Ordering Guide

for FIST-GCOG2 product range





Ordering Guide of the Generic Gel Sealed Closure Organizer (FIST-GCOG2)

This document provides assistance with the selection of FIST Generic Gel Sealed Closure Organizers (FIST-GCOG2) for use in FIST applications. It includes the following sections:

1 Product description	2
2 Ordering information	3
2.1 How to order this product	3
2.2 Application kits for loose tube cable	4
2.3 Closure name string	8
2.4 Accessories	8
2.5 Installation tools	9
3 Product guide	10
3.1 Closure description	10
3.2 Closure dimensions	13
3.3 Closure capacity	14
3.4 Accessories	15

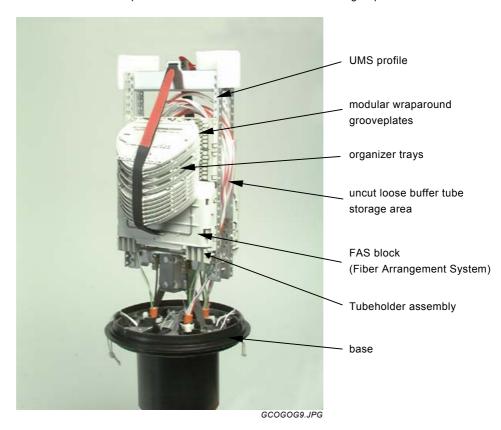


1 Product description

The generic gel closure FIST-GCOG2 is the environmentally sealed, fully mechanical enclosure for the fiber management system that provides the functions of splicing and passive component integration in the external network.

The product can be tailored to almost any required configuration by adding splicing and/or passive device sub-assemblies.

The FIST-GCOG2 has provision for all cable termination and sealing requirements.



The closure is a single-ended design made of a thermoplastic material.

The base and dome are sealed with a clamp and an O-ring system.

The UMS (Universal Mounting System) profiles provide the foundation for mounting combinations of SOSA2 (Splicing Only Sub-Assembly) and/or SASA2 (Splitter Array Sub-Assembly) modules, which consist of a modular groove plate and trays.

Uncut loose buffer tube storage space is available between the two UMS profiles; for central core or slotted core applications, storage baskets are available.

Six round cable ports are provided in a wrap-around block with pre-installed gel profile for cable sealing. This block can be opened and closed repeatedly without the need to remove or replace the gel. The gel block allows bringing in cables gradually without disturbing already installed cables.





2 Ordering information

2.1 How to order this product

Order one of the application kits

Some application kits have been identified for an easy product selection and ordering. These kits contain all necessary accessories for a certain application and fiber count.

The information can be found in paragraph 2.2.

Order the closure and its accessories seperately

For maximum flexibility, the closure and the accessories can be ordered as separate items. The information can be found in paragraphs 2.3 and 2.4.

This is recommended when:

- other splice/fiber capacities are required
- the required configuration is not covered by the application kits (e.g. ANT spliceholders,....)
- ribbon fiber is used
- when the cable configuration is not loose tube
- a mix of cable configurations (e.g. single fiber and Ribbon8) has to be spliced in the same closure
- other quantities and types of cable seal kits are necessary
- an extension of an application kit or installed closure is needed



2.2 Application kits for loose tube cable

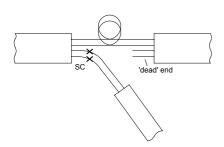
2.2.1 Network functions

Application kits for single fiber have been identified for the following network functions:

Fiber SE Cable Cable Splice

Track joint

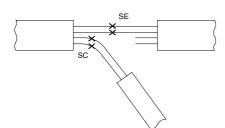
Two cable lengths are spliced onto each other. The joint is not a flexibility point in the network; typically single element trays are used. This type of joint is used when at the end of the cable spool or when an outdoor cable has to be spliced to an indoor cable (cable chamber joint).



Spur joint type 1

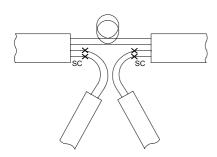
Branch a number of fibers onto another cable; the main cable continues without being cut and spliced. The fibers of the main cable are stored as tubes.

Single circuit trays are used since this is a flexibility point in the network.



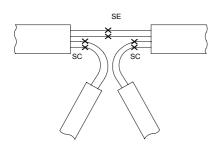
Spur joint type 2

Branch a number of fibers onto another cable; the main cable continues and is spliced as well. The main cable continues via single element trays.



