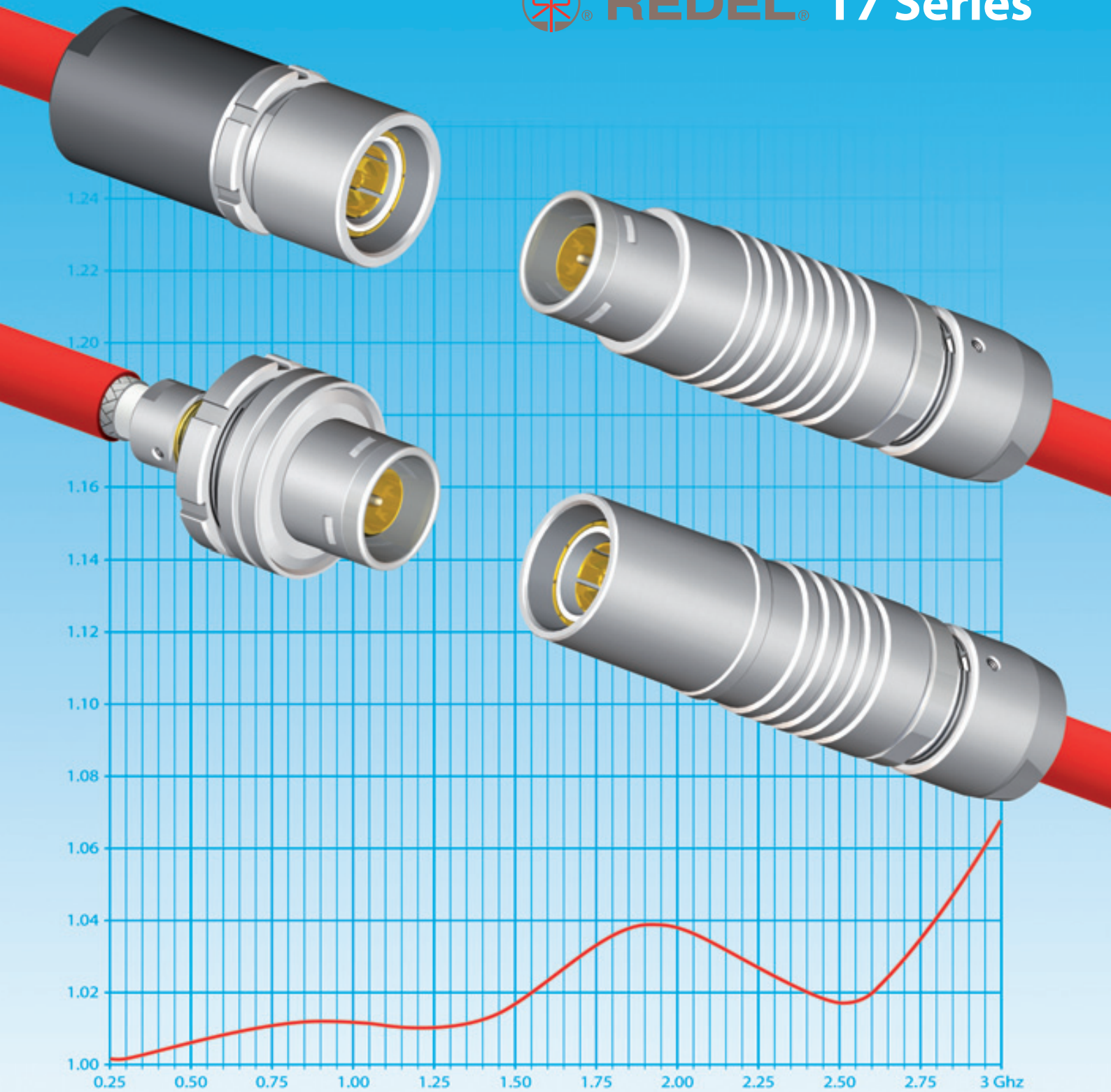




REDEL® T7 Series



Since its foundation in 1946, the LEMO company has been the inventor of the fast latching Push-Pull system in the field of professional connectors. This system was patented in 1957. In 1991 the company patented a new latching system for DIN 1.0/2.3 and 1.6/5.6 connectors; in 1997 for a hermaphroditic system and in 2008 for an inverted system.

The LEMO Group contributed to the definition of international connector standards, such as the NIM-CAMAC CD/N 549 for nuclear research with the 00.250 series and the ANSI/SMPTE 304/311M, EBU R100 and ARIB BTA S-1005B standards with the 3K.93C fibre optic series in the professional HD TV sector.

The modular design of LEMO products provides for unlimited number of connector combinations. This vast choice makes it possible to find the ideal connector configuration to meet the majority of market requirements: for medical or measurement instruments, machines, audio-video broadcast equipment, telecommunications, the defence market or nuclear research.

The selection of the right connector for a project is an important and sometimes difficult process.

LEMO offers professional support for finding the best solution for you. You are welcome to contact LEMO subsidiaries and local partners for technical and sales assistance.

For some applications unique design is required. LEMO studies your requirements and provides the connector that corresponds to your specific needs.

UL Recognition

LEMO connectors are recognized by the Underwriters Laboratories (UL). The approval of the complete system (LEMO connector, cable and your equipment) will be easier because LEMO connectors are recognized.

CE marking

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives.

CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

RoHS

LEMO connector specifications exceed the requirements of the RoHS directive (2011/65/EU) of the European Parliament and the latest amendments.

This directive specifies the restrictions of the use of hazardous substances in electrical and electronic equipment marketed in Europe.

REACH declaration

REACH concerns all industrial sectors as well as all the participants in the supply chain. As far as REACH regulation is concerned, LEMO is a producer of items made from finished products.

In cooperation with our suppliers and according to our supply channels, we are kept informed about their procedures of pre-registration and we guarantee the safety of utilisation of the items that we supply to you. The European Chemical Agency (ECHA) has published a List of Substance of Very High Concern (SVHC) on its webpage. We declare that LEMO articles do not contain any substance of Very High Concern (SVHC).

ISO 9001: 2015 certification

Since 1990, all LEMO sales subsidiaries and production plants are integrated in a unique global Quality management system. This continuously improving system guarantees a service and quality level that meets the highest customer requirements.

Permanent training programmes ensure that every LEMO employee has the necessary know-how to perform a good job and to be able to apply new working methods. Production tools include automatic control devices and error detection systems enabling zero defect.

REDEL's engineering department, in cooperation with LEMO's R&D Laboratory, have made a large number of improvements to the existing REDEL **F** series connectors, in order to improve electrical performance, as well as other technical aspects. This new connector series is called "**T7** series" and is **TOTALLY COMPATIBLE WITH THE EXISTING REDEL F SERIES.**

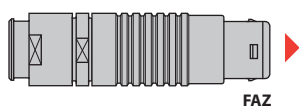
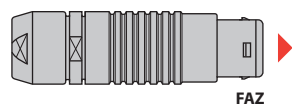
These connectors are used in all **triax HDTV** applications. They guarantee a protection index of **IP68** (standard IEC 60529) and adapt to a larger range of triaxial cables. At the same time, new models have been created to be able to meet our customers' highest expectations. The REDEL company is readily available to design new models which are not shown in this catalogue, in order to meet our customers' current and future needs.

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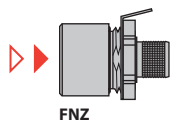
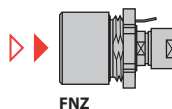
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Models and Interconnections

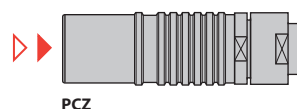
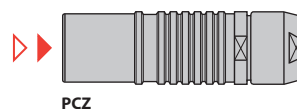
Plugs



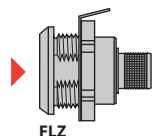
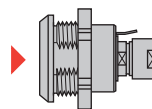
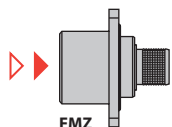
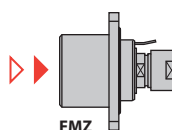
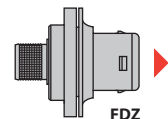
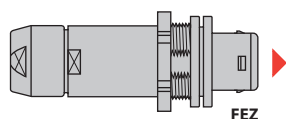
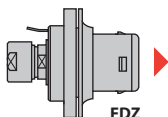
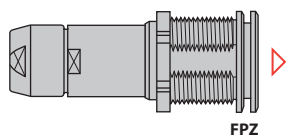
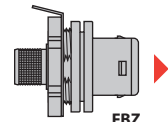
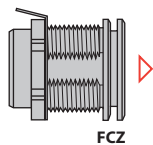
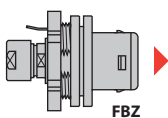
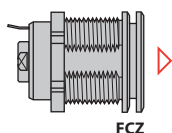
Fixed sockets



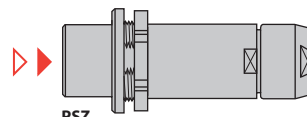
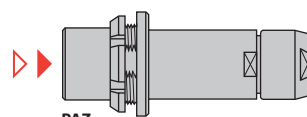
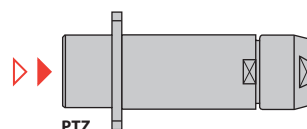
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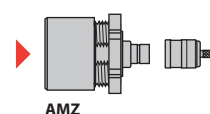
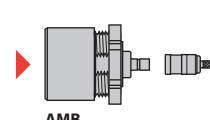
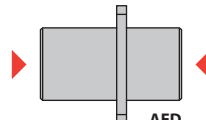
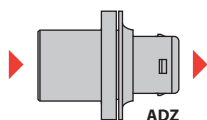
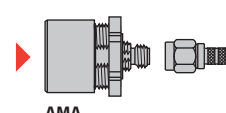
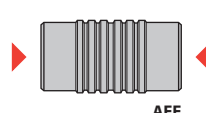
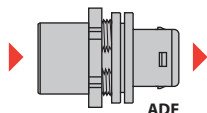
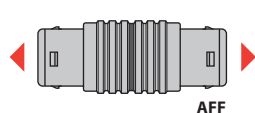
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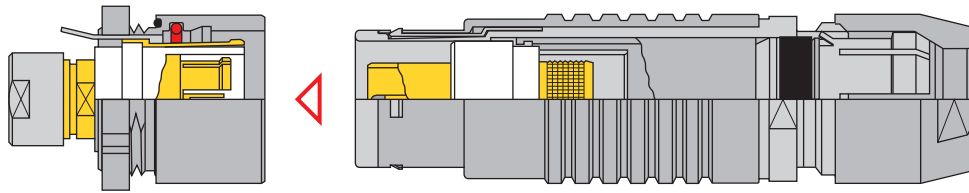


Fixed sockets

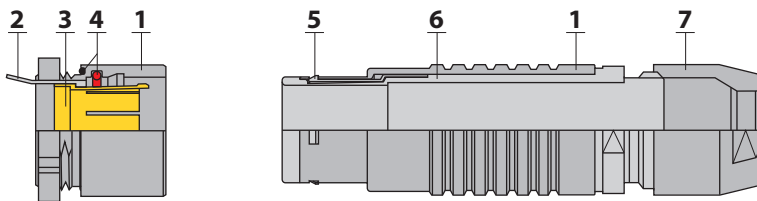


Adaptators



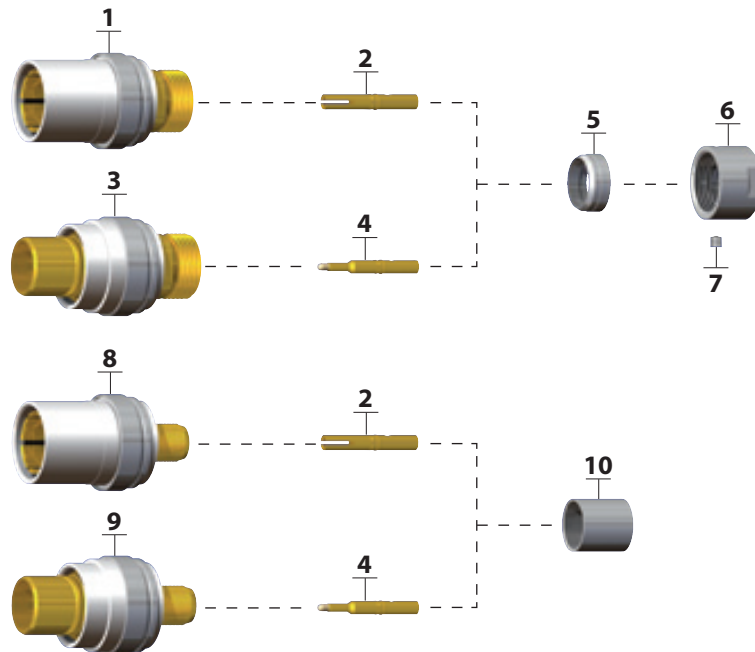


Shell components



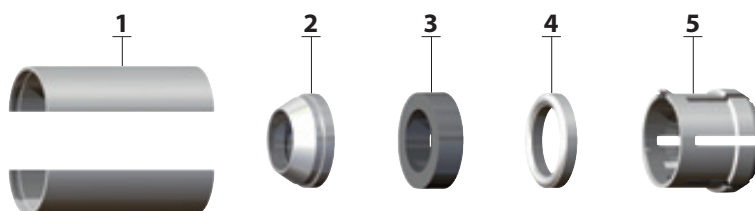
- 1 Outer shell
- 2 Earthing contact
- 3 Earthing crown
- 4 O-rings
- 5 Latch sleeve
- 6 Inner sleeve
- 7 Collet nut

