

FIBER OPTIC

Hybrid To The Antenna solution



Simple Connectivity Solution

Company Infomation

Telcon seeks to develop the best technology by continuous investments in developing wireless communication parts which are essential for ICT business since the founding in 1999. Especially, we offer high-quality services in the fields of wireless communication device, wireless network installation, and communication system.

Moreover, our business area has expanded to automotive and medical equipment with the establishment of local subsidiaries in China and Vietnam, which help us enhance global competitiveness.

Core Values



Vision



Business Area



Contents

Screw type Multi opti	cal connectors	∕ ● 04
16HEX, 19HX, 26HEX Series		
Push/Pull type Multi o	ptical connectors	→ 05
Screw type Hybrid co	nnectors	→ 06-08
26HEX Series 32HEX Series 39HEX Series		
Push/pull type Hybrid	connectors	→ 09-10
24mm Series 26mm Series		
Hybrid Feeder & Jump	per assembly	/ ● 11-12
Push/Pull Series (distribute parts) Push/Pull Series (distribute parts)		
Hybrid Distribution Bo	ΟX	√ ● 13-16
Screw Series (distribute parts) Push/Pull Series (distribute parts) Rotation type		

Screw type Multi optical connectors

16HEX, 19HX, 26HEX Series

Telcon's Screw type multi optical Connector is designed to provide multiple optical ports within a single connector, and it provides the following advantages.



- Easy installation
- Cable-Saving design
- Very robust housing and coupling mechanism
- Stable optical performance

Parameter			Value
			Ф17.6, 16НЕХ
Dimension	(Front coupling part)		Ф25.0, 19НЕХ
. 5			Ф27.8, 26НЕХ
Cable diar	neter		Customizing
Durability			100 matings
Temperati	ire range		-40 °C~ 80 °C
Ingress pro	otection		IP67
Corrosion resistance(salt 5%)			720hrs
Cable retention force			80 kgf
UV resistance			Compliant
RoHS			Compliant
Material (Coating)			Brass, TIP (Patent)
		Ф17.6, 16НЕХ	4 fibers MAX
	Composition	Ф25.0, 19НЕХ	8 fibers MAX
Omtin		Ф27.8, 26НЕХ	12 fibers MAX
Optic Mating module			1.25mm UPC, Zirconia
Insertion Loss			-0.4dB @ 1310nm/1550nm, typica
Return Loss			-45dB @ 1310nm/1550nm, typical

Push/Pull type Multi optical connectors

Telcon's Push/Pull type multi optical Connector is designed to provide multiple optical ports within a single connector, and it provides the following advantages.



- Very easy(Fast) installation
- Cable-Saving design
- Robust housing and coupling mechanism
- Stable optical performance

Parameter			Value
Dimension(Front coupling part)		Ĭ	Ф18.1
Cable diame	eter		Customizing
Durability			100 matings
Temperature	e range		-40 °C~ 80 °C
Ingress prote	ection		IP67
Corrosion resistance(salt 5%)			720hrs
Cable retention force			20 kgf
UV resistance			Compliant
RoHS			Compliant
Material (Co	ating)		Brass, TIP (Patent)
Optic	Composition		4 fibers MAX
	Mating module		1.25mm UPC, Zirconia
	Insertion Loss		-0.4dB @ 1310nm/1550nm, typical
Return Loss			-45dB @ 1310nm/1550nm, typical

Screw type Hybrid connectors

26HEX Series

Telcon's Screw type hybrid connector is designed to provide both fiber and power within a single connector, and it provides the following advantages



- Easy installation
- Cable-Saving design
- Very robust housing and coupling mechanism
- Stable optical performance

