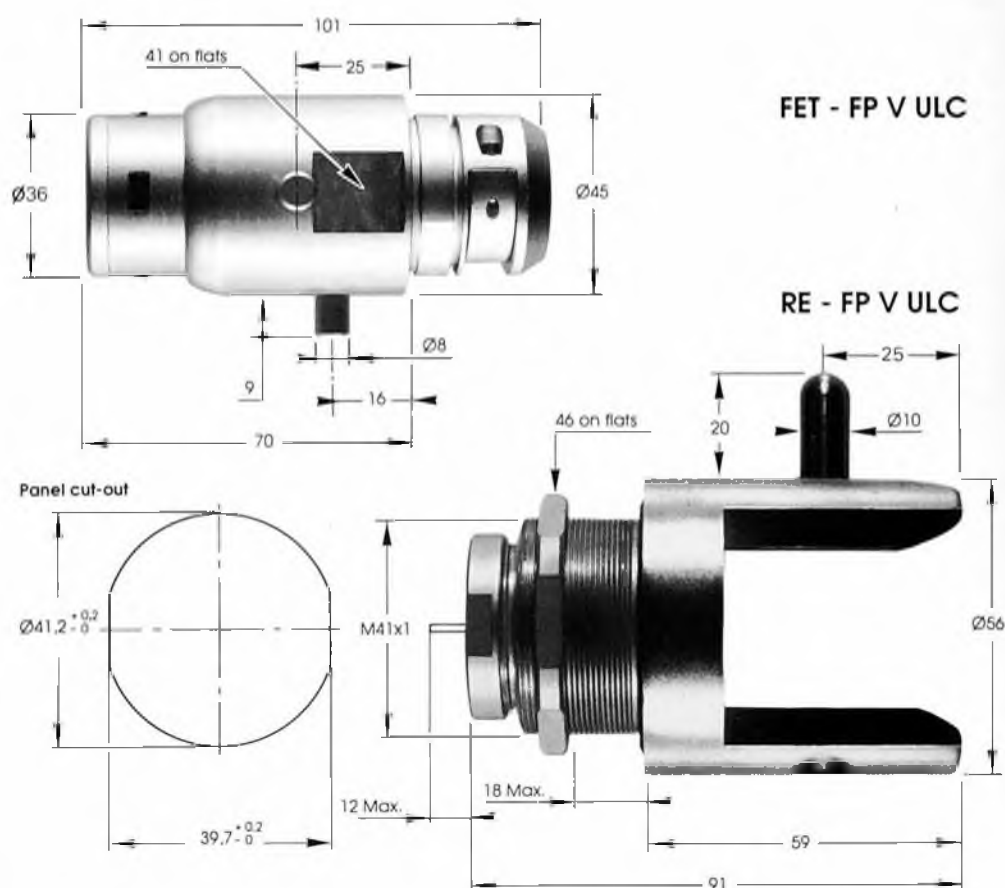


ULC Series



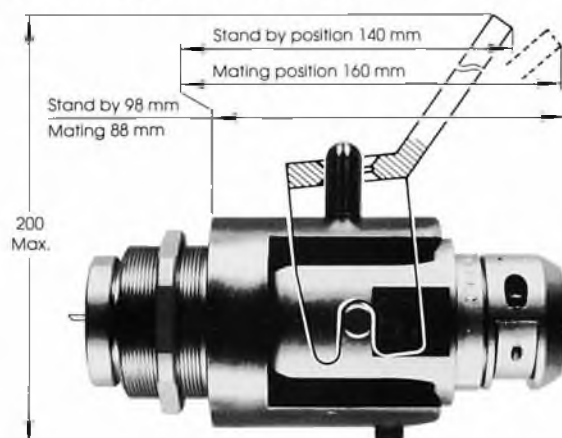
Overall dimensions

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 $\pm$ 15
Unmating	150 N $\pm$ 15

Gearing down lever

Ref. : OUT FE GVP GC ULC

Lever gear ratio : 1/3.