Spur joint type 3

Branch off a secondary ring from a main ring; the main cable continues without being cut and spliced. The fibers of the main cable are stored as tubes.

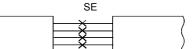


Spur joint type 4

Branch off a secondary ring from a main ring; the main cable continues via single element trays.





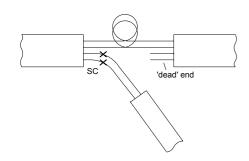


Order code: FIST-GCOG2-TJ-SFKITXX

	Cable fi	ber count					
Fiber organization	24F	48F	72F	96F	144F	192F	288F
Single fiber loose tube	01	02	03	04	05		
8 fibers per tube/tray	(BC6)	(BC6)	(BC6)	(BC6)	(BC6)		
Single fiber loose tube	06	07	08	09	10	11	12
12 fibers per tube/tray	(BC6)	(BC6)	(BC6)	(BC6)	(BC6)	(BC6)	(BD6)

Kit content (detailed in Addendum 1)

- Closure type as indicated in the table, without ground feedthrough and flash test valve
- SOSA2's with Single Element trays for fiber counts indicated in the table
- Heat shrinkable splice protectors (SMOUV-1120-02 with a length of 45 mm)
- 4 plugs for unused cable ports
- 2 cable retention devices
- Universal strength member termination kit for 2 cables



2.2.3 Spur joint type 1

Order code: FIST-GCOG2-SJ1-SFKITXX

Note Kits are defined assuming that 50% of the fibers are spliced to the branch. Example KIT04 contains 24 single circuit trays (for 48 fibers, which is 50% of the indicated fiber count).

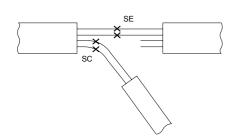
	Cable fiber count						
Fiber organization	24F	48F	72F	96F	144F	192F	288F
Single fiber loose tube	01	02	03	04	05	06	07
2 fibers per tray	(BC6)	(BC6)	(BC6)	(BC6)	(BC6)	(BD6)	(BD6)

Kit content (detailed in Addendum 1)

- Closure type as indicated in the table, without ground feed-through and flash test valve
- SOSA2's with Single circuit trays for 50% of the fiber count indicated in the table.
- Heat-shrinkable splice protectors (SMOUV-1120-02 with a length of 45 mm)
- 3 plugs for unused cable ports
- 3 cable retention devices
- Universal strength member termination kit for 3 cables

Note : the tube diameter of the loop is limited to 2.8 mm for kits 05, 06 and 07.





2.2.4 Spur joint type 2

Order code: FIST-GCOG2-SJ2-SFKITXX

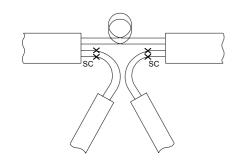
Note Kits are defined assuming that 50% of the fibers are spliced to the branch.

Example KIT09 contains 24 single circuit trays (for 48 fibers = 50% of the indicated fiber count) and 4 single element trays (for 48 fibers = 50% of the indicated fiber count)

	Cable fiber count						
Fiber organization	24F	48F	72F	96F	144F	192F	288F
Single fiber loose tube	01	02	03	04	05		
8 fibers per tray/tube	(BC6)	(BC6)	(BC6)	(BC6)	(BD6)		
Single fiber loose tube	06	07	08	09	10	11	12
12 fibers per tray/tube	(BC6)	(BC6)	(BC6)	(BC6)	(BD6)	(BD6)	(BE6)

Kit content (detailed in Addendum 1)

- Closure type as indicated in the table, without ground feed-through and flash test valve
- SOSA2's with SC trays for 50% of the fiber count indicated in the table.
- SOSA2's with SE trays for 50% of the fiber count indicated in the table.
- Heat-shrinkable splice protectors (SMOUV-1120-02 with a length of 45 mm)
- 3 plugs for unused cable ports
- 3 cable retention devices
- Universal strength member termination kit for 3 cables



2.2.5 Spur joint type 3

Order code: FIST-GCOG2-SJ3-SFKITXX

Note Kits are defined assuming that 50% of the fibers are spliced to the branch.

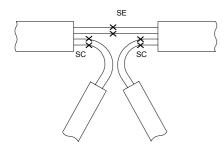
Example KIT04 contains 2x 24 single circuit trays (for 2x 48 fibers, which is 50% of the indicated fiber count).