Coax components



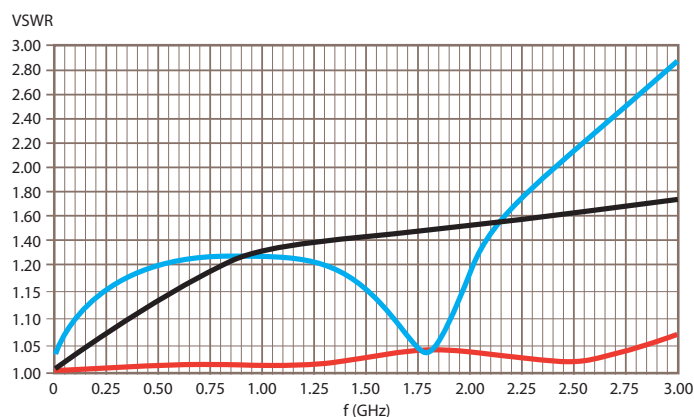
- 1 Female contact carrier (nut tightening)
- 2 Female contact
- 3 Male contact carrier (nut tightening)
- 4 Male contact
- 5 Earthing cone
- 6 Collet nut
- 7 Security screw
- 8 Female contact carrier (crimping)
- 9 Male contact carrier (crimping)
- 10 Crimping tube

Cable clamping system components



- 1 Split insert
- 2 Earthing cone
- 3 Gasket
- 4 Metal washer
- 5 Collet

Technical characteristics



Measured with the following models:

- FAZ.T7.5FT.CC11C + FRZ.T7.5FT.MC11C
- FAZ.T7.5FT.CC11C + FNZ.T7.675.CTL04C
- FAZ.T7.675.CTA04C + FNZ.T7.675.CTL04C

Electrical	Value	Standard	Method
Impedance	75 Ω	—	—
VSWR (0 - 0.4 GHz) / VSWR (0.4 - 3 GHz)	≤ 1.02 / ≤ 1.07	IEC 60169-1-1	—
Test voltage contact/screen	2.9 kVAC	IEC 60512-2	Test 4a
Test voltage screen/screen	1.9 kVAC	IEC 60512-2	Test 4a
Rated current	12 A	IEC 60512-3	Test 5a
Contact resistance of the central contact	< 1.6 m Ω	IEC 60512-2	Test 2a
Contact resistance of the coaxial screen	< 0.4 m Ω	IEC 60512-2	Test 2f
Electrical continuity of the screen	< 1.5 m Ω	IEC 60512-2	Test 2f
Insulation resistance	$> 10^{12}$ Ω	IEC 60512-2	Test 3a

Material and Treatment	Material (Standard)	Surface Treatment
Shell	Brass (UNS C 38500) / Stain. steel 304 L	Chrome or black chrome/ Without treat.
Earthing crown	Bronze (UNS C 54400)	Gold
Other metallic component	Brass (UNS C 38500) / Stain. steel 416	Nickel / Without treatment
O-rings and gaskets	Silicone MQ/MVQ	—
Male contact	Brass (UNS C 34500)	Gold
Female contact	Bronze (UNS C 54400)	Gold
Male coax contact	Brass (UNS C 34500)	Gold
Female coax contact	Bronze (UNS C 54400)	Gold
Inserts, plastic parts	PTFE / PCTFE / PEEK®	—

Mechanical and Climatical	Value	Standard	Method
Endurance	> 5000 cycles	IEC 60512-5	Test 9a
Resistance to vibration	10-20000 Hz, 15 g	IEC 60512-4	Test 6d
Shock resistance	100 g, 6 ms	IEC 60512-4	Test 6c
Protection index (mated)	IP68	IEC 60529	—
Temperature range	-55°C, +250°C	—	—
Humidity	up to 95% at 60°C	—	—
Salt spray corrosion test ¹⁾	> 1000 h	IEC 60512-6	Test 11f

Notes: ¹⁾ For chrome plated product («C» material code).



Recommended triaxial (75Ω) cables



Cables	Core material	Conductor Ø	Dielectric Ø	Cable Ø	Cable group
Bedeia Standard 8 2069	PUR	1.00	4.50	8.5	01
Bedeia Superflex 8 1883	TPE	1.05	4.50	8.5	01
Bedeia Standard 11 2184	PUR	1.40	6.50	11.0	04
Bedeia Superflex 11 1888	TPU/S	1.40	6.10	11.2	03
Bedeia Standard 14 1858	PUR	2.07	9.70	14.4	06
Bedeia Superflex 14 2042	TPE	2.10	9.70	14.4	06
▶ Belden Triax 8 7783A and 7783AF	PVC	1.00	4.50	8.4	01
Belden Triax 11 7784E and 7784AF	PVC	1.40	6.50	11.0	04
Belden Triax 11 7784ECH and 7784ANH	FRNC	1.40	6.50	11.3	04
Belden Triax 11 7784AS and 7784RF	PVC	1.40	6.50	11.3	04
Belden Triax 14 7785E and 7785A	PVC	2.20	9.70	14.5	06
Belden Triax 14 7785ANH	FRNC	2.20	9.70	14.5	06
▶ Conducfil 1282	PVC	1.00	4.50	8.5	01
Conducfil 1283 and 10263	PVC	1.00	4.50	8.5	01
Conducfil 1284	PVC	1.40	6.50	11.0	04
Conducfil 1285 and 10389	PVC	1.40	6.50	11.0	04
▶ Draka Triax 8 CT2765700 and CT2767900	PVC / PUR	1.00	4.50	8.4	01
Draka Triax 8 CT2853203	FRNC	1.00	4.50	8.9	01
Draka Triax 11 CT2766400 and CT2768100	PVC / PUR	1.40	6.50	10.9	04
Draka Triax 11 1028191*	PUR	1.75	7.50	12.1	05
Draka Triax CT2768700	PUR	1.75	7.50	11.9	05
Draka Triax 11/1 CT2767101	PUR	1.40	6.50	12.2	04
▶ Draka Triax 14 CT2766700 and CT2767000	PVC / PUR	2.20	9.70	14.5	06
▶ Fujikura 4.8/1.0 EFTXF	PUR	1.00	4.80	8.6	02
▶ Fujikura 9.6/2.22 EFTXF	PUR	2.20	9.60	14.5	06
▶ Hirakawa Triax 4.8/1.0 - TUFRET 3118-250	TPE	1.00	4.80	8.8	02
▶ Hirakawa Triax 1/2.22 - TUFRET 3118-290	TPE	2.22	9.60	14.5	06
▶ Intercond 8.5 mm RX 75/55	PUR / PVC	1.00	4.70	8.5	02
Intercond 11 mm RX 75/56	PUR / PVC	1.40	6.50	11.0	04
Intercond 14 mm RX 75/57	PUR / PVC	2.15	9.70	14.0	06

Notes: * An integrated connector and cable solution has been developed allowing a 35% improved length (tested at more than 1500 m). Designed for indoor and outdoor operation, this cable provides an optimal transmission quality in a lost effective and light package.



Part numbering system

Plugs and free sockets

F A Z . T 7 . 6 7 5 . C T A 0 1 C Z

Model

Series: **T7**

Type: **675** = triaxial 75Ω

Housing:

C = chrome-plated brass
K = black chrome-plated brass
T = stainless steel

Insulator: **T** = PTFE and PCTFE

Variant:

Z = nut for fitting a bend relief

Collet type:

C = collet clamp
S = crimp

Cable group

Contact:

A = male solder
L = female solder

Example:

FAZ.T7.675.CTA01CZ = plug with cable collet, T7 series, triaxial 75Ω, outer shell in chrome-plated brass, PTFE insulator, male solder contacts, cable group 01, C type collet and nut for fitting a bend relief.

Fixed sockets

F N Z . T 7 . 6 7 5 . C T L 0 1 C

Model

Series: **T7**

Type: **675** = triaxial 75Ω

Housing:

C = chrome-plated brass
K = black chrome-plated brass
T = stainless steel

Insulator: **T** = PTFE and PCTFE

Collet type:

C = collet clamp
S = crimp

Cable group

Contact:

L = female solder

Example:

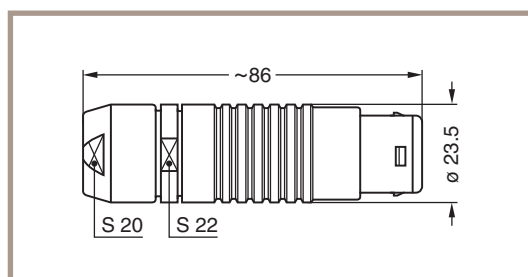
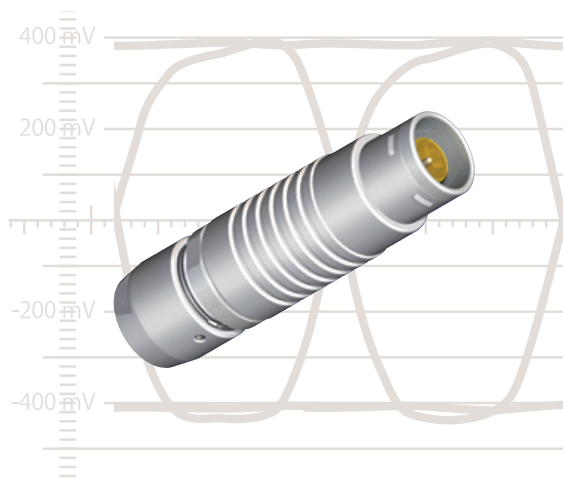
FNZ.T7.675.CTL01C = fixed socket with cable collet, T7 series, triaxial 75Ω, outer shell in chrome-plated brass, PTFE insulator, female solder contacts, cable group 01 and C type collet.