ULC Series

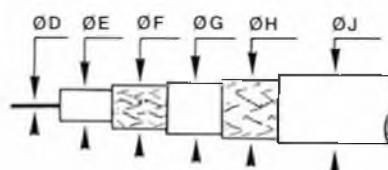


Watertight triaxial connectors

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

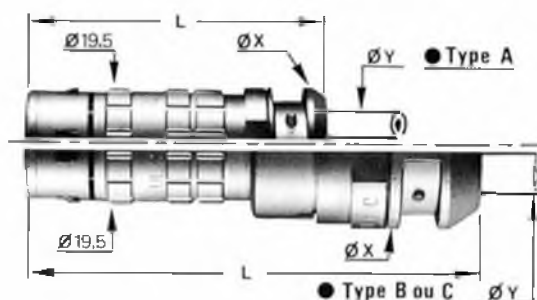
Cable type description :

	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

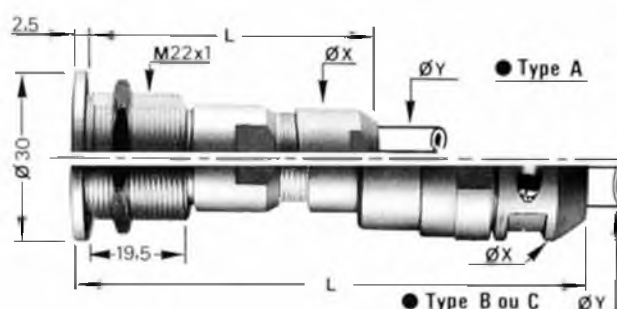


Reference :

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

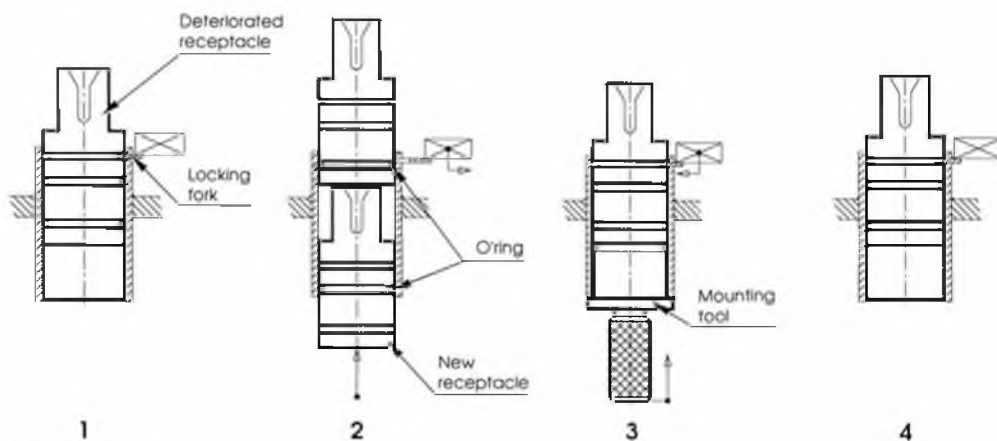
Nuclear feed through with pre-guiding fork, quick replacement by remote manipulator • Size IV and V ULC

- 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



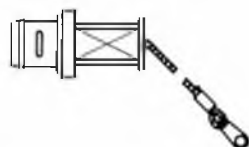
COLD SIDE

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

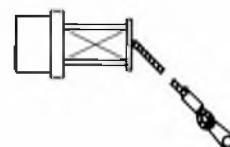
P/N : BERT*...802 for RE, REC, RESC, RECSC, PCE and TRE.
BEFT*...802 for FE, FT

* : shell size

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



Caps for
FE, FET



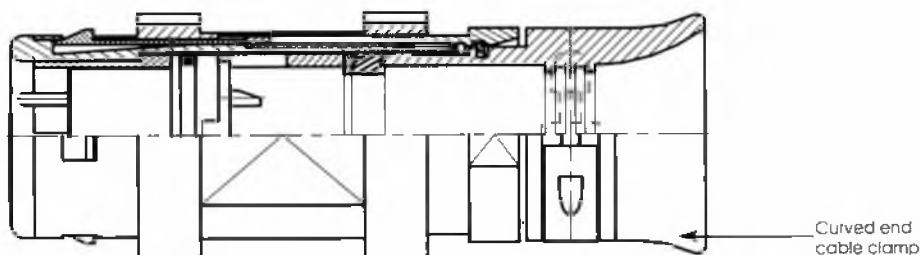
For further details : consult us



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.