	Cable fiber count						
Fiber organization	24F	48F	72F	96F	144F	192F	288F
Single fiber loose tube	01	02	03	04	05	06	
2 fibers per tray	(BC6)	(BC6)	(BC6)	(BD6)	(BD6)	(BE6)	

Kit content (detailed in Addendum 1)

- Closure type as indicated in the table, without ground feed-through and flash test valve
- SOSA2's with SC trays for fiber count indicated in the table.
- Heat-shrinkable splice protectors (SMOUV-1120-02 with a length of 45 mm)
- 2 plugs for unused cable ports
- 4 cable retention devices
- Universal strength member termination kit for 4 cables





2.2.6 Spur joint type 4

Order code: FIST-GCOG2-SJ4-SFKITXX

Note Kits are defined assuming that 50% of the fibers are spliced to the branch.

Example KIT09 contains 2x 24 single circuit trays (for 2x 48 fibers = 50% of the indicated fiber

count) and 4 single element trays (for 48 fibers = 50% of the indicated fiber count).

	Cable fiber count						
Fiber organization	24F	48F	72F	96F	144F	192F	288F
Single fiber loose tube	01	02	03	04	05		
8 fibers per tray/tube	(BC6)	(BC6)	(BD6)	(BD6)	(BE6)		
Single fiber loose tube	06	07	08	09	10		
12 fibers per tray/tube	(BC6)	(BC6)	(BD6)	(BD6)	(BE6)		

Kit content (detailed in Addendum 1)

- Closure type as indicated in the table, without ground feed-through and flash test valve
- SOSA2's with SC trays for the fiber count indicated in the table.
- SOSA2's with SE trays for 50% of the fiber count indicated in the table.
- Heat-shrinkable splice protectors (SMOUV-1120-02 with a length of 45 mm)
- 2 plugs for unused cable ports
- 4 cable retention devices
- Universal strength member termination kit for 4 cables



2.3 Closure name string

Refer to section 3.0. for full product descriptions.

FIST-GCOG2-XXX-XX

Closure type

BC6	543 mm long with two 20 units UMS
BD6	621 mm long with two 36 units UMS
BE6	750 mm long with two 52 units UMS

Ground feed-through

G	Pre-mounted ground feed-through
Ν	No around feed-through

Flash test point

٧	Pre-mounted flash test point in dome
N	No flash test valve



Standard kit content

- Dome
- Clamp
- O-ring
- Base including gel block with trigger
- 4 pluas
- 2 cable retention devices
- 2 strength member fixations
- Silica gel
- Allen Key
- UMS profiles
- 2x FAS block (including 2 tubeholders each, cap and wedge) pre-installed
- 2 hook and loop fastener
- 2 traylids (including fiber guiding pin and tube holder retainers)
- 4 plastic bags for uncut loose tube storage
- Installation Instructions

2.4 Accessories

2.4.1 Cable attachment accessories

Name	Qty/Pk	Description
FIST-GCOG-CA	1 pc	Cable retention device
FIST-GCOG-CA-10	10 pc	Cable retention device
FACC-UCT-01	1 pc	Strength member fixation kit
FACC-UCT-10	10 pc	Strength member fixation kit



2.4.2 Mounting kits & work stands

Consult the MOBRA ordering guide for a schematic overview.

Name	Qty/Pk	Description
FIST-GCOG-MOBRA	1 pc	Closure support bracket to be used in combination with
		pole or wall mounting set to mount the closure.
FIST-GCOG-POLE-KIT	1 pc	Pole mounting set to be used in combination with
		FIST-GCOG-MOBRA
FIST-GCOG-WALL-KIT	1 pc	Wall mounting set (2 wood screws, 2 dowels, 2 washers)
		to be used in combination with FIST-GCOG-MOBRA
FIST-GCOG-L-BRACKET	1 pc	L-brackets to attach FIST-GCOG-MOBRA to the table
FIST-GCOG-CCLAMP	1 pc	Set of table mounting clamps to be used in combination
		with FIST-GCOG-MOBRA for closure fixation during
		installation.
FIST-GCOG-CAPH	1 pc	Bracket to be used in combination with a clamp
		(FIST-GCOG-CCLAMP) for closure fixation during
		installation.

2.4.3 Organizer trays

See the FIST-SOSA2 and FIST-SASA2 ordering guide.