Para	meter	Value
Dimension(Front coupling part)		Ф27.8, 26HEX
Cable diameter		Customizing
Durability		100 matings
Temperature range		-40 °C~ 80 °C
Ingress protection		IP67
Corrosion resistance(salt 59	%)	720hrs
Cable retention force		80 kgf
UV resistance		Compliant
RoHS		Compliant
Material (Coating)		Brass, TIP (patent)
	Composition	4 fibers MAX.
Ontin	Mating module	1.25mm UPC, Zirconia
Optic	Insertion Loss	-0.4dB @ 1310nm/1550nm, typical
	Return Loss	-45dB @ 1310nm/1550nm, typical
	Composition	1pair(2C), dc
D	Working current	30A
Power	Working voltage	2500V
	Cable conductor size	10SQ MAX

Screw type Hybrid connectors

32HEX Series

Telcon's Screw type hybrid connector is designed to provide both fiber and power within a single connector, and it provides the following advantages.



- Easy installation
- Cable-Saving design
- Very robust housing and coupling mechanism
- Multi connection design, and Stable optical performance

Para	meter	Value
Dimension(Front coupling part)		Ф34.5, 32НЕХ
Cable diameter		Customizing
Durability		100 matings
Temperature range		-40 °C~ 80 °C
Ingress protection		IP67
Corrosion resistance(salt 59	%)	720hrs
Cable retention force		80 kgf
UV resistance		Compliant
RoHS compliant		Compliant
Material (Coating)		Brass, TIP (Patent)
	Composition	4 fibers MAX.
0-4:-	Mating module	1.25mm UPC, Zirconia
Optic	Insertion Loss	-0.4dB @ 1310nm/1550nm, typical
	Return Loss	-45dB @ 1310nm/1550nm, typical
	Composition	1pair(2C), dc
Dawer	Working current	40A
Power	Working voltage	300V
	Cable conductor size	10SQ MAX

7

Screw type Hybrid connectors

39HEX Series

Telcon's Screw type hybrid connector is designed to provide both a lots of fiber and power within a single connector. And it provides the following advantages.



- Easy installation
- Cable-Saving design
- Very robust housing and coupling mechanism
- Multi connection design, and Stable optical performance

Parameter		Value
Dimension(Front coupling part)		Ф41.6, 39НЕХ
Cable diameter		Customizing
Durability		100 matings
Temperature range		-40 °C~ 80 °C
Ingress protection		IP67
Corrosion resistance(salt 5%	6)	720hrs
Cable retention force		150 kgf
UV resistance		Compliant
RoHS compliant		Compliant
Material (Coating)		Brass, TIP (Patent)
	Composition	12 fibers typical
Ontic	Mating module	MTP or MPO, APC
Optic	Insertion Loss	-0.7dB @ 1310nm/1550nm, typical
	Return Loss	-50dB @ 1310nm/1550nm, typical
	Composition	4pair(8C), dc
Power	Working current	30A
rowei	Working voltage	250V
	Cable conductor size	10SQ MAX

Push/pull type Hybrid connectors

24mm Series

Telcon's Push/pull type hybrid connector is designed to provide both fiber and power within a single connector. And it provides the following advantages.



- Very easy(Fast) installation
- Cable-Saving design
- Robust housing and coupling mechanism
- Stable optical performance

Parameter		Value
Dimension(Front coupling part)		Ф23.7
Cable diameter		Customizing
Durability		100 matings
Temperature range		-40 °C~ 80 °C
Ingress protection		IP67
Corrosion resistance(salt 59	%)	720hrs
Cable retention force		50 kgf
UV resistance		Compliant
RoHS compliant		Compliant
Material (Coating)		Brass, TIP (Patent)
	Composition	4 fibers MAX.
Ontic	Mating module	1.25mm UPC, Zirconia
Optic	Insertion Loss	-0.4dB @ 1310nm/1550nm, typical
	Return Loss	-45dB @ 1310nm/1550nm, typical
	Composition	1pair(2C), dc
D	Working current	15A
Power	Working voltage	200V
	Cable conductor size	6SQ MAX

Push/pull type Hybrid connectors

26mm Series

Telcon's Push/pull type hybrid connector is designed to provide both fiber and power within a single connector. And it provides the following advantages.