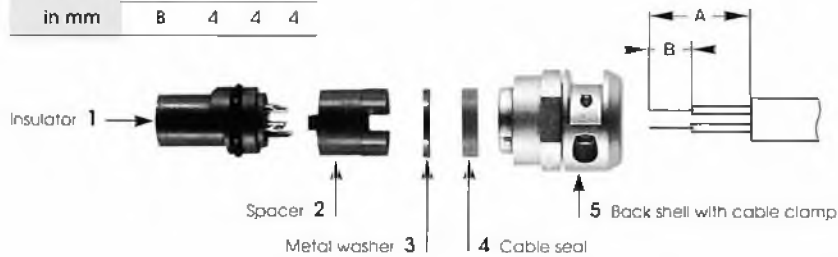
For any developments or further details : please consult us.



Wiring instructions

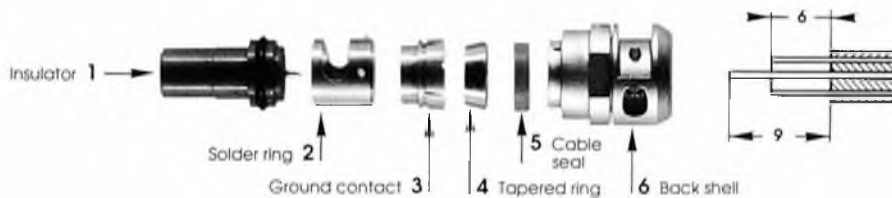
Multipin connectors

	Size	III	IV	V
Lenghts	A	13	14	27
in mm	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
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



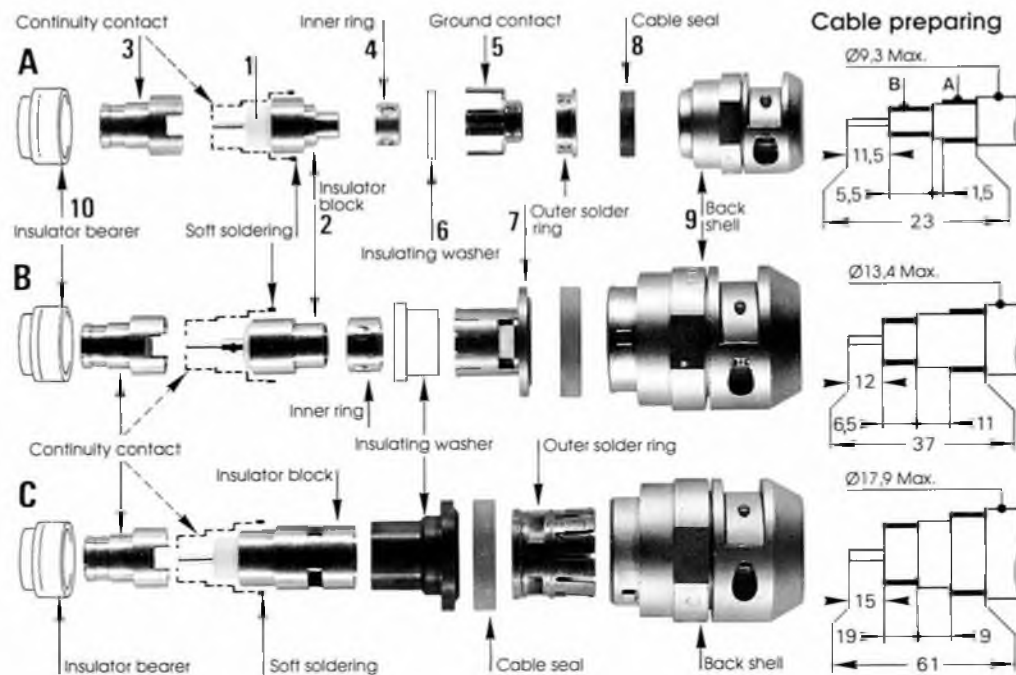
- A Mount the parts 6, 5, 4 and 3 over the cable
- B Strip the cable end in accordance with the diagram above
- C Comb out the braid, slide the part 3 up to edge of cable sheath and fold braid over it
- D Slide the part 2 over the braid, soft solder it in 4 spots
- E Insert the coaxial core into the 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

ULC Series



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.

