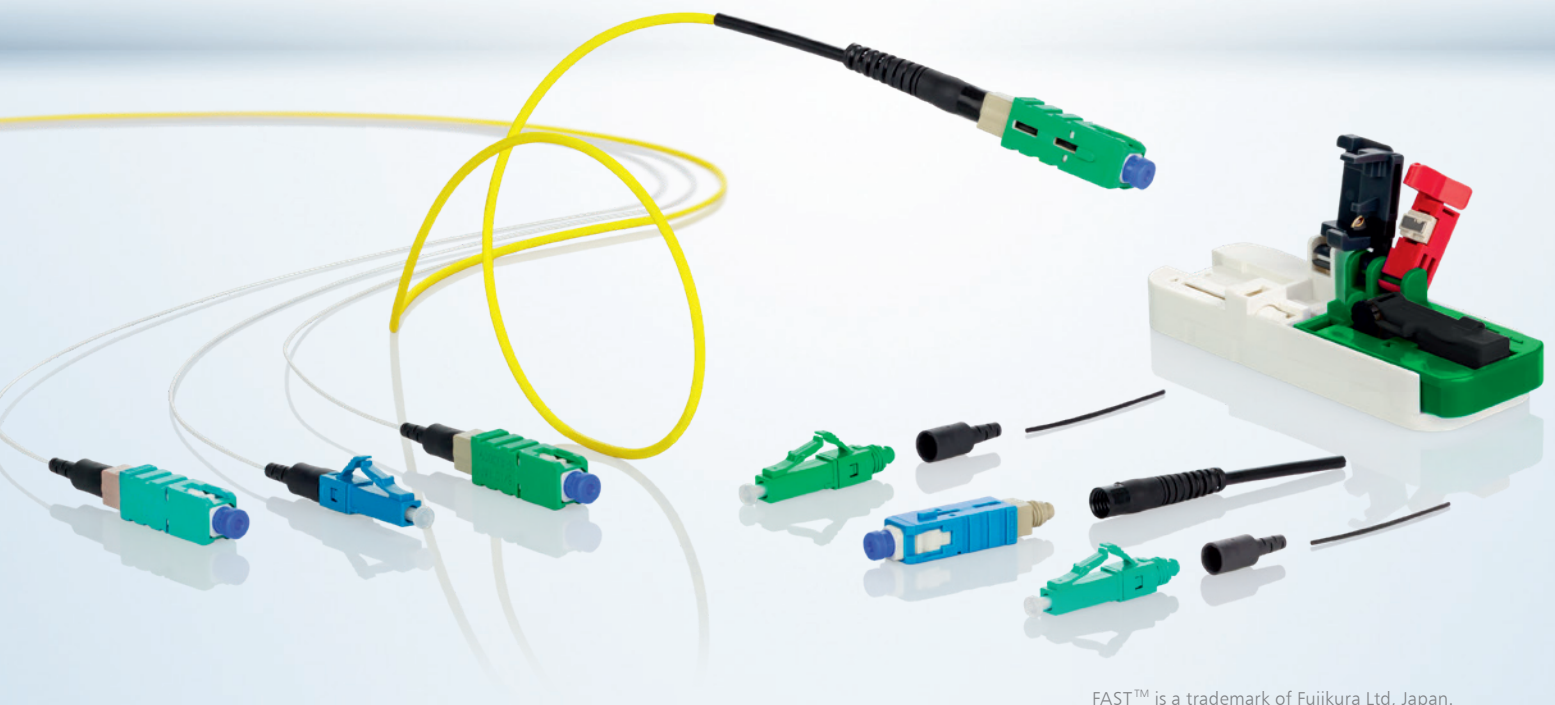


# OpDAT FAST™ Hybrid – field installable multimode and singlemode fiber optic connector with Opto-Elast

**NEW**  
Now also for  
Multimode



FAST™ is a trademark of Fujikura Ltd, Japan.

# OpDAT FAST™ Hybrid

## field installable fiber optic (FO) connector with Opto-Elast

The OpDAT FAST™ Hybrid connector is a field installable FO connector that offers constant and stable transmission values thanks to its new hybrid technology in the connection of the fibers to each other. The FO connector can be assembled easily and quickly in the field - without gluing, without polishing and without special tools. The factory polished ceramic ferrule guarantees good and stable connection parameters. The fiber to be terminated is connected via a mechanical splice located inside the connector. Thanks to the new hybrid technology, this connection is particularly reliable and low-loss. All accessories required for connector assembly are included in the scope of delivery. This eliminates the need for a further investment in special equipment and special tools.