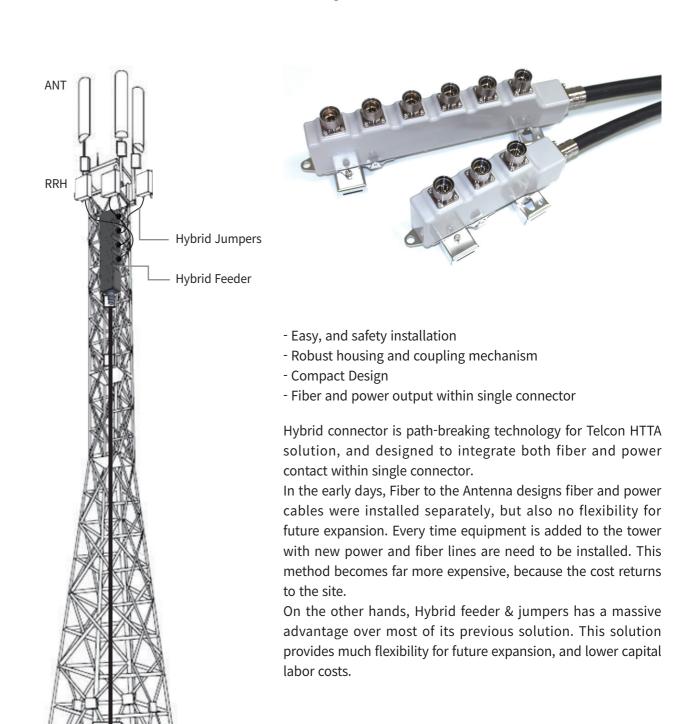


- Very easy(Fast) installation
- Cable-Saving design
- Robust housing and coupling mechanism
- Stable optical performance

Parai	meter	Value
Dimension(Front coupling part)		Ф25.7
Cable diameter		Customizing
Durability		100 matings
Temperature range		-40 °C~ 80 °C
Ingress protection		IP67
Corrosion resistance(salt 5%	6)	720hrs
Cable retention force		50 kgf
UV resistance		Compliant
RoHS compliant		Compliant
Material (Coating)		Brass, TIP (Patent)
	Composition	4 fibers MAX.
Ontin	Mating module	1.25mm UPC, Zirconia
Optic	Insertion Loss	-0.4dB @ 1310nm/1550nm, typical
	Return Loss	-45dB @ 1310nm/1550nm, typical
	Composition	1pair(2C), dc
Davier	Working current	30A
Power	Working voltage	250V
	Cable conductor size	8SQ MAX

Hybrid Feeder & Jumper assembly

Push/Pull Series (distribute parts)



BBU

Hybrid Feeder & Jumper assembly

Push/Pull Series (distribute parts)

Parameter		Value
Dimension 3way distribute		100(W) x 125(H) x 270(L)
Dimension	6way distribute	100(W) x 125(H) x 420(L)
Main cable	3way	3/3 Hybrid cable (6SQ/6C, 6fibers)
Main cable	6way	6/6 Hybrid cable (6SQ/12C, 12fibers)
		2C/4fibers Hybrid connector(Push/Pull type)
Connectivity of Dis	tribute parts (x 3 or 6)	-Power, 1pairs(2C),dc
		-Optic, 4fibers MAX. 1.25mm UPC, Zirconia
Mounting Pole diar	neter	< 600mm
Mating durability		100 matings
Pulling force		1500N(short-term during installation)
Temperature range		-40 °C~ 80 °C
Ingress protection		IP67
Corrosion resistance(salt 5%)		720hrs
UV resistance		ok
RoHS compliant		ok
	Box	AL6061 or ALDC12.1 / Powder Coating
Material (Outside)	Connectors	Brass, Special plating
	Brackets & Screws	STS304
Data		
Insertion Loss		-1.4dB @1310nm/1550nm, typical(with Jumper)
Optic	Return Loss	-45dB @1310nm/1550nm, typical
D	Working current	23A
Power	Conductor resistance	3.08Ω/Km @20°C (nominal)

-LC or MPO connector BBU side

-Jumper for RU side





Hybrid Distribution Box



Hybrid connector is path-breaking technology for Hybrid juntion box, and designed to integrate both fiber and power contact within single connector.