Part number conversion table

Old	New	Old	New	Old	New
FAZ.T7.5FT.CC85C	FAZ.T7.675.CTA01C		FEZ.T7.675.CTA01C		PTZ.T7.675.CTL05C
FAZ.T7.5FT.CC85CZ	FAZ.T7.675.CTA01CZ		FEZ.T7.675.CTA01S		PTZ.T7.675.CTL05S
FAZ.T7.5FT.CC86C	FAZ.T7.675.CTA01C		FEZ.T7.675.CTA02C		PTZ.T7.675.CTL06C
FAZ.T7.5FT.CC86CZ	FAZ.T7.675.CTA01CZ		FEZ.T7.675.CTA03C		PTZ.T7.675.CTL06S
FAZ.T7.5FT.CC90C	FAZ.T7.675.CTA02C		FEZ.T7.675.CTA04C		PAZ.T7.675.CTL01C
FAZ.T7.5FT.CC90CZ	FAZ.T7.675.CTA02CZ		FEZ.T7.675.CTA04S		PAZ.T7.675.CTL01S
	FAZ.T7.675.CTA01S		FEZ.T7.675.CTA05C		PAZ.T7.675.CTL02C
	FAZ.T7.675.CTA01SZ		FEZ.T7.675.CTA05S		PAZ.T7.675.CTL03C
FAZ.T7.5FT.CC11BZ	FAZ.T7.675.CTA04CZ		FEZ.T7.675.CTA06C		PAZ.T7.675.CTL04C
FAZ.T7.5FT.CC11C	FAZ.T7.675.CTA04C		FEZ.T7.675.CTA06S		PAZ.T7.675.CTL04S
FAZ.T7.5FT.CC11CZ	FAZ.T7.675.CTA04CZ	FRZ.T7.5FT.MC85BZ	PCZ.T7.675.CTL01CZ		PAZ.T7.675.CTL05C
FAZ.T7.5FT.CC12C	FAZ.T7.675.CTA05C	FRZ.T7.5FT.MC85CZ	PCZ.T7.675.CTL01CZ		PAZ.T7.675.CTL05S
FAZ.T7.5FT.CC12CZ	FAZ.T7.675.CTA05CZ	FRZ.T7.5FT.MC86BZ	PCZ.T7.675.CTL01CZ		PAZ.T7.675.CTL06C
FAZ.T7.5FT.CC13C	FAZ.T7.675.CTA06C	FRZ.T7.5FT.MC86C	PCZ.T7.675.CTL01C		PAZ.T7.675.CTL06S
	FAZ.T7.675.CTA04CZ	FRZ.T7.5FT.MC86CZ	PCZ.T7.675.CTL01CZ	FNZ.T7.5FT.M39C	FNZ.T7.675.CTL01C
	FAZ.T7.675.CTA04S	FRZ.T7.5FT.MC90C	PCZ.T7.675.CTL02C	FNZ.T7.5FT.M49S	FNZ.T7.675.CTL01S
	FAZ.T7.675.CTA04SZ	FRZ.T7.5FT.MC90CZ	PCZ.T7.675.CTL02CZ		FNZ.T7.675.CTL02C
FAZ.T7.5FT.CC14C	FAZ.T7.675.CTA06C		PCZ.T7.675.CTL01S		FNZ.T7.675.CTL03C
FAZ.T7.5FT.CC14CZ	FAZ.T7.675.CTA06CZ		PCZ.T7.675.CTL01SZ	FNZ.T7.5FT.M67C	FNZ.T7.675.CTL04C
	FAZ.T7.675.CTA05S	FRZ.T7.5FT.MC11BZ	PCZ.T7.675.CTL04CZ	FNZ.T7.5FT.M67S	FNZ.T7.675.CTL04S
	FAZ.T7.675.CTA05SZ	FRZ.T7.5FT.MC11C	PCZ.T7.675.CTL04C		FNZ.T7.675.CTL05C
FAZ.T7.5FT.CC15C	FAZ.T7.675.CTA06C	FRZ.T7.5FT.MC11CZ	PCZ.T7.675.CTL04CZ	FNZ.T7.5FT.M84S	FNZ.T7.675.CTL05S
FAZ.T7.5FT.CC15CZ	FAZ.T7.675.CTA06CZ	FRZ.T7.5FT.MC12C	PCZ.T7.675.CTL05C		FNZ.T7.675.CTL06C
	FAZ.T7.675.CTA06S	FRZ.T7.5FT.MC12CZ	PCZ.T7.675.CTL05CZ		FNZ.T7.675.CTL06S
	FAZ.T7.675.CTA06SZ	FRZ.T7.5FT.MC13C	PCZ.T7.675.CTL06C		FMZ.T7.675.CTL01C
	FBZ.T7.675.CTA01C		PCZ.T7.675.CTL04CZ		FMZ.T7.675.CTL01S
	FBZ.T7.675.CTA01S		PCZ.T7.675.CTL04S		FMZ.T7.675.CTL02C
	FBZ.T7.675.CTA02C		PCZ.T7.675.CTL04SZ		FMZ.T7.675.CTL03C
	FBZ.T7.675.CTA03C	FRZ.T7.5FT.MC14C	PCZ.T7.675.CTL06C		FMZ.T7.675.CTL04C
	FBZ.T7.675.CTA04C	FRZ.T7.5FT.MC14CZ	PCZ.T7.675.CTL06CZ		FMZ.T7.675.CTL04S
	FBZ.T7.675.CTA04S		PCZ.T7.675.CTL05S		FMZ.T7.675.CTL05C
	FBZ.T7.675.CTA05C		PCZ.T7.675.CTL05SZ		FMZ.T7.675.CTL05S
	FBZ.T7.675.CTA05S	FRZ.T7.5FT.MC15C	PCZ.T7.675.CTL06C		FMZ.T7.675.CTL06C
	FBZ.T7.675.CTA06C	FRZ.T7.5FT.MC15CZ	PCZ.T7.675.CTL06CZ		FMZ.T7.675.CTL06S
	FBZ.T7.675.CTA06S		PCZ.T7.675.CTL06S		FLZ.T7.675.CTL01C
	FDZ.T7.675.CTA01C		PCZ.T7.675.CTL06SZ		FLZ.T7.675.CTL01S
	FDZ.T7.675.CTA01S		PSZ.T7.675.CTL01C		FLZ.T7.675.CTL02C
	FDZ.T7.675.CTA02C		PSZ.T7.675.CTL01S		FLZ.T7.675.CTL03C
	FDZ.T7.675.CTA03C		PSZ.T7.675.CTL02C		FLZ.T7.675.CTL04C
	FDZ.T7.675.CTA04C		PSZ.T7.675.CTL03C		FLZ.T7.675.CTL04S
	FDZ.T7.675.CTA04S		PSZ.T7.675.CTL04C		FLZ.T7.675.CTL05C
	FDZ.T7.675.CTA05C		PSZ.T7.675.CTL04S		FLZ.T7.675.CTL05S
	FDZ.T7.675.CTA05S		PSZ.T7.675.CTL05C		FLZ.T7.675.CTL06C
	FDZ.T7.675.CTA06C		PSZ.T7.675.CTL05S		FLZ.T7.675.CTL06S
	FDZ.T7.675.CTA06S		PSZ.T7.675.CTL06C		AFF.T7.675.CTA
	FCZ.T7.5FT.CC85C		PSZ.T7.675.CTL06S		ADZ.T7.675.CTA
	FCZ.T7.5FT.CC86C		PTZ.T7.675.CTL01C		ADF.T7.675.CTA
	FCZ.T7.5FT.CC90C		PTZ.T7.675.CTL01S	FVZ.T7.5FT.S	AEE.T7.675.CTL
	FCZ.T7.5FT.CC90CZ		PTZ.T7.675.CTL02C		AED.T7.675.CTA
	FCZ.T7.5FT.CC11C		PTZ.T7.675.CTL03C		AMA.T7.675.CTL
	FCZ.T7.5FT.CC12C		PTZ.T7.675.CTL04C		AMB.T7.675.CTL
	FCZ.T7.5FT.CC15C		PTZ.T7.675.CTL04S		AMZ.T7.675.CTL

FAZ Plug



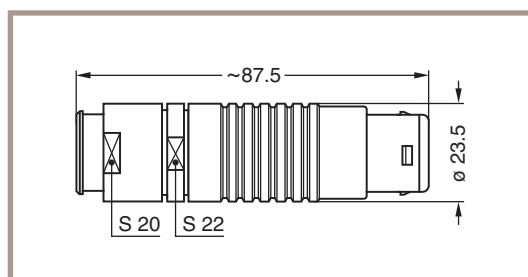
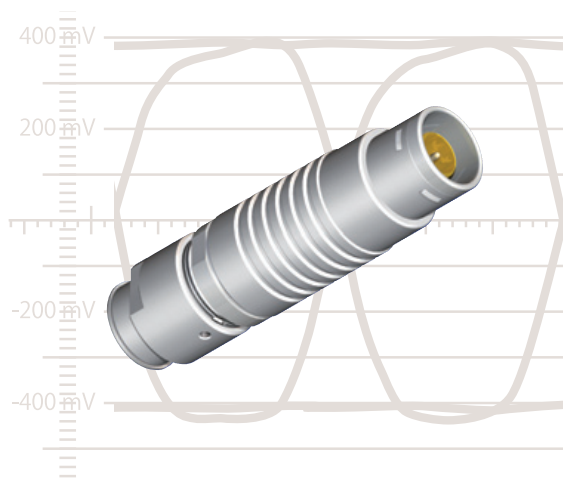
Cable collet termination

Part number	Cable group
FAZ.T7.675.CTA01C	01
FAZ.T7.675.CTA02C	02
FAZ.T7.675.CTA03C	03
FAZ.T7.675.CTA04C	04
FAZ.T7.675.CTA05C	05
FAZ.T7.675.CTA06C	06

Crimp termination

Part number	Cable group
FAZ.T7.675.CTA01S	01
FAZ.T7.675.CTA04S	04
FAZ.T7.675.CTA05S	05
FAZ.T7.675.CTA06S	06

FAZ Plug, nut for fitting a bend relief



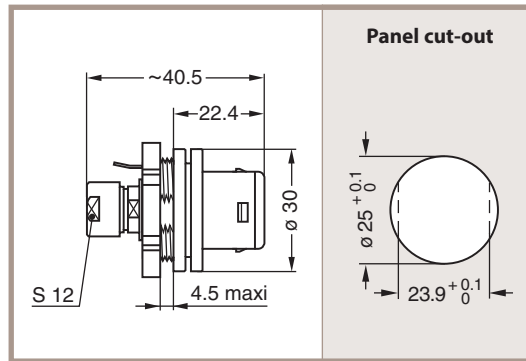
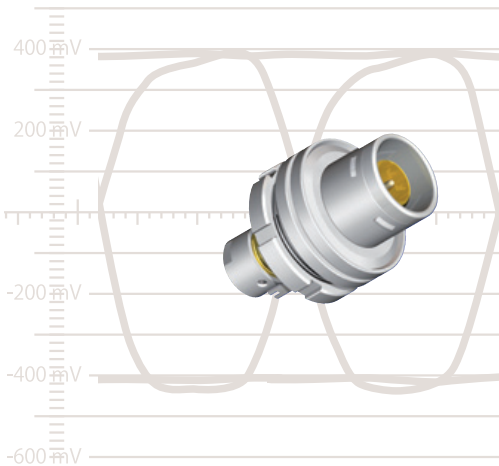
Cable collet termination

Part number	Cable group
FAZ.T7.675.CTA01CZ	01
FAZ.T7.675.CTA02CZ	02
FAZ.T7.675.CTA03CZ	03
FAZ.T7.675.CTA04CZ	04
FAZ.T7.675.CTA05CZ	05
FAZ.T7.675.CTA06CZ	06

Crimp termination

Part number	Cable group
FAZ.T7.675.CTA01SZ	01
FAZ.T7.675.CTA04SZ	04
FAZ.T7.675.CTA05SZ	05
FAZ.T7.675.CTA06SZ	06

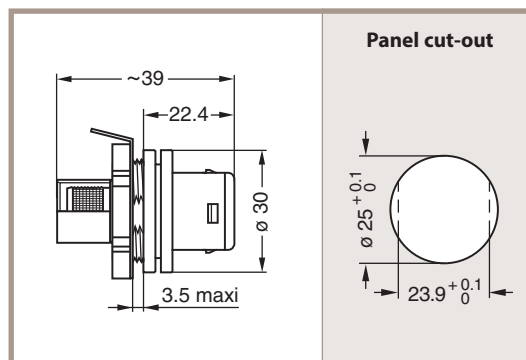
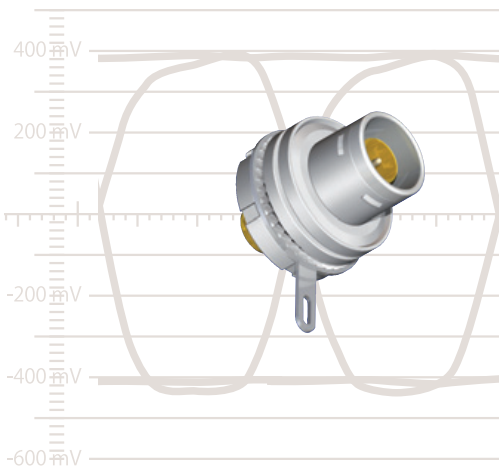
FBZ Fixed plug, nut fixing



Cable collet termination

Part number	Cable group
FBZ.T7.675.CTA01C	01
FBZ.T7.675.CTA02C	02
FBZ.T7.675.CTA03C	03
FBZ.T7.675.CTA04C	04
FBZ.T7.675.CTA05C	05
FBZ.T7.675.CTA06C	06

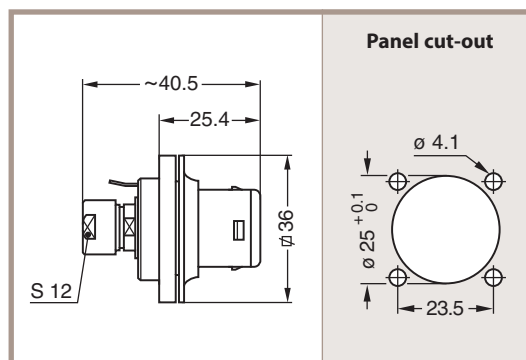
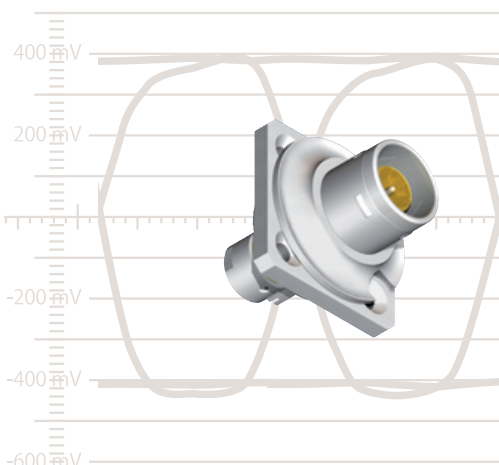
FBZ Fixed plug, nut fixing



Crimp termination

Part number	Cable group
FBZ.T7.675.CTA01S	01
FBZ.T7.675.CTA04S	04
FBZ.T7.675.CTA05S	05
FBZ.T7.675.CTA06S	06