### Properties

- > with hybrid technology for better and constant optical insertion loss values
- > no polishing and no gluing during the assembly on site
- > available with connector types LC and SC for APC, UPC and PC polishing
- > connector kits for buffered fibers with Ø 0.25 and Ø 0.9 mm
- > connector kits for FO cables with Ø 2.0 and Ø 3.0 mm
- > the connector can be assembled up to three times
- > the included cleaver provides an angled cut so high return loss values will be achieved. The cleaver is maintenance free and can be used up to 200 times.
- > each OpDAT FAST™ Hybrid connector has a serial number, so that traceability is guaranteed at all times

### Applications

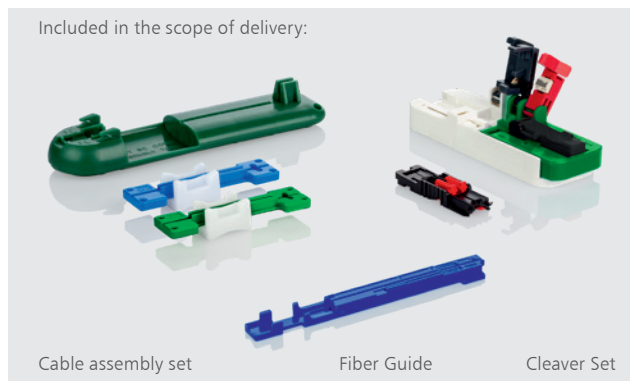
- > for FTTH and FITH connections
- > structured cabling
- > in areas that are difficult to access or areas with limited space
- > industrial environments
- > Connections in the field, such as camera and video
- > repairs in the field
- > for direct mounting on components

### Tools

In addition, tools are supplied together with the connector kits to make the assembly much easier.

A Fiber Optic Tool Bag is available as an option, the contents of which are generally suitable for all further work with optical fibers.

Included in the scope of delivery:



Optional:



## Technology

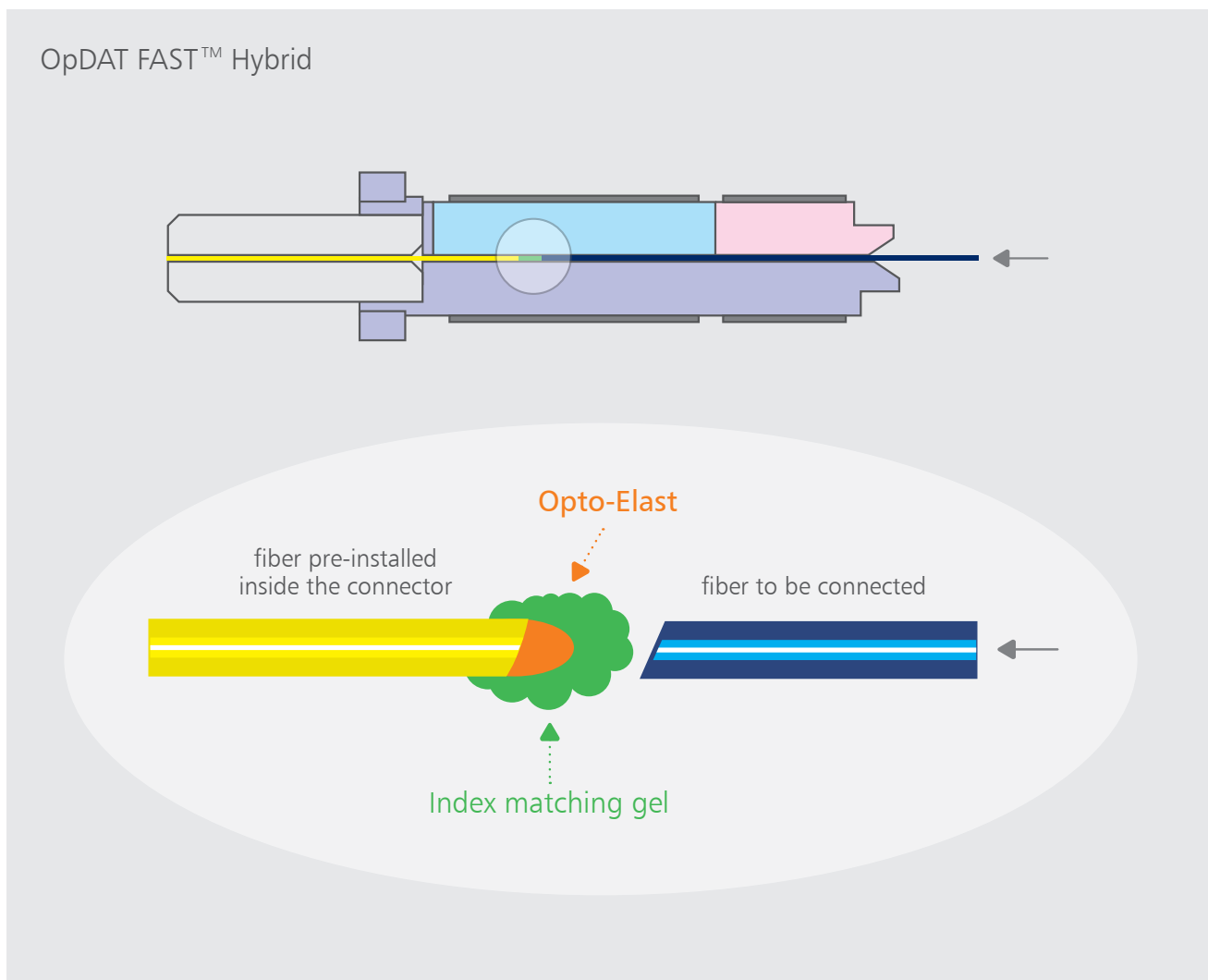
The OpDAT FAST™ Hybrid connector offers consistent good insertion loss and return loss values thanks to the new hybrid technology and the angled cut of the fibers inside.

