

 **NET.Fit**<sup>®</sup>  
**Gas Block**

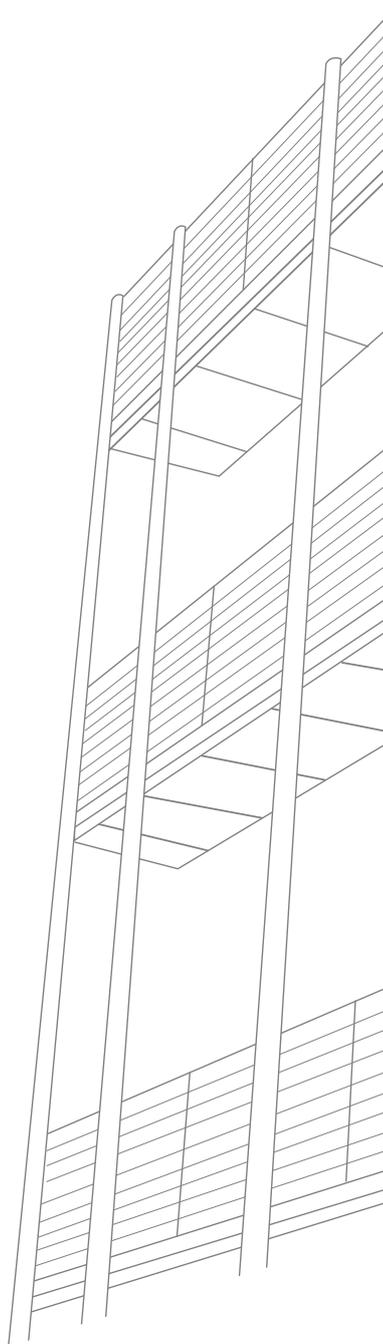


**25**  
anniversary

 **TierreGroup**<sup>®</sup>  
Unique vision







 **TierreGroup**®

 **TierreFittings**®

 **F-Line.PRO**

 **NET.Fit**®

 **INOX.Fit**®



# NET.Fit<sup>®</sup>

## Gas Block

PLUS

**EXTENSIVE RANGE** of cable seals available

**FULLY TRANSPARENT** (clear) body for ease of visual inspection to ensure the tube is inserted correctly

**SAFETY PRE-INSTALLED LOCKING CLIP SYSTEM** to prevent microducts being accidentally disconnected

**EASY CONNECTION & DISCONNECTION** of the duct thanks to the intelligent gripping system



*If It's Not Fiber, It's Not Broadband*



## PRODUCTS

Double push-in system



p. 7 / **FXGB2P**

Single push-in system



p. 7 / **FXGB1P**

Compact single push-in system



p. 8 / **FXGB1P-BR**

## ACCESSORIES

Safety locking clips



p. 9 / **FXLC**

Metal tube cutter



p. 9 / **PZ-G**

Spare blade for  
PZ-G



p. 9 / **LM-G**

Plastic tube cutter



p. 9 / **TT16**



NET.Fit Gas Block fittings and accessories have been designed by Tierre Group in order to be used for FTTx applications. NET.Fit is manufactured in compliance with the EN 50411-2-8.

**NET.Fit products have been tested in order to simulate a 20-years lifetime.**



-20°C ÷ +50°C



**Working Pressure:**  
20 Bar  
**Short term blowing pressure (10'')**:  
25 Bar  
**Burst pressure (all diameters):**  
>45 Bar



Air



**Body:** Transparent HP Polymer  
**Cartridge:** Nickel Plated Brass  
**Collet:** Techno Polymer  
**Seal:** NBR  
**Lock Claw:** Stainless Steel  
**Cable Seal:** Silicone  
**Compression Nut:** Techno Polymer  
**Back Ring:** Techno Polymer  
**Locking Clip:** Techno Polymer



**EN 50411-2-8:** Microduct connectors - specifications  
EN 61300-2-4: Microduct Retention  
EN 61300-2-10: Crush Resistance  
EN 60794-1-2:2003, Method E4: Impact  
EN 61300-2-33: Re-entries  
EN 61300-2-22: Change of temperature (cycling)  
EN 50411-2-8, Annex C: High pressure resistance (safety)  
EN 50411-2-8, Annex D: Installation test  
EN 50411-2-8, Annex E: Insertion force  
**EN 60529:** IP 68  
**EN 61386-22:** Glow wire test at 750°C (main body only)