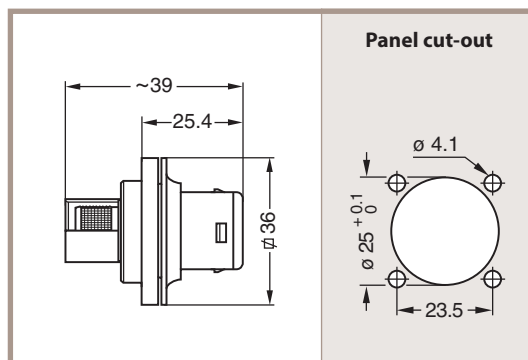
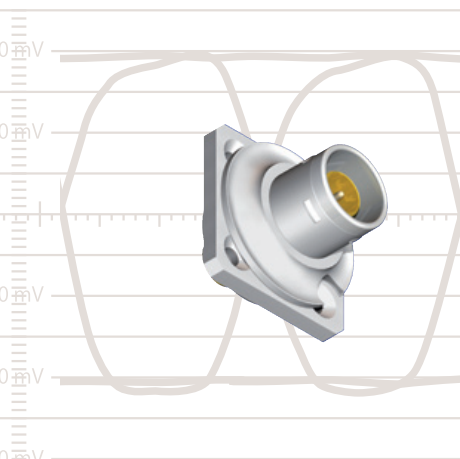
FDZ Fixed plug, screw fixing



Cable collet termination

Part number	Cable group
FDZ.T7.675.CTA01C	01
FDZ.T7.675.CTA02C	02
FDZ.T7.675.CTA03C	03
FDZ.T7.675.CTA04C	04
FDZ.T7.675.CTA05C	05
FDZ.T7.675.CTA06C	06

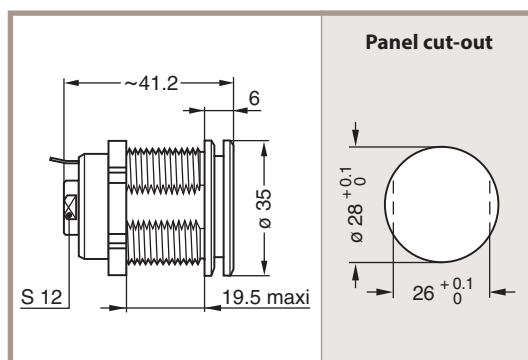
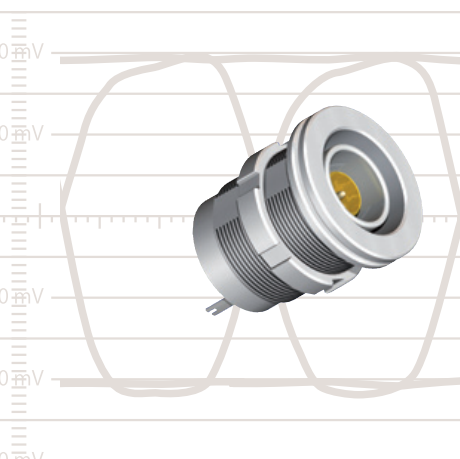
FDZ Fixed plug, screw fixing



Crimp termination

Part number	Cable group
FDZ.T7.675.CTA01S	01
FDZ.T7.675.CTA04S	04
FDZ.T7.675.CTA05S	05
FDZ.T7.675.CTA06S	06

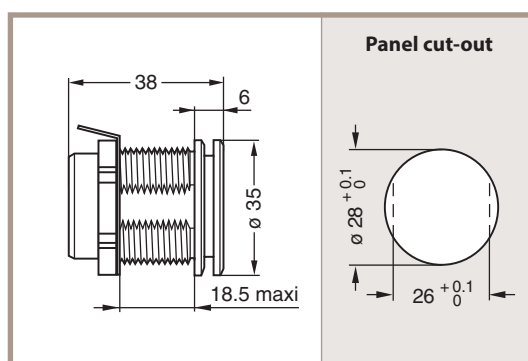
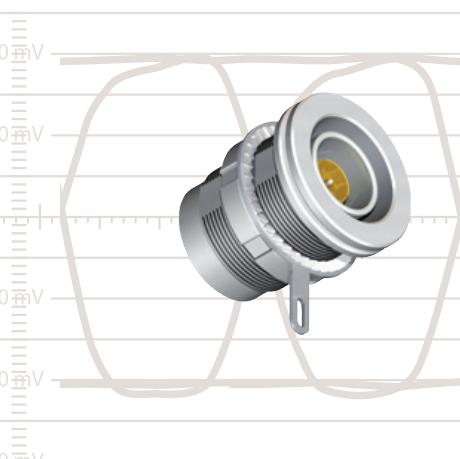
FCZ Fixed plug, nut fixing



Cable collet termination

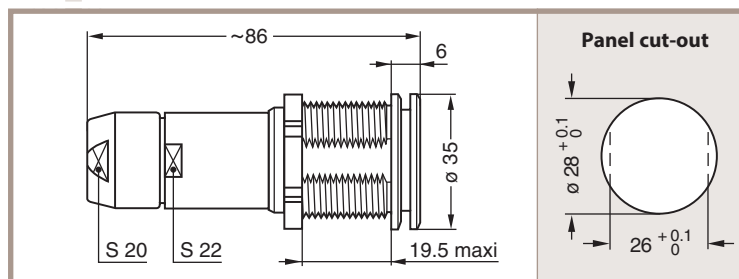
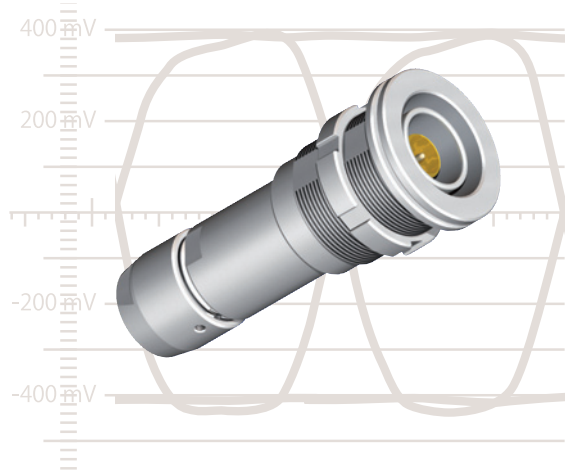
Part number	Cable group
FCZ.T7.675.CTA01C	01
FCZ.T7.675.CTA02C	02
FCZ.T7.675.CTA03C	03
FCZ.T7.675.CTA04C	04
FCZ.T7.675.CTA05C	05
FCZ.T7.675.CTA06C	06

FCZ Fixed plug, nut fixing



Crimp termination

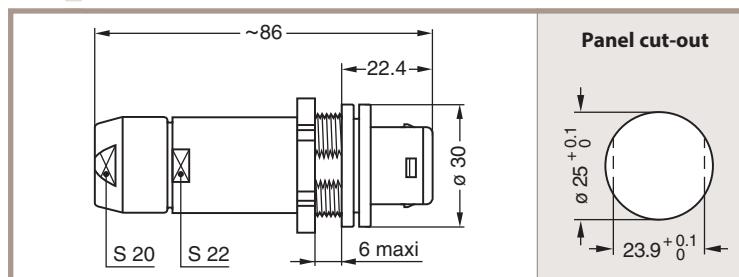
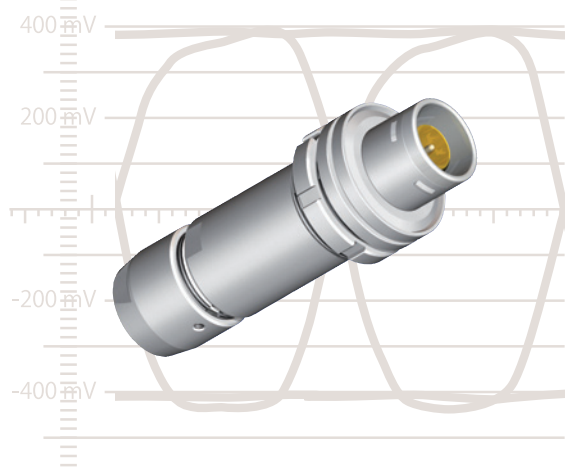
Part number	Cable group
FCZ.T7.675.CTA01S	01
FCZ.T7.675.CTA04S	04
FCZ.T7.675.CTA05S	05
FCZ.T7.675.CTA06S	06

**FPZ Fixed plug, nut fixing****Cable collet termination**

Part number	Cable group
FPZ.T7.675.CTA01C	01
FPZ.T7.675.CTA02C	02
FPZ.T7.675.CTA03C	03
FPZ.T7.675.CTA04C	04
FPZ.T7.675.CTA05C	05
FPZ.T7.675.CTA06C	06

Crimp termination

Part number	Cable group
FPZ.T7.675.CTA01S	01
FPZ.T7.675.CTA04S	04
FPZ.T7.675.CTA05S	05
FPZ.T7.675.CTA06S	06

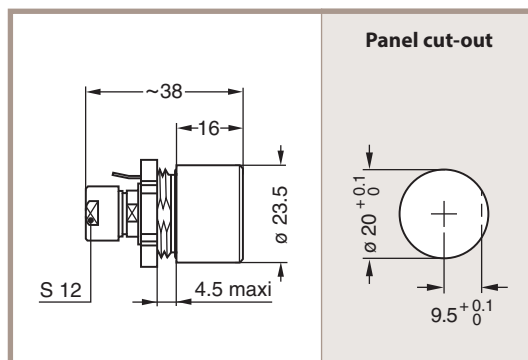
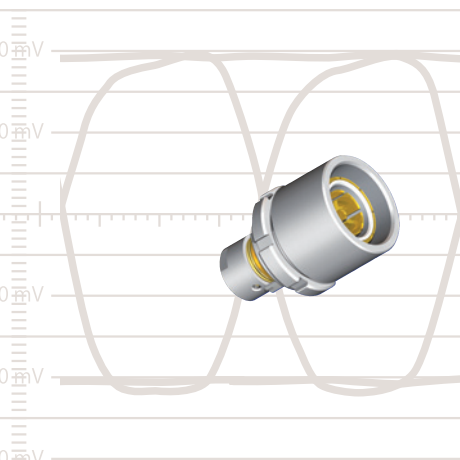
FEZ Fixed plug, nut fixing**Cable collet termination**

Part number	Cable group
FEZ.T7.675.CTA01C	01
FEZ.T7.675.CTA02C	02
FEZ.T7.675.CTA03C	03
FEZ.T7.675.CTA04C	04
FEZ.T7.675.CTA05C	05
FEZ.T7.675.CTA06C	06

Crimp termination

Part number	Cable group
FEZ.T7.675.CTA01S	01
FEZ.T7.675.CTA04S	04
FEZ.T7.675.CTA05S	05
FEZ.T7.675.CTA06S	06

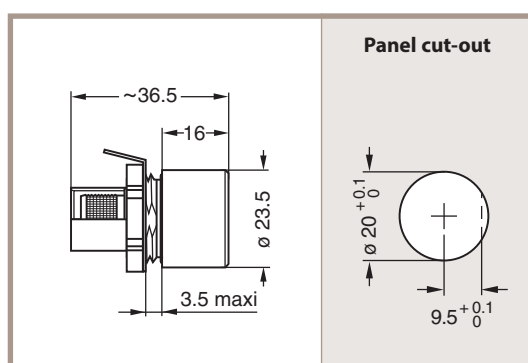
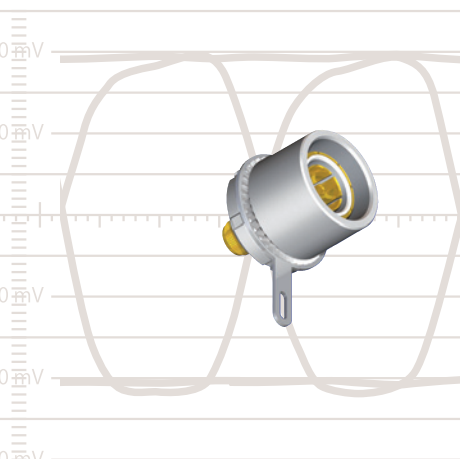
FNZ Fixed socket, nut fixing



Cable collet termination

Part number	Cable group
FNZ.T7.675.CTL01C	01
FNZ.T7.675.CTL02C	02
FNZ.T7.675.CTL03C	03
FNZ.T7.675.CTL04C	04
FNZ.T7.675.CTL05C	05
FNZ.T7.675.CTL06C	06

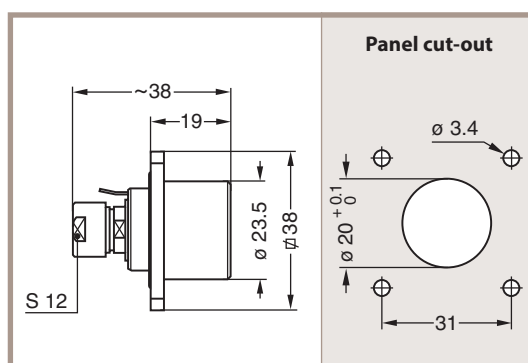
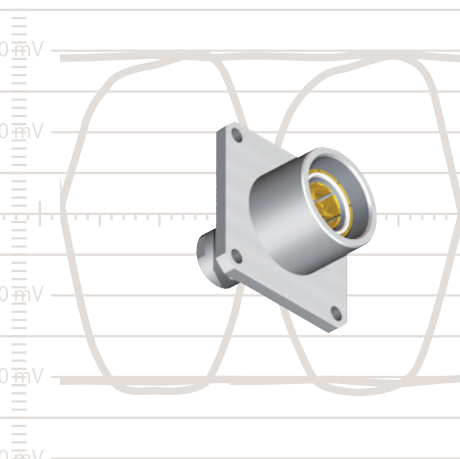
FNZ Fixed socket, nut fixing