Hybrid distribution box is plug and play solution with factory pre-terminated ports, and designed to support latest composite feeder cable solution. We used hybrid screw type and push-pull type connector as an input and output ports for fast and easy installation.

It allows also simple short connection between hybrid jumpers and RRU side.



|

Hybrid Distribution Box

Screw Series (distribute parts)



- Easy, and safety installation
- Robust housing and coupling mechanism
- Compact Design
- Fiber and power output within single connector

Parameter		er	Value
Dimension	2:	way distribute	100(W) x 108(H) x 161(L)
Dimension	4	way distribute	100(W) x 108(H) x 285(L)
Compositivity	M	lain part	8C/12fibers Hybrid connector(Screw type) -Power, 4pairs(8C),dc -Optic, 12fibers MTP or MPO, APC
Connectivity	D	Distribute parts(x 2 or 4)	2C/4fibers Hybrid connector(Screw type) -Power, 1pairs(2C),dc -Optic, 4fibers MAX. 1.25mm UPC, Zirconia
Mounting Pole diar	neter		< 600mm
Mating durability			100 matings
Temperature range			-40 °C~ 80 °C
Ingress protection			IP67
Corrosion resistance(salt 5%)			720hrs
UV resistance			Compliant
RoHS compliant			Compliant
	Box		AL6061 or ALDC12.1 / Powder Coating
Material (Outside)	Connector	'S	Brass, Special plating
Brackets & Screws		Screws	STS304
Data			
Optic		nsertion Loss	-1.1dB @ 1310nm/1550nm, typical
		Return Loss	-45dB @ 1310nm/1550nm, typical
Power	W	Vorking current	30A
Power		Vorking voltage	250V

Hybrid Distribution Box

Push/Pull Series (distribute parts)



- Easy, and safety installation
- Robust housing and coupling mechanism
- Compact Design
- Fiber and power output within single connector

Parameter		Value
2way distribute		100(W)x 108(H) X 161(L)
Dimension	4way distribute	100(W)x 108(H) X 237(L)
Connectivity	Main part	8C/12fibers Hybrid connector(Push/Pull type) -Power, 4pairs(8C),dc -Optic, 12fibers MTP or MPO, APC
Connectivity	Distribute parts(x 2 or 4)	2C/4fibers Hybrid connector(Push/Pull type) -Power, 1pairs(2C),dc -Optic, 4fibers MAX. 1.25mm UPC, Zirconia
Mounting Pole diar	neter	< 600mm
Mating durability		100 matings
Temperature range		-40 °C~ 80 °C
Ingress protection		IP67
Corrosion resistance	e(salt 5%)	720hrs
UV resistance		ok
RoHS compliant		ok
	Box	AL6061 or ALDC12.1 / Powder Coating
Material (Outside)	Connectors	Brass, Special plating
	Brackets & Screws	STS304
Data		
Insertion Loss		-1.1dB @ 1310nm/1550nm, typical
Optic	Return Loss	-45dB @ 1310nm/1550nm, typical
Power	Working current	30A
rowei	Working voltage	250V



Company Products















KOREA

684, Dongtangiheung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17102, Republic of Korea TEL +82-31-371-8507~8519 FAX +82-31-371-8532

38 South Tuanjie Road Hi-Tech Zone of Xian Xiancity Shaanxi Province P.R China **TEL** +86-029-6871-7865~67

VIETNAM

 ${\tt Dong\,Van\,1\,Industrial\,Zone,\,Bach\,Thuong\,commune,\,Duy\,Tien\,district,\,Ha\,Nam\,province,\,Viet\,Nam}$ **TEL** +84-226-358-2355~6