2.4.4 Storage baskets

Name	Qty/Pk	Description
FIST-BASKET-A	1 pc	Storage basket for uncut fibers of a loose tube ribbon,
		central core or slotted core cable (size BD6)
FIST-BASKET-B	1 pc	Storage basket for uncut fibers of a loose tube ribbon,
		central core or slotted core cable (size BE6)

2.4.5 Installation kit components

Name	Qty/Pk	Description
FISTV-E7100-1005	10x100 g	Silicagel for inside the closure, to be replaced after each re-entry

2.5 Installation tools

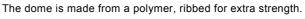
Refer to FIST-INSTAL-KIT ordering guide.



3 Product guide

3.1 Closure description

Dome





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Base

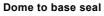
The base houses the gel block and the foundation for the UMS profiles.

Six round cable ports are provided in a wraparound block with pre-installed gel profile. This block has to be placed in the base so that the gel can be compressed by turning the trigger. The



GCOG2OG2.JPG





Gel block with trigger

compressed gel provides the cable sealing.

This seal consists of a mechanical clamp and a rubber O-ring.







UMS (Universal Mounting System) profiles

On the 2 UMS profiles, the wraparound groove plates can be clicked. The capacity of the UMS profile is defined by the closure size. Groove plates are available for single fiber, R4/8 and R12 and in different sizes. See SOSA2 ordering guide for more details.



FAS block

The window between the two FAS blocks is used to route fibers from one side of the FAS block to the other. Tubeholders mounted on each side of the FAS block hold the loose tubes or spiral tubes in position.



FAS block cap

A FAS cap protects mechanically the fibers on the FAS block. Provision has been made to store the tray wedge and the tray lid.



Tube holder

On every side of the FAS block, tube holders are provided to keep tubes coming from the cables in place. Twelve cavities provide a neat organization of the tubes. The total capacity depends on the tube diameter (see paragraph 4.3.1).



Retainers for tube holders

The retainers have to be slid into the tube holders. They are delivered in a set of 12. Spare retainers can be stored on the tray lid.



GCO2OG28.JPG



Expressed fiber storage area

The area between the UMS profiles is used to store uncut loose buffer tubes.

For central core and slotted core cable, storage baskets provide the necessary protection of the fibers.



Cable strength member fixation point

The central strength member of each individual cable can be attached at this point.



Ground feed-through (optional)

A sealed grounding feed-through bolt can be pre-mounted in the base to connect metallic components to an external ground.



Flash test valve (optional)

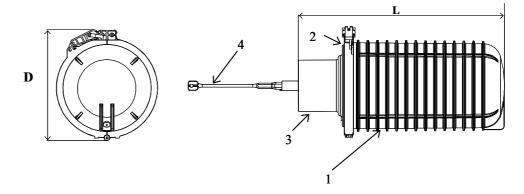
This is pre-mounted in the dome if pressure access is required.



3.2 Closure dimensions

Drawing key:

- 1 Dome
- 2 Clamp
- 3 Base
- 4 Trigger



	Closure type		
Dimensions in mm	BC6	BD6	BE6
L	543	621	750
D	247	247	247
D with clamp	291	291	291



3.3 Closure capacity

3.3.1 General

	01		
	Closure type BC6	BD6	BE6
UMS profile data			-
UMS profile length (units) (1)			
Loose tube and central core cable	2 x 20	2 x 36	2 x 52
Slotted core cable	2 x 20	2 x 32	2 x 48
FAS Block data			
Number of tube holders	4	4	4
Cavities per tube holder	12	12	12
Capacity per tube holder			
- FOPT-SF (1.8 mm)	48	48	48
- tubes of 2.2 mm	48	48	48
- tubes of 2.9 mm	36	36	36
- tubes of 3.1 mm	24	24	24
- tubes of 5.0 mm	12	12	12
- Spiral tube of 6.8 mm	6	6	6
- Spiral tube of 8.8 mm	3	3	3
Maximum number of fibers through			
the window in between the 2 FAS			
plates ⁽²⁾			
- Single fiber	1000	1000	1000
- R4	120	120	120
- R8	64	64	64
- R12	48	48	48
Cable looping capacity			
Single fiber loose tube			
Ø 2.6 mm	7 tubes (3.6 m)	10 tubes (3.8 m)	11 tubes (4 m)
Ø 3.1 mm	4 tubes (3.6 m)	6 tubes (3.8 m)	8 tubes (4 m)
Stored in basket			
- R4 (ribbons)	-	25 + (5.3 m)	25 + (5.9m)
- R8 (ribbons)	-	15 + (5.3 m)	24 + (5.9m)
- R12 (ribbons)	-	12 + (5.3 m)	12 + (5.9m)
Cable port capacity	M 05	M 05	M 05
Six round ports for 1 cable each	Max. 25 mm	Max. 25 mm	Max. 25 mm
	Min. 9 mm	Min. 9 mm	Min. 9 mm

The number indicated is the space that can be occupied by trays. A Single circuit tray occupies 1 unit; a Single Element or R4/8 tray occupies 2 units; a R12 tray needs 3 units. One UMS profile length unit equals 6 mm.