The combination of the conventional refractive index gel and the newly developed **Opto-Elast** was verified in the laboratory and represents the next development step in field installable FO connectors.

During assembly, the end of the fiber to be connected is immersed into the refractive index gel and into the Opto Elast, which is applied directly to the pre-installed fiber. The **Opto-Elast** stabilizes the light transfer between the two fibers in the embedded refractive index gel..

In addition to the above described hybrid technology, the fiber pre-installed inside the connector is already cut with an angle. The fiber to be connected is also cut at an angle using the new cleaver. The return loss reaches values in physical contact of over 60dB for APC connectors and over 35dB for multimode connectors.

The result of these two described advantages is a long-term stable and powerful optical connection.



## Order information – Singlemode

CONNECTOR TYPE	P/N	SCOPE OF DELIVERY		CABLE TYPE
		CONNECTOR KITS	ACCESSORIES	
LC APC	1509QAJA010C-E	100	Cleaver Set Fiber Guide	0.25 + 0.9 mm 
	1509QAJA002C-E	20	Cleaver Set Fiber Guide	
	1509QAJA0010-E	10	–	
	1509QKJA010C-E	100	Cleaver Set, Fiber Guide Cable assembly set	2.0 + 3.0 mm 
	1509QKJA002C-E	20	Cleaver Set, Fiber Guide Cable assembly set	
	1509QKJA0010-E	10	–	
LC UPC	1509QAJO010C-E	100	Cleaver Set Fiber Guide	0.25 + 0.9 mm 
	1509QAJO002C-E	20	Cleaver Set Fiber Guide	
	1509QAJO0010-E	10	–	
	1509QKJO010C-E	100	Cleaver Set, Fiber Guide Cable assembly set	2.0 + 3.0 mm 
	1509QKJO002C-E	20	Cleaver Set, Fiber Guide Cable assembly set	
	1509QKJO0010-E	10	–	
SC APC	1509QAEA010C-E	100	Cleaver Set Fiber Guide	0.25 + 0.9 mm 
	1509QAEA002C-E	20	Cleaver Set Fiber Guide	
	1509QAEA0010-E	10	–	
	1509QKEA010C-E	100	Cleaver Set, Fiber Guide Cable assembly set	2.0 + 3.0 mm 
	1509QKEA002C-E	20	Cleaver Set, Fiber Guide Cable assembly set	
	1509QKEA0010-E	10	–	
SC UPC	1509QAE0010C-E	100	Cleaver Set Fiber Guide	0.25 + 0.9 mm 
	1509QAE0002C-E	20	Cleaver Set Fiber Guide	
	1509QAE00010-E	10	–	
	1509QKE0010C-E	100	Cleaver Set, Fiber Guide Cable assembly set	2.0 + 3.0 mm 
	1509QKE0002C-E	20	Cleaver Set, Fiber Guide Cable assembly set	
	1509QKE00010-E	10	–	