Crimp termination

Part number	Cable group
FNZ.T7.675.CTL01S	01
FNZ.T7.675.CTL04S	04
FNZ.T7.675.CTL05S	05
FNZ.T7.675.CTL06S	06

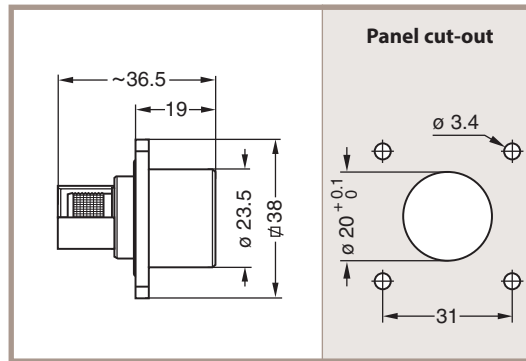
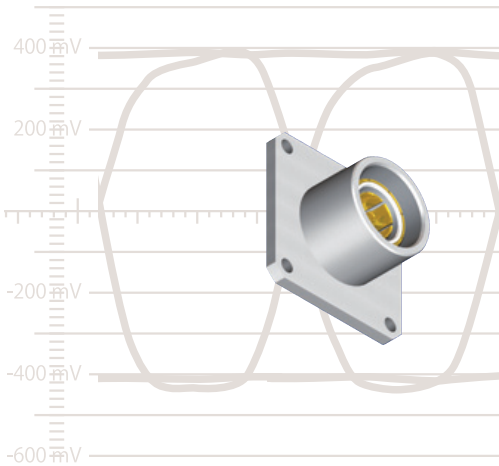
FMZ Fixed socket, screw fixing, square flange



Cable collet termination

Part number	Cable group
FMZ.T7.675.CTL01C	01
FMZ.T7.675.CTL02C	02
FMZ.T7.675.CTL03C	03
FMZ.T7.675.CTL04C	04
FMZ.T7.675.CTL05C	05
FMZ.T7.675.CTL06C	06

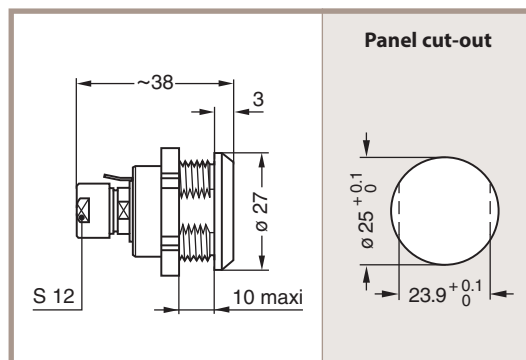
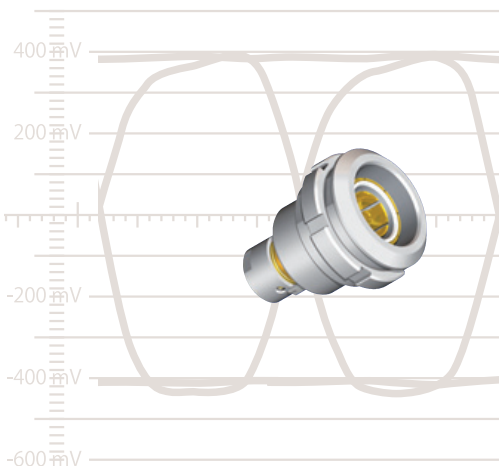
FMZ Fixed socket, screw fixing, square flange



Crimp termination

Part number	Cable group
FMZ.T7.675.CTL01S	01
FMZ.T7.675.CTL04S	04
FMZ.T7.675.CTL05S	05
FMZ.T7.675.CTL06S	06

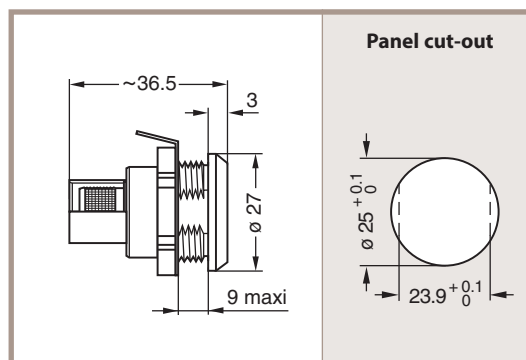
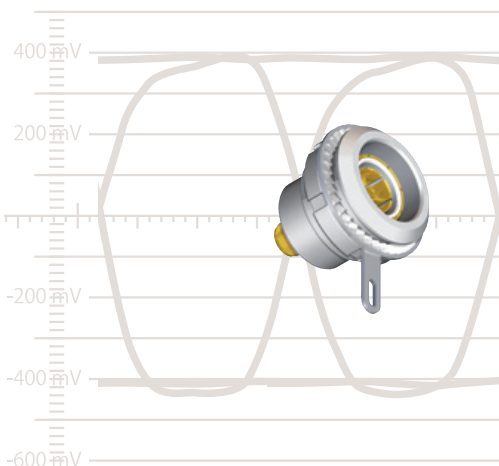
FLZ Fixed socket, nut fixing



Cable collet termination

Part number	Cable group
FLZ.T7.675.CTL01C	01
FLZ.T7.675.CTL02C	02
FLZ.T7.675.CTL03C	03
FLZ.T7.675.CTL04C	04
FLZ.T7.675.CTL05C	05
FLZ.T7.675.CTL06C	06

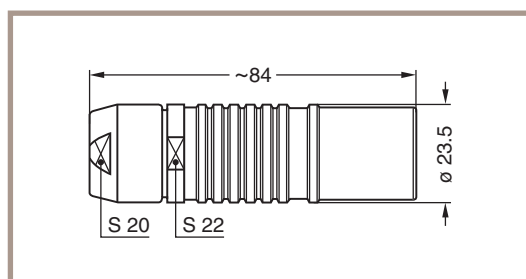
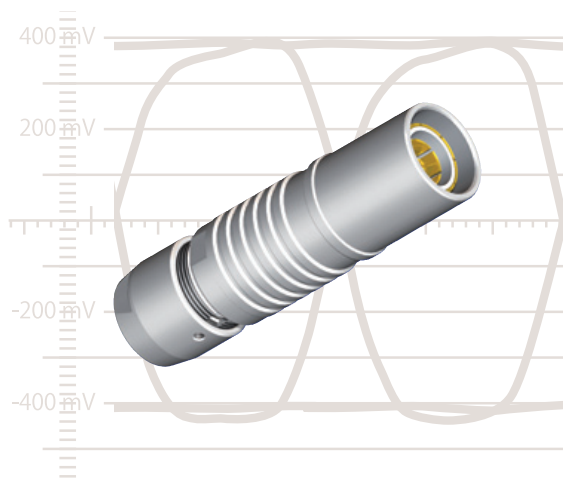
FLZ Fixed socket, nut fixing



Crimp termination

Part number	Cable group
FLZ.T7.675.CTL01S	01
FLZ.T7.675.CTL04S	04
FLZ.T7.675.CTL05S	05
FLZ.T7.675.CTL06S	06

PCZ Free socket



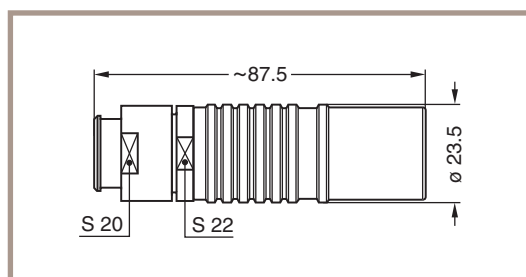
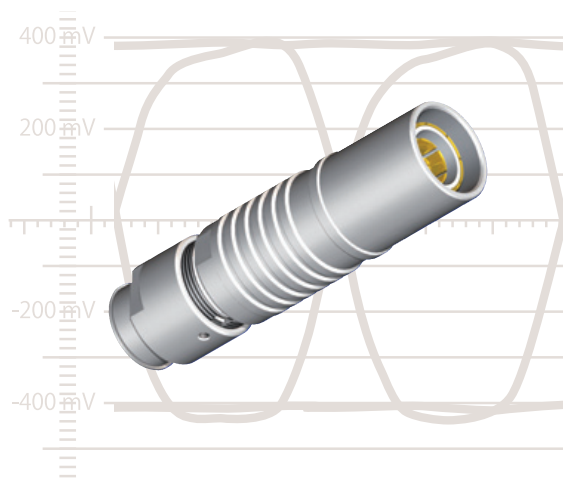
Cable collet termination

Part number	Cable group
PCZ.T7.675.CTL01C	01
PCZ.T7.675.CTL02C	02
PCZ.T7.675.CTL03C	03
PCZ.T7.675.CTL04C	04
PCZ.T7.675.CTL05C	05
PCZ.T7.675.CTL06C	06

Crimp termination

Part number	Cable group
PCZ.T7.675.CTL01S	01
PCZ.T7.675.CTL04S	04
PCZ.T7.675.CTL05S	05
PCZ.T7.675.CTL06S	06

PCZ Free socket, nut for fitting a bend relief

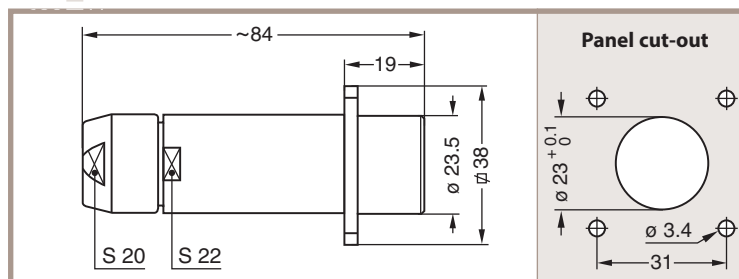
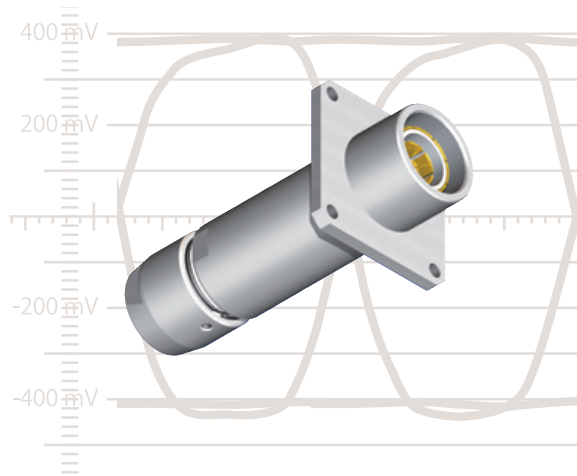


Cable collet termination

Part number	Cable group
PCZ.T7.675.CTL01CZ	01
PCZ.T7.675.CTL02CZ	02
PCZ.T7.675.CTL03CZ	03
PCZ.T7.675.CTL04CZ	04
PCZ.T7.675.CTL05CZ	05
PCZ.T7.675.CTL06CZ	06

Crimp termination

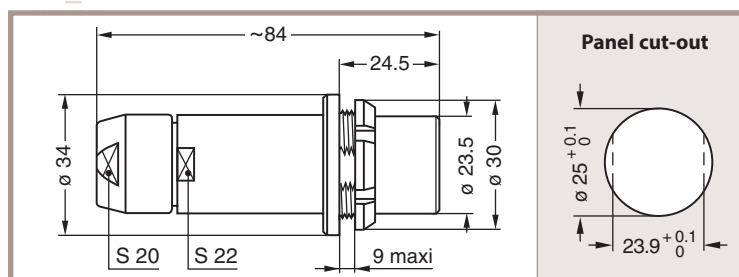
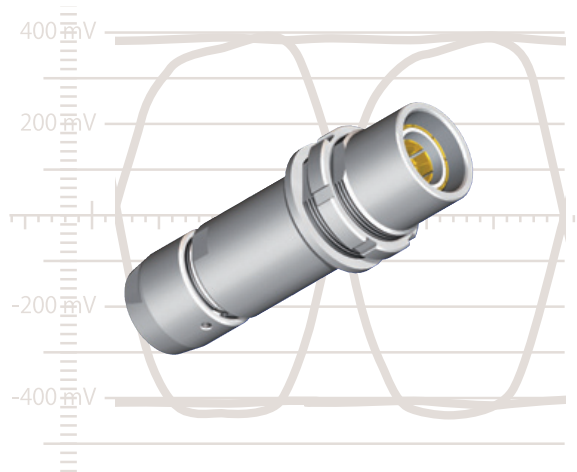
Part number	Cable group
PCZ.T7.675.CTL01SZ	01
PCZ.T7.675.CTL04SZ	04
PCZ.T7.675.CTL05SZ	05
PCZ.T7.675.CTL06SZ	06

**PTZ Free socket, screw fixing, square flange****Cable collet termination**

Part number	Cable group
PTZ.T7.675.CTL01C	01
PTZ.T7.675.CTL02C	02
PTZ.T7.675.CTL03C	03
PTZ.T7.675.CTL04C	04
PTZ.T7.675.CTL05C	05
PTZ.T7.675.CTL06C	06