 $^{\,^{(2)}\,}$ Fibers must be evenly spread (entering both from left and right).



3.3.2 Splicing cable to cable - primary coated fibers - loose tube

	Closure type								
	BC6		BD6		BE6				
	Fibers	Trays	Fibers	Trays	Fibers	Trays			
Single circuit splicing capacity						_			
 2 primary coated fibers - SC 	80	40	144	72	208	104			
Single element splicing capacity									
 8 primary coated fibers - SE 	160	20	288	36	416	52			
 12 primary coated fibers - SE 	240	20	432	36	624	52			
Ribbon fiber splicing capacity									
 R4 cable - 2xR4 per tray 	160	20	288	36	416	52			
 R8 cable - R8 tray 	160	20	288	36	416	52			
R12 cable - R12 tray	144	12	288	24	384	32			

Note Capacities indicated above are applicable for Heat Shrinkable, ANT and QPAK splice protectors.

3.4 Accessories

The following accessories are ordered separately for field installation

3.4.1 Cable attachment accessories

FIST-GCOG-CA (1 pc) FIST-GCOG-CA-10 (10 pc)

Cable retention device

Cable jacket gripping device that fits in the metalwork of the base to provide cable attachment.



GCOG001.JPG

FACC-UCT-01 (1 pc) **FACC-UCT-10** (10 pc

Cable termination kit (strength member fixation kit)

Universal strength member termination kit for metallic/non-metallic strength members between 1.5 and 5 mm diameter. The kit includes 1 or 10 universal strength member terminations, 1 or 10 screws and 1 Allen key.



FIK&C103.JPG

GCOG2OG8.JPG

FACC-DSCT-10

Dual strength member fixation kit

This kit has to be used for cables with two strength members or for cables with aramid yarns as a strength member.



3.4.2 Mounting kits & work stands

Consult the MOBRA ordering guide for a schematic overview.



Pole/wall mounting kit

FIST-GCOG-MOBRA

Closure support bracket to be used in combination with FIST-GCOG-POLE-KIT to mount the closure on a pole or in combination with FIST-GCOG-WALL-KIT to mount the closure on the wall.



Pole mounting set for MOBRA

FIST-GCOG-POLE-KIT

2 clamps to be used in combination with the FIST-GCO-MOBRA for pole mounting of the closure.



Wall mounting set for MOBRA

FIST-GCOG-WALL-KIT

Set of 2 wood screws, 2 dowels and 2 washers to use in combination with FIST-GCOG-MOBRA to mount the closure on a wall.



Work stand alternative 1

FIST-GCOG-L-BRACKET

The L-bracket is used to attach FIST-GCOG-MOBRA to the table. (to be used in combination with FIST-GCOG-MOBRA)



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Work stand alternative 2 (part 1)

FIST-GCOG-CCLAMP

Set including 3 clamps to be used in combination with FIST-GCOG-CAPH.



GCOG011.JPG

Work stand alternative 2 (part 2) FIST-GCOG-CAPH

This bracket is used in combination with a clamp (FIST-GCOG-CCLAMP) for closure fixation during installation.



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3.4.3 Organizer modules

See the FIST-SASA2 and FIST-SOSA2 organizer ordering guide.

3.4.4 Storage baskets



Storage basket for size BD FIST-BASKET-A

Storage basket to store the uncut fibers of a loose tube ribbon cable.



Storage basket for size BE FIST-BASKET-B

Storage basket to store the uncut fibers of a loose tube ribbon cable.

Notes:

- 1. To store uncut single fiber loose tubes, no extra items need to be ordered; a plastic sleeve is included in the standard kit to store the tubes between the UMS profiles.
- 2. Uncut fibers can also be stored on trays using their loop-back facility.