## Order information – Multimode

CONNECTOR TYPE	P/N	SCOPE OF DELIVERY		CABLE TYPE
		CONNECTOR KITS	ACCESSORIES	
	1509MAJO010C-E	100	Cleaver Set Fiber Guide	
	1509MAJO002C-E	20	Cleaver Set Fiber Guide	
	1509MAJO0010-E	10	–	
LC PC	1509MKJO010C-E	100	Cleaver Set Fiber Guide Cable assembly set	
	1509MKJO002C-E	20	Cleaver Set Fiber Guide Cable assembly set	
	1509MKJO0010-E	10	–	
	1509MAEO010C-E	100	Cleaver Set Fiber Guide	
	1509MAEO002C-E	20	Cleaver Set Fiber Guide	
	1509MAEO0010-E	10	–	
SC PC	1509MKEO010C-E	100	Cleaver Set Fiber Guide Cable assembly set	
	1509MKEO002C-E	20	Cleaver Set Fiber Guide Cable assembly set	
	1509MKEO0010-E	10	–	


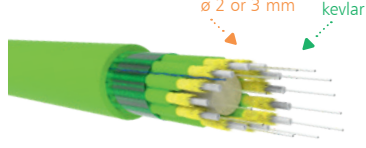

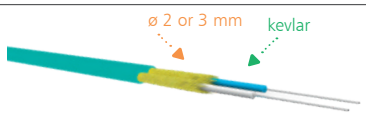
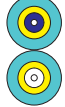

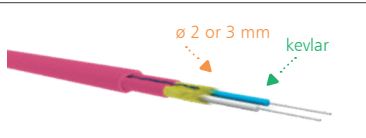


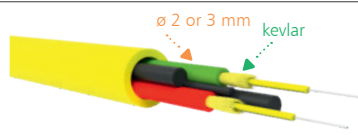
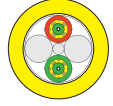
## Technical Data

CONNECTOR TYPE	SC	LC
IEC	61754-4	61754-20
TIA/EIA	604-3	604-10-A
Diameter of the ceramic ferrule	2.5 mm	1.25 mm
Fiber Type	OM3/OM4 (MM 50/125 $\mu$ m)	
	OS2 (SM 9/125 $\mu$ m) G.657.A1	
Colour	UPC polishing	blue
	APC polishing	green
	PC polishing	aqua
Insertion loss (against master)	SM	0.3 to 0.5 dB
	MM	0.2 to 0.4 dB
Return loss	UPC polishing (SM)	> 50 dB
	APC polishing (SM)	> 60 dB
	PC polishing (MM)	> 35 dB
Temperature range (depending on cable)	-25° to +70°C (for 0.25 mm fiber)	




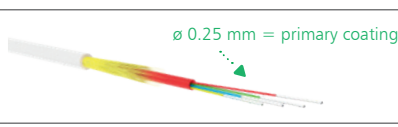




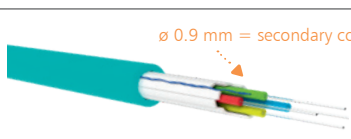


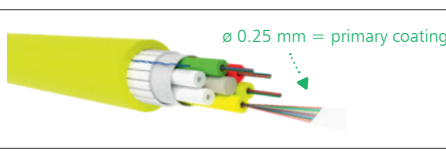


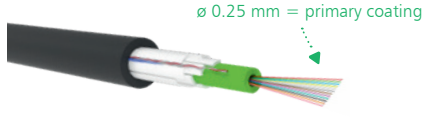

## Optional Accessories/ Spare Parts

	DESCRIPTION	P/N	SCOPE OF DELIVERY
	Cable assembly set for LC	15080020KJO-E	LC assembling tool Cable clamp for $\varnothing$ 2 mm Cable clamp for $\varnothing$ 3 mm
	Cable assembly set for SC	15080020KEO-E	SC assembly tool Cable clamp for $\varnothing$ 2 mm Cable clamp for $\varnothing$ 3 mm
	Fiber Guide for LC	15080020FGJ-E	
	Fiber Guide for SC	15080020FGE-E	
	FO tool bag	150800200-E	Kevlar scissors Red light source Settling pliers Cleaning tissues Cleaning fluid 2 ferrule cleaners Tweezers Fiber waste container 2 screwdrivers Foil pen

## Cable variant – suitable for

	CABLE TYPE		CABLE DESIGN
	breakout cable I-V(ZN)HH		
	patch cord (simplex, duplex) I-V(ZN)H		
	connection cable I-V(ZN)HH		
	industry cable I-V(ZN)Y11Y		

## Buffer variant – suitable for

	CABLE TYPE		CABLE DESIGN
	buffer		
	FITH cable		
	mini-breakout compact		
	mini-breakout cable U-VQ(ZN)H		
	universal cable (central loose tube) U-DQ(ZN)BH		
	outdoor cable (central loose tube) A-DQ(ZN)B2Y		



We realize ideas

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