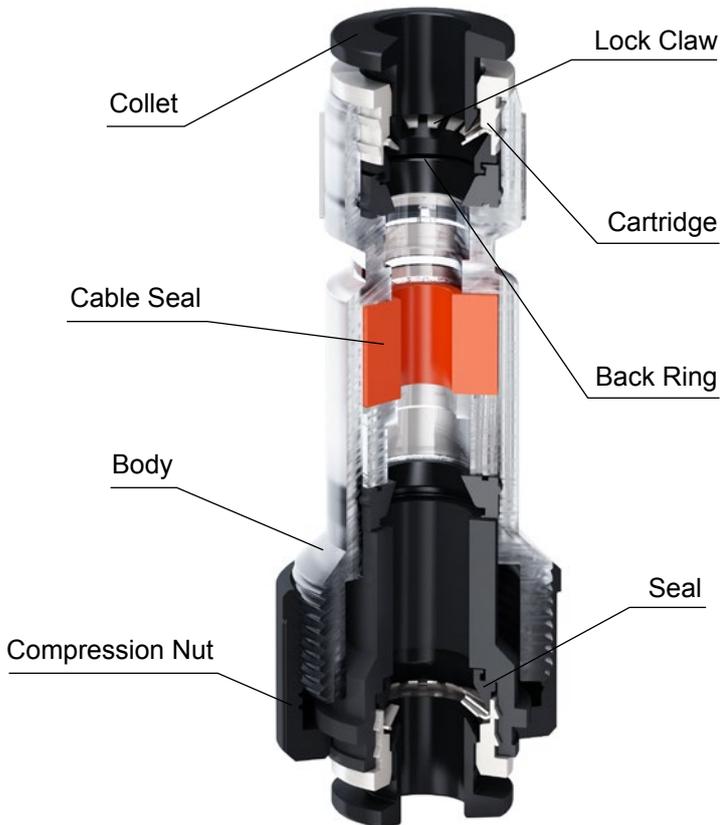


Products in compliance with the regulation EC 1907/2006



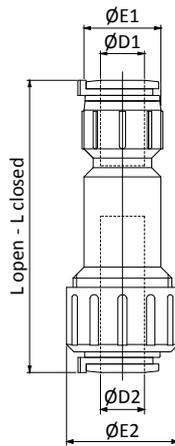
Products in compliance with the directive EU 2015/863

## CONSTRUCTION DETAILS



**FXGB2P**

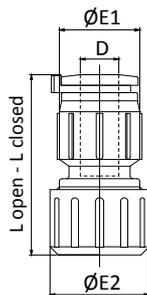
Gas Blocks double push-in system



CODE	ØD1 (mm)	ØD2 (mm)	ØE1 (mm)	ØE2 (mm)	FIBRE CABLE SIZE RANGE (mm)	CABLE SEAL COLOR	L open (mm)	L closed (mm)	Q.TY
FXGB2P04-0,5/2,5-LC	4	4	11,0	17,5	0,5/2,5	BLUE	53,0	50,0	50
FXGB2P05-0,5/3,5-LC	5	5	13,0	20,5	0,5/3,5	BLUE	55,9	52,9	50
FXGB2P0705-0,5/3,5-LC	7	5	14,6	20,5	0,5/3,5	BLUE	58,6	55,6	50
FXGB2P07-0,5/3,5-LC	7	7	14,6	22,5	0,5/3,5	BLUE	66,8	63,8	25
FXGB2P07-3/5-LC	7	7	14,6	22,5	3/5	RED	66,8	63,8	25
FXGB2P0805-0,5/3,5-LC	8	5	14,6	20,5	0,5/3,5	BLUE	58,6	55,6	50
FXGB2P08-0,5/3,5-LC	8	8	14,6	22,5	0,5/3,5	BLUE	66,8	63,8	25
FXGB2P08-3/5-LC	8	8	14,6	22,5	3/5	RED	66,8	63,8	25
FXGB2P1007-2/4-LC	10	7	19,0	22,5	2/4	RED	70,2	67,2	25
FXGB2P10-0,5/3-LC	10	10	19,0	27,0	0,5/3	BLUE	75,0	71,0	20
FXGB2P10-3/6-LC	10	10	19,0	27,0	3/6	RED	75,0	71,0	20
FXGB2P10-6/8-LC	10	10	19,0	27,0	6/8	YELLOW	75,0	71,0	20
FXGB2P12-3/6-LC	12	12	21,5	30,5	3/6	RED	79,3	74,8	20
FXGB2P12-6/8-LC	12	12	21,5	30,5	6/8	YELLOW	79,3	74,8	20
FXGB2P12-8/10-LC	12	12	21,5	30,5	8/10	GREEN	79,3	74,8	20
FXGB2P14-3/6-LC	14	14	23,0	31,5	3/6	RED	82,0	77	15
FXGB2P14-6/8-LC	14	14	23,0	31,5	6/8	YELLOW	82,0	77	15
FXGB2P14-8/10-LC	14	14	23,0	31,5	8/10	GREEN	82,0	77	15
FXGB2P16-6/8-LC	16	16	26,0	35,0	6/8	YELLOW	89,4	82,4	10
FXGB2P16-8/10-LC	16	16	26,0	35,0	8/10	GREEN	89,4	82,4	10
FXGB2P16-10/12-LC	16	16	26,0	35,0	10/12	BLACK	89,4	82,4	10