Crimp termination

Part number	Cable group
PTZ.T7.675.CTL01S	01
PTZ.T7.675.CTL04S	04
PTZ.T7.675.CTL05S	05
PTZ.T7.675.CTL06S	06

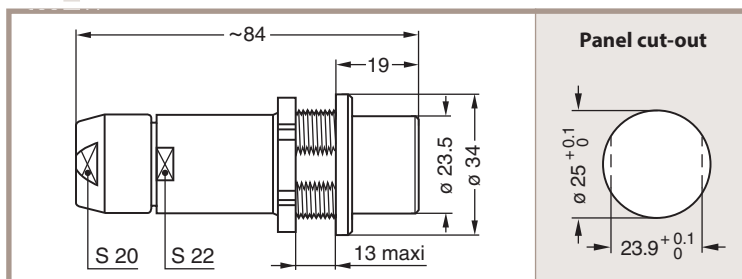
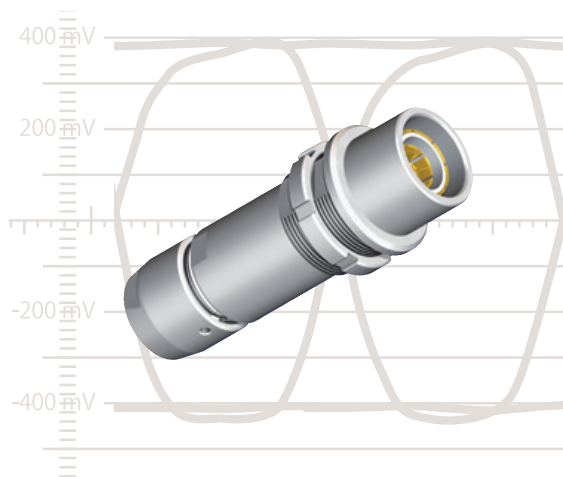
PAZ Free socket, nut fixing**Cable collet termination**

Part number	Cable group
PAZ.T7.675.CTL01C	01
PAZ.T7.675.CTL02C	02
PAZ.T7.675.CTL03C	03
PAZ.T7.675.CTL04C	04
PAZ.T7.675.CTL05C	05
PAZ.T7.675.CTL06C	06

Crimp termination

Part number	Cable group
PAZ.T7.675.CTL01S	01
PAZ.T7.675.CTL04S	04
PAZ.T7.675.CTL05S	05
PAZ.T7.675.CTL06S	06

PSZ Free socket, nut fixing



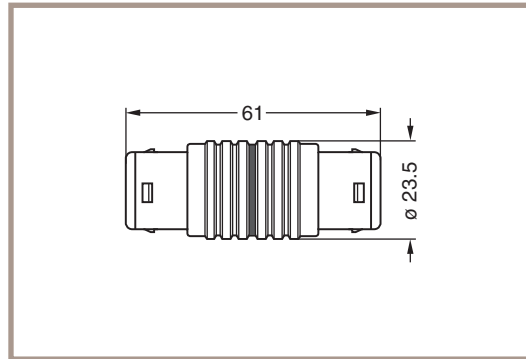
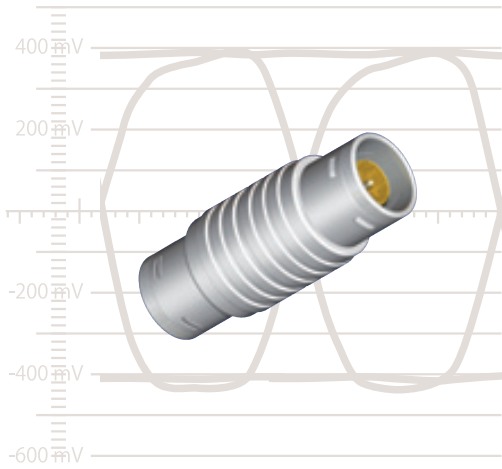
Cable collet termination

Part number	Cable group
PSZ.T7.675.CTL01C	01
PSZ.T7.675.CTL02C	02
PSZ.T7.675.CTL03C	03
PSZ.T7.675.CTL04C	04
PSZ.T7.675.CTL05C	05
PSZ.T7.675.CTL06C	06

Crimp termination

Part number	Cable group
PSZ.T7.675.CTL01S	01
PSZ.T7.675.CTL04S	04
PSZ.T7.675.CTL05S	05
PSZ.T7.675.CTL06S	06

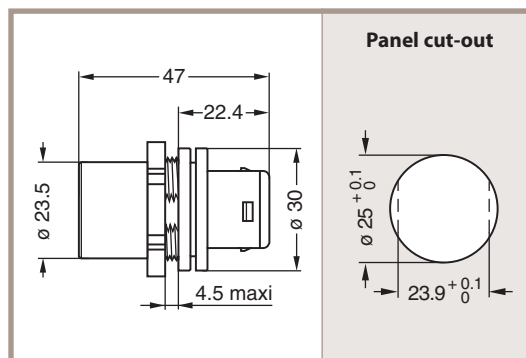
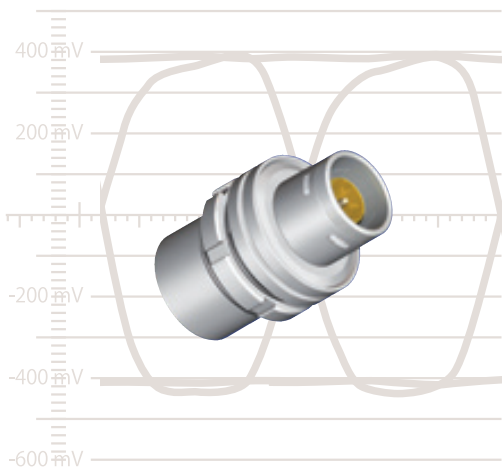
AFF Adaptor plug-plug



Part number

AFF.T7.675.CTA

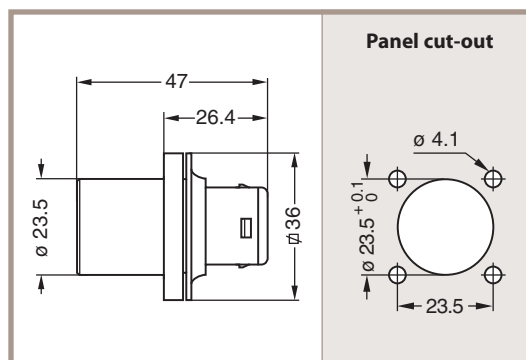
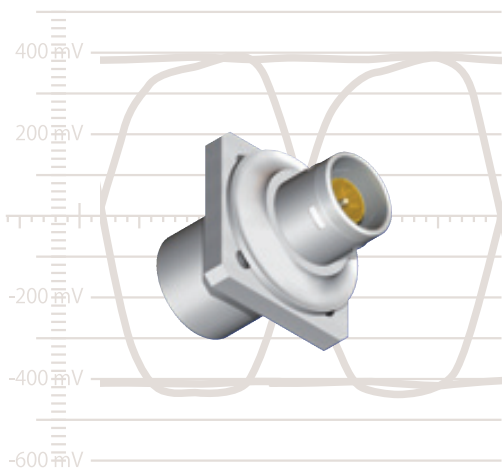
ADF Adaptor



Part number

ADF.T7.675.CTA

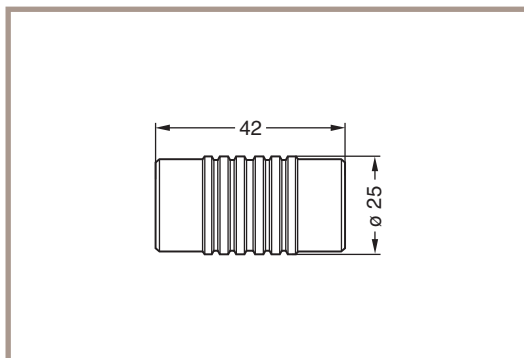
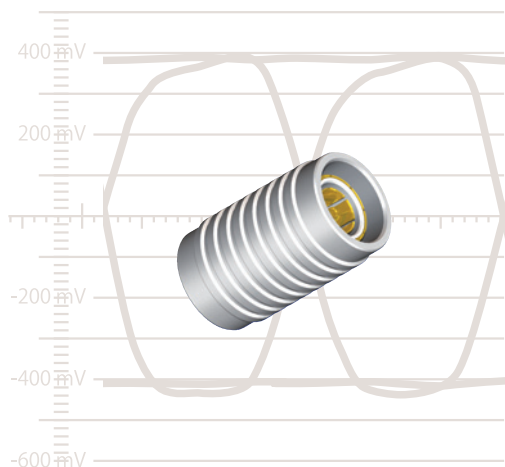
ADZ Adaptor on FDZ model



Part number

ADZ.T7.675.CTA

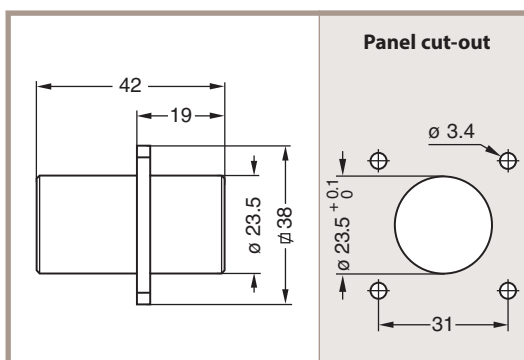
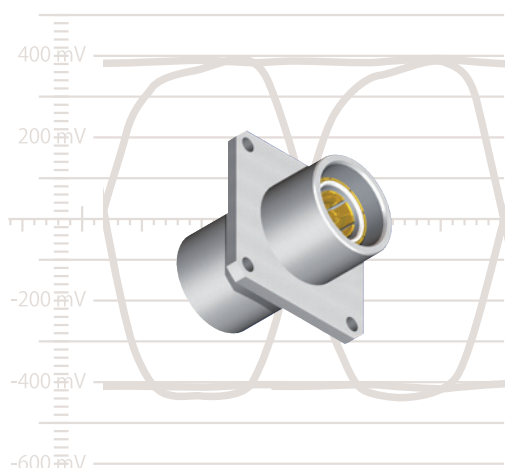
AEE Adaptor socket-socket



Part number

AEE.T7.675.CTL

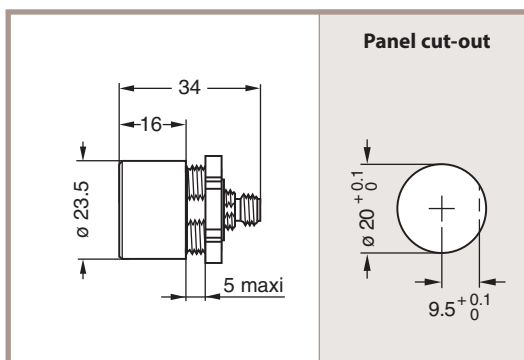
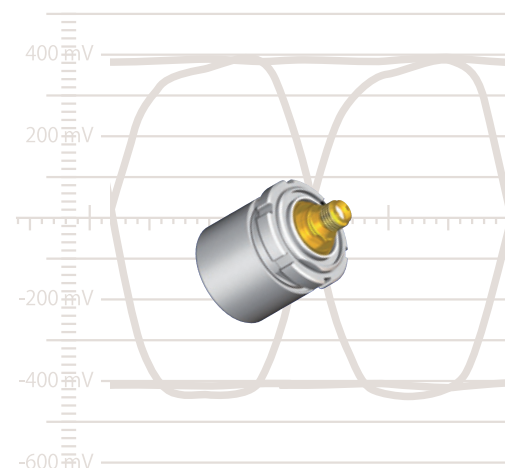
AED Adaptor socket-socket



Part number

AED.T7.675.CTL

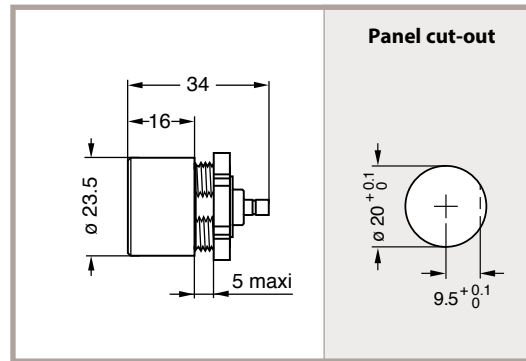
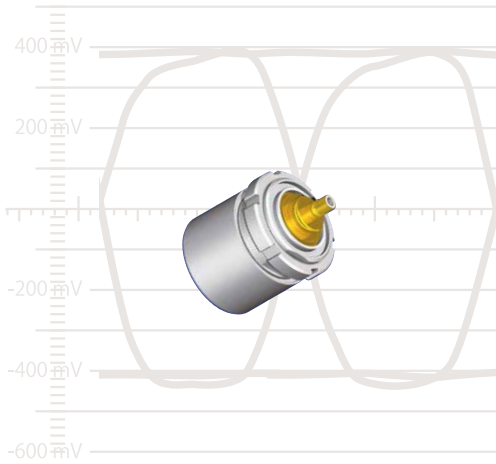
AMA Adaptor on SMA model