Application kit contents for FIST-GCOG2

	Track joint kits FIST-GCOG2-TJ-SFKITxx											
Kit content	01	02	03	04	05	06	07	80	09	10	11	12
FIST-GCOG2-BC6-NN	1	1	1	1	1	1	1	1	1	1	1	
FIST-GCOG2-BD6-NN												1
FIST-GCOG2-BE6-NN												
FIST-SOSA2-4SC-S												
FIST-SOSA2-8SC-S												
FIST-SOSA2-2SE-S		1	1		1	1		1				
FIST-SOSA2-4SE-S	1	1	2	3	4		1	1	2	3	4	6
SMOUV-1120-02 (pc)	24	48	72	96	144	24	48	72	96	144	192	288
Plugs	4	4	4	4	4	4	4	4	4	4	4	4
FIST-GCOG-CA	2	2	2	2	2	2	2	2	2	2	2	2
FACC-UCT-01	2	2	2	2	2	2	2	2	2	2	2	2

	Spur joint type 1 kits FIST-GCOG2-SJ1-SFKITxx										
Kit content	01	02	03	04	05	06	07				
FIST-GCOG2-BC6-NN	1	1	1	1	1						
FIST-GCOG2-BD6-NN						1	1				
FIST-GCOG2-BE6-NN											
FIST-SOSA2-4SC-S		1	1		1						
FIST-SOSA2-8SC-S	1	1	2	3	4	6	9				
FIST-SOSA2-2SE-S											
FIST-SOSA2-4SE-S											
SMOUV-1120-02 (pc)	16	24	40	48	72	96	144				
Plugs	3	3	3	3	3	3	3				
FIST-GCOG-CA	3	3	3	3	3	3	3				
FACC-UCT-01	3	3	3	3	3	3	3				

	Spur joint type 2 kits FIST-GCOG2-SJ2-SFKITxx											
Kit content	01	02	03	04	05	06	07	80	09	10	11	12
FIST-GCOG2-BC6-NN	1	1	1	1		1	1	1	1			
FIST-GCOG2-BD6-NN					1					1	1	
FIST-GCOG2-BE6-NN												1
FIST-SOSA2-4SC-S		1	1		1		1	1		1		
FIST-SOSA2-8SC-S	1	1	2	3	4	1	1	2	3	4	6	9
FIST-SOSA2-2SE-S	1		1	1	1		1			1		
FIST-SOSA2-4SE-S		1	1	1	2	1		1	1	1	2	3
SMOUV-1120-02 (pc)	24	48	72	96	144	24	48	72	96	144	192	288
Plugs	3	3	3	3	3	3	3	3	3	3	3	3
FIST-GCOG-CA	3	3	3	3	3	3	3	3	3	3	3	3
FACC-UCT-01	3	3	3	3	3	3	3	3	3	3	3	3



	Spur joint type 3 kits FIST-GCOG2-SJ3-SFKITxx									
Kit content	01	02	03	04	05	06				
FIST-GCOG2-BC6-NN	1	1	1							
FIST-GCOG2-BD6-NN				1	1					
FIST-GCOG2-BE6-NN						1				
FIST-SOSA2-4SC-S			1							
FIST-SOSA2-8SC-S	2	3	4	6	9	12				
FIST-SOSA2-2SE-S										
FIST-SOSA2-4SE-S										
SMOUV-1120-02 (pc)	32	48	80	96	144	192				
Plugs	2	2	2	2	2	2				
FIST-GCOG-CA	4	4	4	4	4	4				
FACC-UCT-01	4	4	4	4	4	4				

	Spur joint type 4 kits FIST-GCOG2-SJ4-SFKITxx											
Kit content	01	02	03	04	05	06	07	80	09	10		
FIST-GCOG2-BC6-NN	1	1				1	1					
FIST-GCOG2-BD6-NN			1	1				1	1			
FIST-GCOG2-BE6-NN					1					1		
FIST-SOSA2-4SC-S						1		1				
FIST-SOSA2-8SC-S	2	3	5	6	9	1	3	4	6	9		
FIST-SOSA2-2SE-S	1		2	1	1	1	1			1		
FIST-SOSA2-4SE-S		1		1	2			1	1	1		
SMOUV-1120-02 (pc)	40	72	112	144	216	36	72	108	144	216		
Plugs	2	2	2	2	2	2	2	2	2	2		
FIST-GCOG-CA	4	4	4	4	4	4	4	4	4	4		
FACC-UCT-01	4	4	4	4	4	4	4	4	4	4		

TE Connectivity products deliver a competitive advantage by meeting stringent demands for performance and reliability.

Innovative TE Connectivity components and systems are used in telecommunications, electronics, transportation, infrastructure and energy networks markets throughout the world.

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