**FXGB1P**

Gas Blocks single push-in system

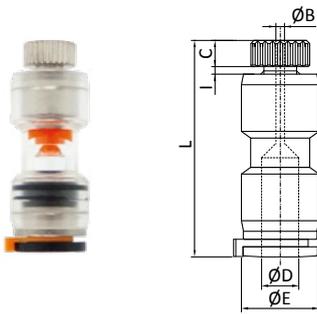


CODE	ØD (mm)	ØE1 (mm)	ØE2 (mm)	FIBRE CABLE SIZE RANGE (mm)	CABLE SEAL COLOR	L open (mm)	L closed (mm)	Q.TY
FXGB1P05-0,5/3,5-LC	5	14,6	18,0	0,5/3,5	BLUE	35,0	32,5	100
FXGB1P07-0,5/3,5-LC	7	14,6	18,0	0,5/3,5	BLUE	35,6	33,1	100
FXGB1P07-2,6/4-LC	7	14,6	18,0	2,6/4	RED	35,6	33,1	100
FXGB1P07-3/5-LC	7	14,6	18,0	3/5	RED	35,6	33,1	100
FXGB1P08-0,5/3,5-LC	8	14,6	18,0	0,5/3,5	BLUE	35,6	33,1	100
FXGB1P10-0,5/3-LC	10	19,0	22,5	0,5/3	BLUE	42,5	38,5	25
FXGB1P10-3/6-LC	10	19,0	22,5	3/6	RED	42,5	38,5	25
FXGB1P10-6/8-LC	10	19,0	22,5	6/8	YELLOW	42,5	38,5	25
FXGB1P12-3/6-LC	12	21,5	25,0	3/6	RED	46,7	42,2	25
FXGB1P12-6/8-LC	12	21,5	25,0	6/8	YELLOW	46,7	42,2	25
FXGB1P12-8/10-LC	12	21,5	25,0	8/10	GREEN	46,7	42,2	25
FXGB1P14-3/6-LC	14	23,0	27,0	3/6	RED	47,7	42,7	25
FXGB1P14-6/8-LC	14	23,0	27,0	6/8	YELLOW	47,7	42,7	25
FXGB1P14-8/10-LC	14	23,0	27,0	8/10	GREEN	47,7	42,7	25
FXGB1P16-6/8-LC	16	26,0	30,0	6/8	YELLOW	55,2	48,2	20
FXGB1P16-8/10-LC	16	26,0	30,0	8/10	GREEN	55,2	48,2	20
FXGB1P16-10/12-LC	16	26,0	30,0	10/12	BLACK	55,2	48,2	20