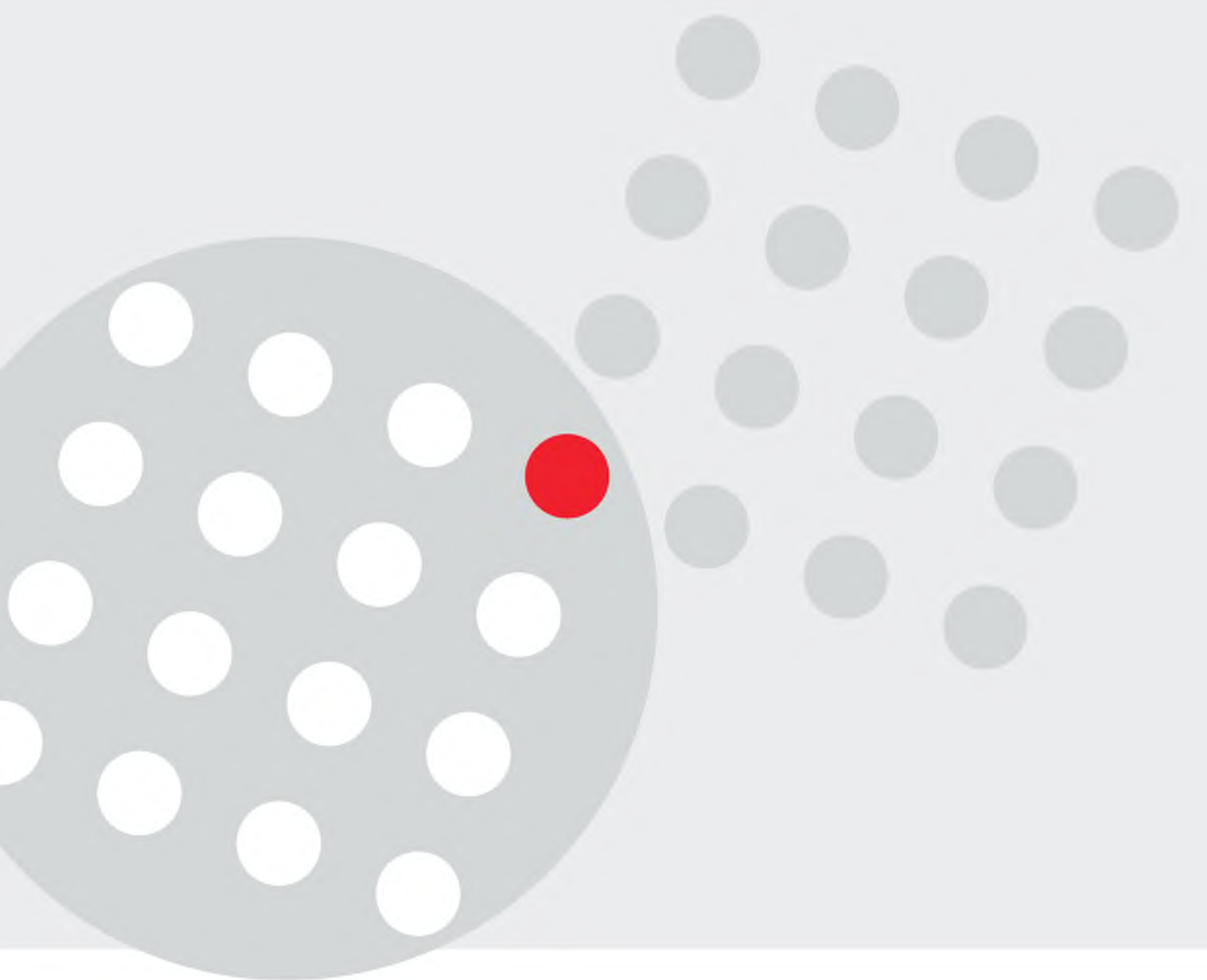
Max. torque :

• 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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