Part number

AMA.T7.675.CTL

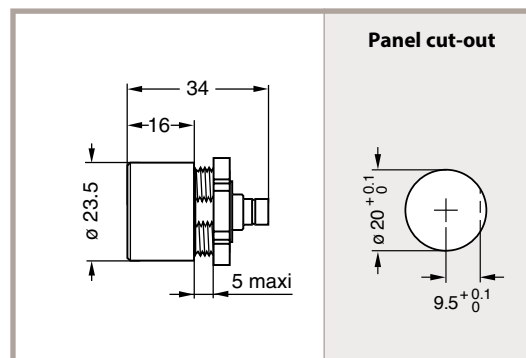
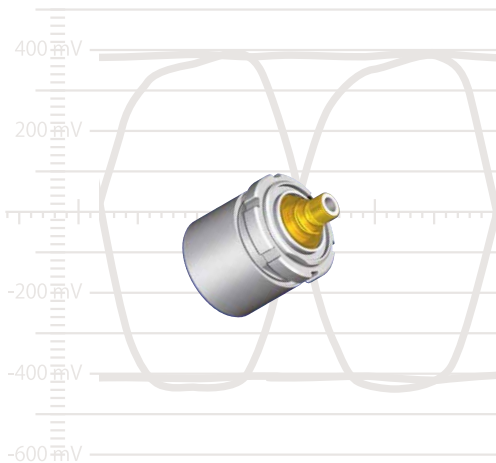
AMB Adaptor on SMB model



Part number

AMB.T7.675.CTL

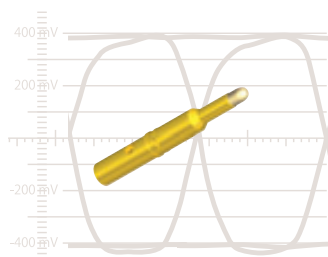
AMZ Adaptor on SMZ model



Part number

AMZ.T7.675.CTL

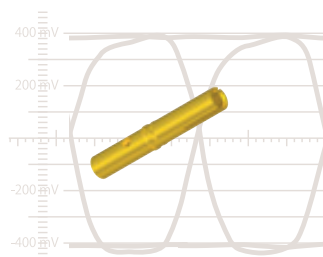
FAZ Male contact



Note:
The pin of the contact is made of plastic, in order to protect it in case of accidental contact with a foreign body.

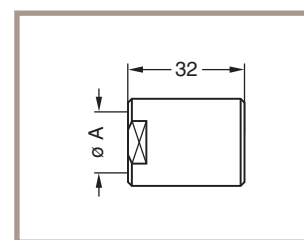
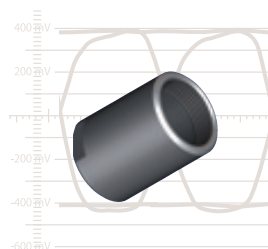
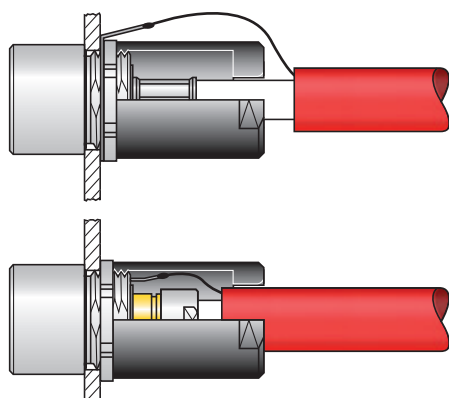
Part number	Cable group
FAZ.T7.525.BLL	01-02
FAZ.T7.526.BLL	03-04-05
FAZ.T7.527.BLL	06

FNZ Female contact



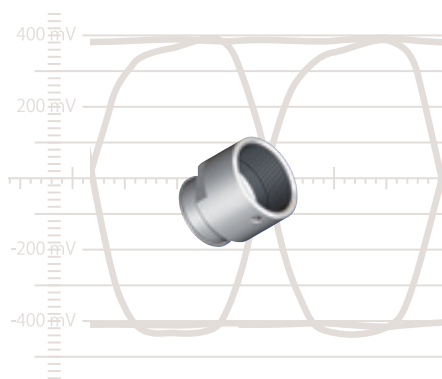
Part number	Cable group
FNZ.T7.625.BC	01-02
FNZ.T7.626.BC	03-04-05
FNZ.T7.627.BC	06

FEZ Collet for cable retention



Part number	Ø A (mm)
FEZ.T7.130.BN	6.6
FEZ.T7.131.BN	8.8
FEZ.T7.132.BN	12.2
FEZ.T7.133.BN	14.6

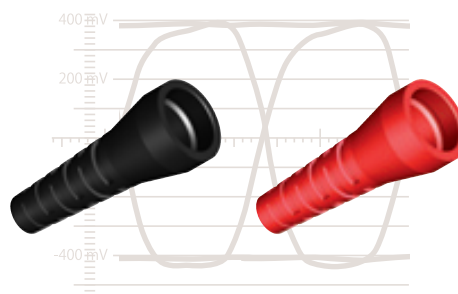
FFZ Nut for fitting a bend relief



Part number

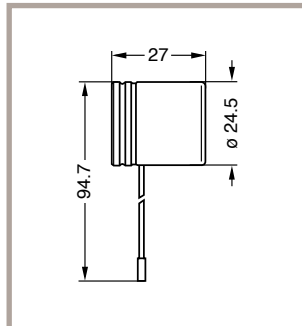
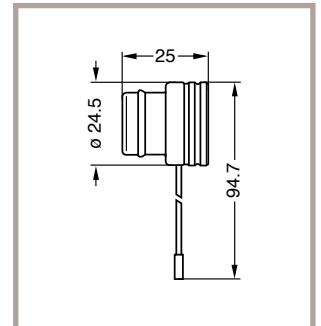
FFZ.T7.130.LC

GMA Bend relief



Note:
To obtain a red or black bend relief, change the position «●» of the part number to the corresponding letter «R» or «N».

Part number	Cable group
GMA.T7.080.D●	01-02
GMA.T7.011.D●	03-04-05
GMA.T7.013.D●	06

BFA Cap for plug

Part number
BFA.T7.100.715EN
BEA Cap for socket

Part number
BEA.T7.100.715EN

GEB Notched nut



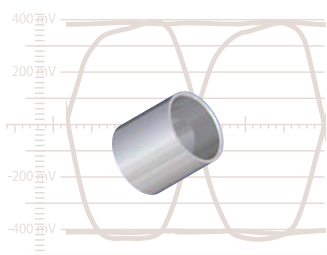
Part number	For models
GEB.T7.240.LN	FNZ, AMA, AMB, AMZ
GEB.T7.242.LN	FBZ, FEZ, FLZ, ADF
GEB.T7.243.LN	FCZ, FPZ
GEG.T7.240.LC	PAZ, PSZ

GCA Earthing washer



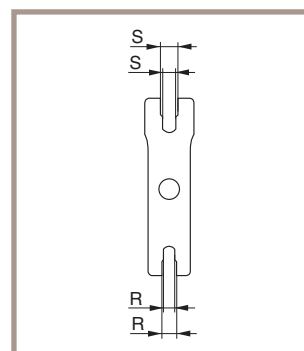
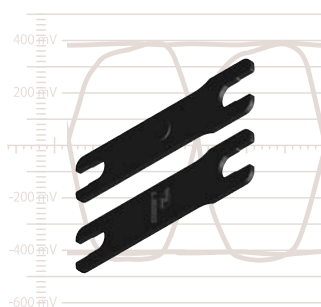
Part number	For models
GCA.2E.255.LT	FNZ
GCA.4S.255.LT	FBZ, FLZ
GCA.4E.255.LT	FCZ

FAZ Crimping tube



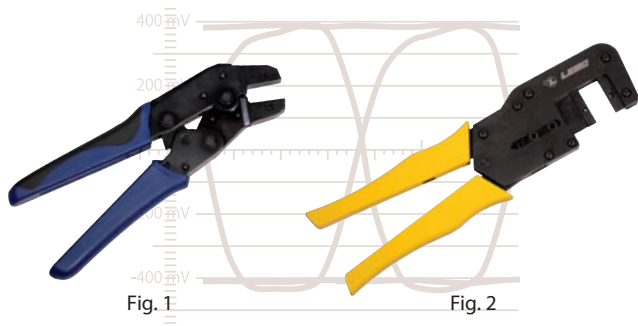
Part number	Cable group
FAZ.T7.163.LA	01
FAZ.T7.166.LA	04
FAZ.T7.167.LA	05
FAZ.T7.168.LA	06

DCP Spanners



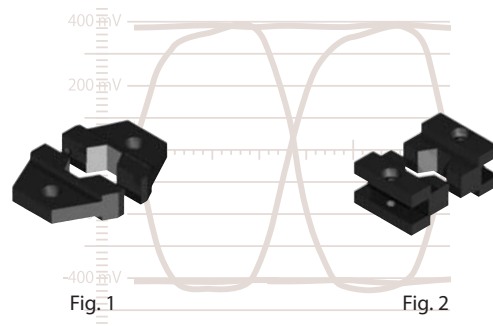
Part number	R	S
DCP.T7.110.TN	11/10	13/12
DCP.T7.111.TN	14/13	22/20

DPE-DPD Crimping tools pliers



Part number	Cable group	Fig.
DPE.99.000.00	01-04	1
DPD.99.000.00	05-06	2

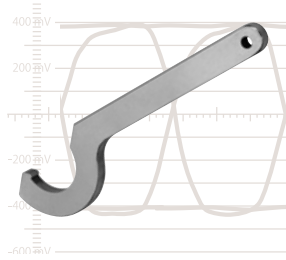
DPE-DPU Dies



Part number	Cable group	Fig.
DPN.91.009.0K (x2)	01-04	1
DPU.91.001.2K (x2)	05-06	2

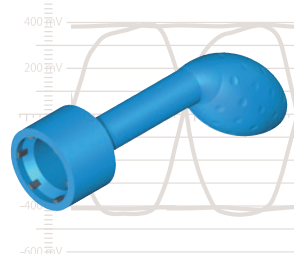
Kit Pliers + Dies: DPE.99.009.0K (**01-04**) – DPD.99.001.2K (**05-06**)

FCP Spanner for notched nut



Part number	For models
FCP.025.AZ	FNZ, AMA, AMB, AMZ
FCP.030.AZ	FBZ, FEZ, FLZ, PAZ, PSZ, ADF
FCP.033.AZ	FCZ, FPZ

DCH Spanner for conical and notched nut



Spanner part number | **For model**

DCH.91.301.PA | PAZ

Nut part number | **For model**

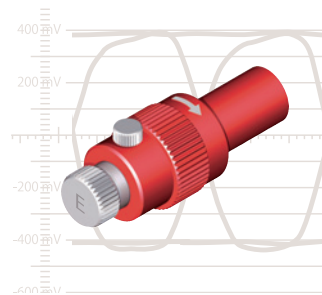
GEG.T7.240.LN | PAZ

DFC Assembly tool for plug

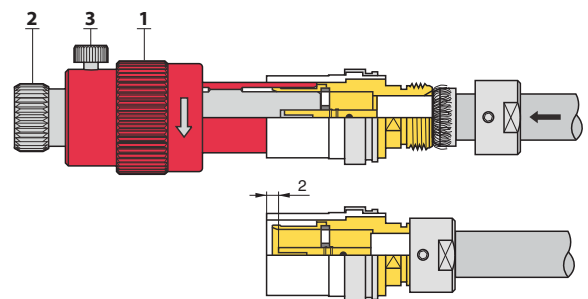
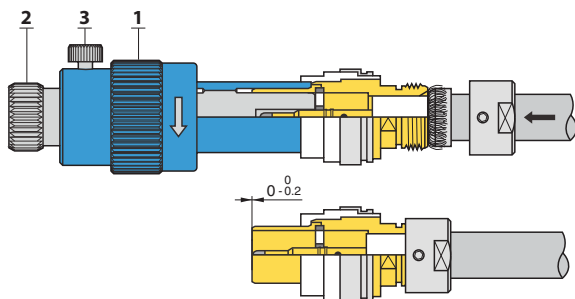


Part number
DFC.T7.105.RA

DEC Assembly tool for socket



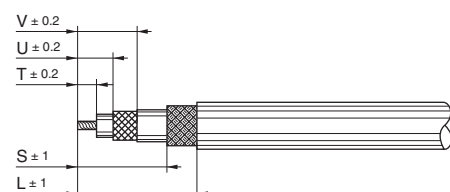
Part number
DEC.T7.110.RR



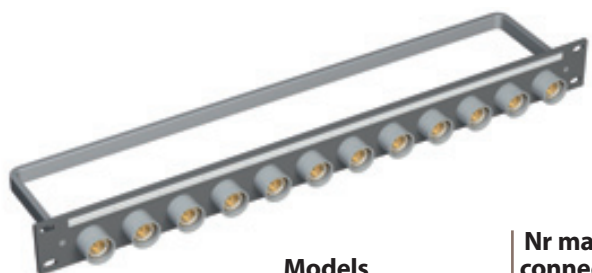
Insert the appropriate tool into the coaxial sleeve, screw the tool **1** until it butts, then screw the pin **2** until it butts up against the insulating washer and tighten the screw **3**.
Push forward the cable until the contact is positioned in the insulating washer.
Screw the collet nut and the safety nut with the appropriate spanners.
Once the tool is pulled out, check the position of the contacts.