## FXGB1P-BR

Gas Block compact single push-in system with brass compression nut

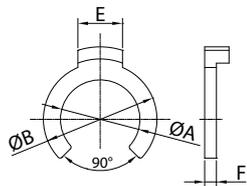


CODE	ØD (mm)	ØE (mm)	ØB (mm)	I (mm)	C (mm)	L (mm)	FIBRE CABLE SIZE RANGE (mm)	CABLE SEAL COLOR	Q.TY
FXGB1P05-0,5/1,5-BR-LC	5	13,0	2,0	2,0	4,0	36,9	1,5	RED	50



## FXLC

## Safety locking clips



CODE	ØA (mm)	ØB (mm)	E (mm)	F (mm)	Q.TY
FXLC03/04	5,6	10,0	5,5	1,0	2000
FXLC05	6,9	12,0	5,5	0,8	2000
FXLC07	8,8	14,0	5,5	1,4	2000
FXLC08	9,8	14,0	5,5	1,45	2000
FXLC10	12,0	17,5	6,0	1,8	1000
FXLC12	14,9	20,0	6,0	1,5	1000
FXLC14	16,3	22,0	6,0	1,95	500
FXLC15/16	18,3	24,5	6,0	2,0	500

## PZ-G

## Metal tube cutter



CODE	MAX Ø (mm)	BLADE	Q.TY
PZ-G	28	Steel	1

## LM-G

## Spare blade for PZ-G



CODE	Q.TY
LM-G	1

## TT16

## Plastic tube cutter



CODE	MAX Ø (mm)	Q.TY
TT16	16	1

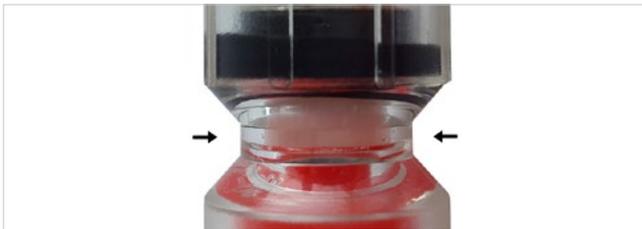


## ASSEMBLY INSTRUCTIONS

We recommend the installer to read and follow all the instructions, precautions and warnings contained in this document before using the products in pressurized systems. Failure to follow all instructions, precautions and warnings may result in bodily harm or property damage. Tierre Group disclaims any responsibility in the case of damages for mis-use of the products.



Make sure that the Microduct external size and the push-in system size of the Gas Block Connector are the same. Check the external diameter of the Microduct (maximum allowed tolerance +/- 0,1 mm). The part of the Microduct that has to be inserted into the Gas Block Connector must be round. The Microduct must be cut square (90° angle) for the part that has to be inserted into the Gas Block Connector, and using the correct tube cutter (PZ-G or TT-16). When necessary, deburr and break off sharp edges of the Microduct end to be inserted into the Gas Block Connector using the correct tool. Make sure that the Microduct used is clean and does not contain any scratches, cracks, cuts or deformities on its surface. Avoid the inlet foreign material into the Gas Block Connector and/or Microduct before and during the installation. Always insert the Microduct correctly aligned with the Gas Block Connector, to ensure the correct assembly.



Make sure that the Microduct is correctly and fully inserted. The transparent body of the Gas Block Connector allows a visual inspection of the correct and full insertion of the Microduct. The insertion of the Microduct into the Gas Block Connector requires a moderate force. The Microduct and the Gas Block Connector seal should not be scratched or damaged during the insertion, otherwise there may be leaks or further mis-functioning. Please, connect the Microduct by hand, without using any kind of tool.



To make sure that the Microduct is properly connected to the Gas Block Connector, please pull it once slightly, without releasing the collet.



If the Gas Block Connector is not pre-fitted with the locking clip or it has been removed, please insert the correct locking clip of the correct dimension after connecting the Microduct. The insertion of the locking clip between the Gas Block Connector main body and the collet avoids any possible Microduct accidental disconnection.



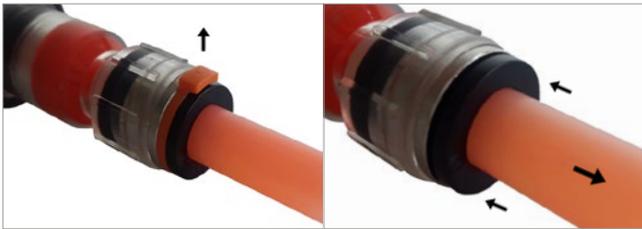
Before the optical fibre cable installation, the Gas Block Connector nut must be completely unscrewed (Open Position). In that position the system is not sealed and the cable can pass through the Gas Block Connector freely.