Cable stripping length (mm)

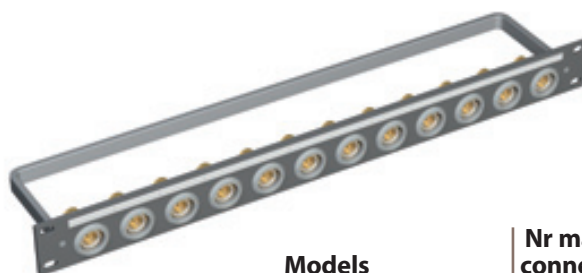
Model	L	S	Solder T	U	V
FAZ	38	30.5	6.5	14.5	18.5
PCZ	38	30.5	6.5	12.0	20.0



PA• Patch panel 1 unit



Models	Nr max. of connectors
FN FNZ socket	12



Models	Nr max. of connectors
FL FLZ socket	12

PB• Patch panel 2 units



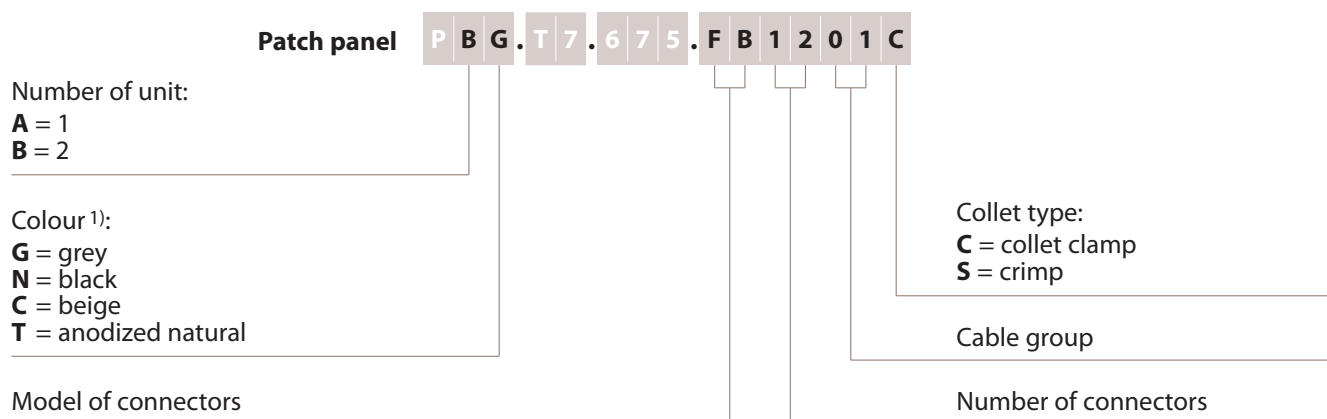
Models	Nr max. of connectors
FB FBZ plug	12
FC FCZ plug	12
FD FDZ plug	12
FE FEZ plug	12
FP FPZ plug	12



Models	Nr max. of connectors
FL FLZ socket	24
FM FMZ socket	12
FN FNZ socket	24
PA PAZ socket	12
PS PSZ socket	12

Models	Nr max. of connectors
PT PTZ socket	12
AD ADF adaptor	12
AD ADZ adaptor	12
AE AED adaptor	12

Part numbering system



Example:

PBG.T7.675.FB1201C = patch panel 2 units, grey colour, with 12 FBZ plugs with cable collet, T7 series, triaxial 75Ω, cable group 01 and C type collet.

Note: ¹⁾ Others colours on request

**Cable assembly****M A A . T 7 . 6 7 5 . 5 0 0 0 1 C N**

Model 1

Model 2

Cable length

Bend relief colour:

R = red**N** = black

Collet type:

C = collet clamp**S** = crimp

Cable group (see page 4)

Example:**MAA.T7.675.50001CN** = 2 plugs with black bend relief, mounted on a 50 m length cable, cable group 01 and cable clamping.**Models 1 and 2**

A	FAZ plug
B	FBZ plug
C	FCZ plug
D	FDZ plug
E	FEZ plug
P	FPZ plug
L	FLZ socket

Models 1 and 2

M	FMZ socket
N	FNZ socket
F	PAZ socket
G	PCZ socket
S	PSZ socket
T	PTZ socket
Z	Without

Cable length

ex. from 0.1 to 99.9 m

005	0.5 m
010	1 m
050	5 m
100	10 m
500	50 m



Triax fibre optic Meerkat™ converter

The camera is powered via a hybrid cable from the CCU with both the camera signals and the return monitor signals being digitally encoded and transmitted over fibre.

The SMPTE 311 hybrid cable uses the well proven technology of the LEMO 3K.93C series. If power from the CCU/OB van is not required, i. e. local power is available, a two fibre cable using 2 x FC-PC or 2 x SC may be used for signal transmission. Every triax-to-fibre Media Converter comes with power supply (110V/220V) adapter and its specific dongle (Sony® ou Grass Valley™).

Applications

- Golf, skiing, auto racing
- Olympic games
- Pre-fibered venues
- Stadiums, racing tracks

Advantages

- Plug & play solution
- Lightweight and portable, compact
- No need for bulky / heavy triax cables
- High quality signal transmitted over fibre
- LED functionality display

Fonctions

- CE and FCC class B certified
- Immune to EMI
- NTSC & PAL
- Digital encoding and transmission
- Portable device
- No repeaters needed

Liste of compatible cameras

- Sony® SD / Grass Valley™ SD
- Grass Valley™ HD

Please contact LEMO for the list of models

Specifications	Value
I/O ports	Triax 75 Ω LEMO-3K.93C (HDTV)
DC in	LEMO 0K series, 2 pin transform.
Dimensions	125 W x 270 L x 50 H
Mass (approx.)	2 kg
Power requirem. ¹⁾	100 to 120 Vac, 50/60 HZ
Power requirem. ²⁾	220 to 240 Vac, 50/60 HZ
Power consumption	16 W
Operating voltage	12 Vdc / 1.5 A max
Operating temp.	-20° C to +55° C

Specifications	Value
Humidity	Up to +95 %
Index protection	IP 66 (when mated)
Optical RX sensivity	- 3 dB to -21 dB
Data rate	2 x 2.5 GB/s
Optical Tx output	200 µW (250 µW max)
Transm. wavelength	1310 nm / 1550 nm
Fuse	4 x 4 Amp Wickmann TR5
AC/DC power supply	2 with UK, USA, Europe adaptors

Notes: ¹⁾ For North America, Japan and areas of South America. ²⁾ For Europe, Africa, Australia, Scandinavia and China.

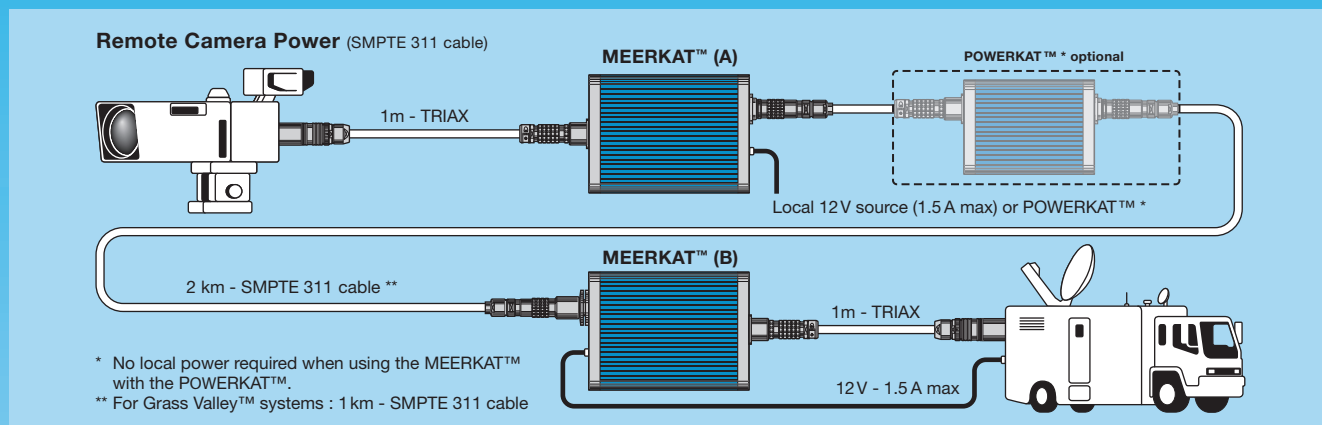
Part Nr of the MEERKAT™ (A) on the camera side	Electrical triax connector on cable	Camera system
PHW.MT.3KC.TFWP10	FAZ.T7.675.CTA01C	Sony® SD / Grass Valley™ SD
PHW.MT.3TH.TFWP10	FAZ.T7.675.CTA01C	Grass Valley™ HD

Part Nr of the MEERKAT™ (B) on the CCU side	Electrical triax connector on cable	Camera system
FGW.MT.3KC.TPWP10	PCZ.T7.675.CTL01C	Sony® SD / Grass Valley™ SD
FGW.MT.3TH.TPWP10	PCZ.T7.675.CTL01C	Grass Valley™ HD



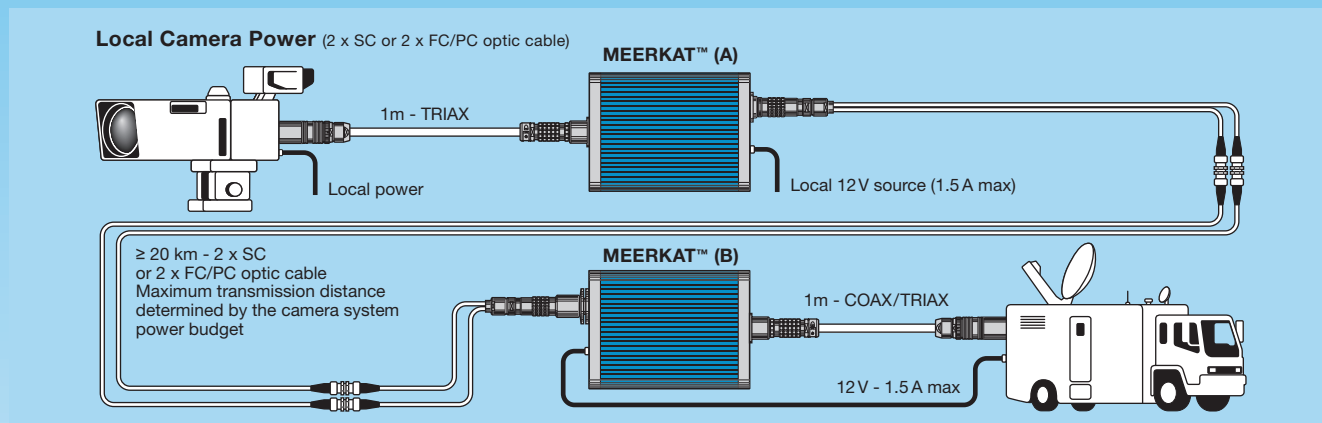
Option 1 - Remote Camera Power

With the Remote Camera Power setup, the camera is powered directly through the SMPTE 311 cable. The useable cable length of the SMPTE 311 cables is limited by the resistance of the copper power conductors and will vary between cables from different cable manufacturers. However distances of up to 2 km are achievable (for Sony® based systems only).



Option 2 - Local Camera Power

With the Local Camera Power setup, the camera is powered with its AC or DC voltage from a local source of power either - a generator or a power pack.





LEMO SA, Headquarters, Ecublens, Switzerland



Engineering Office



VSWR test laboratory



Endurance test



Surface treatment, chrome plating



Surface treatment, gold plating



Plating test laboratory



Automatic assembly, insulators + contacts



Automatic assembly, fixed sockets



Manual assembly



LEMOS SA, Delémont, Switzerland



CNC screw machining, single-spindle



CNC screw machining, multi-spindle



Drilling, CNC milling



Automatic reworking of female contacts



Manual reworking



Injection of insulators



REDEL SA, Sainte-Croix, Switzerland



CNC screw machining, single-spindle



Automatic screw machining of contacts



Mechanics, electric discharge machining



Plastic moulding



3D testing jig



Manual assembly



Ultrasonic welding of sockets



COELVER SA, Lonay, Switzerland



Clean room, assembly of fibre optic contacts



Clean room, inspection of fibre optic assembly



Manual assembly



Inspection of fibre optic polishing



Cable assembly



Over-moulding on cable



REDEL Kft, Budapest, Hungary



CNC screw machining, single-spindle



Cam screw machining, single-spindle



Cam screw machining, multi-spindle



CNC screw machining, multi-spindle



Surface treatment, gold plating



Plastic moulding of bend reliefs



Manual assembly



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