The Gas Block Connector nut has a mechanical stop to confirm when completely open. Do not force the nut beyond the fully open position to avoid any possible damage to the connector. The nut must be screwed and unscrewed by hand only.



After the cable installation, in order to seal the system and to obtain Gas and Water Block, the nut must be screwed firmly (Closed Position). Do not pull the cable when the Gas Block Connector is in the closed position to prevent possible damage to the gas seal.



In order to disconnect the Microduct from the Gas Block Connector, make sure that the pressure has been completely eliminated from the system before any operation.

Remove the locking clip first, then push the collet in the direction of the body of the Gas Block Connector and pull the Microduct keeping the collet pushed against the Gas Block Connector body in order to disconnect the Microduct.

Gas Blocks Connectors can be reused providing that they are not damaged and correctly working. It is possible to reuse them, but only in case of maintenance. The reuse must be verified and the correct functioning of the whole system has to be carefully checked by the operator. In the case of reuse of a Microduct, the part previously inserted into the Gas Block Connector has to be cut back and the whole line has to be re-verified. It is necessary to follow all the instructions as a precaution, in the same way as the first insertion of the Microduct.

In case of use with lubricants, it is responsibility of the user/customer to previously check the chemical compatibility of the fluid with the construction materials of the Gas Block Connector. Please, contact our technical department if you would like to receive information regarding suggested lubricants.

Do not disassemble or modify the individual products as this may cause product malfunctions, leaks or failure. In any case the tampering, modifications or dismantling of the products invalidates the guarantee.

Do not over-stress the products by rotation, twist, bending, shock, fatigue or other excessive forces. This may damage the fittings and cause malfunctions, leaks or failure. The performance limits of the Gas Block Connector are detailed the NET.Fit catalogues and must be respected during the installation. Do not use the products where ambient temperature and/or fluid temperature and pressure may exceed the limits indicated in our catalogue.

Never press collets towards the body unless you need to separate the Microducts from the Gas Block Connector in an unpressurized line. Please, follow the instructions above.

Tierre Group reserves the right to modify the products from time-to-time when required by quality improvements and by market requirements. The actual products may differ from the pictures and drawings shown in the catalogue.

We recommend to only use NET.Fit accessories when assembling Gas Block Connectors. Using non recommended products could invalidate the guarantee. The customer is responsible for checking the performance of the products after the installation.

While connecting the Microduct, please make sure that it is correctly inserted into the correct Gas Block Connector seat. Please, note that the Microduct may be gripped even if it is not completely inserted into the seat. A Microduct that is not fully inserted may cause failures and leakages. In this case push the Microduct further into the Gas Block Connector in order to be certain that it is completely inserted and check visually to ensure it is in the correct position.





Tierre Group S.p.a.  
 Headquarter: Via Dell'Industria 18 – 20032 Cormano (MI) – Italy  
 Warehouse: Via Dell'Artigianato 2 – 20032 Cormano (MI) – Italy  
 Production: Via Marco Biagi 1 – 25045 Castegnato (BS) – Italy  
 C.F. e P.IVA IT 12437570158 – Capital €120.000,00  
 REA MI-1558390



Phone. +39 02 663088.1 – Fax +39 02 66304172  
 www.tierregroup.com – info@tierregroup.com

### COMPLIANCE DECLARATION

Tierre Group S.p.a. hereby declares that the following items:



In the following series:

Gas Block double push-in system FXGB2P  
 Gas Block single push-in system FXGB1P  
 Gas Block single push-in system FXGB1P-BR

### ARE IN COMPLIANCE WITH

#### EN 50411-2-8

Fibre organisers and closures to be used  
 in optical fibre communication systems -  
 Product specifications -

Part 2-8: Microduct connectors, for air blown optical fibres, Type 1

The items have been tested accordingly to the following standards:

- EN 61300-2-4: Microduct Retention
- EN 61300-2-10: Crush Resistance
- EN 60794-1-2:2003, Method E4: Impact
- EN 61300-2-33: Re.entries
- EN 61300-2-22: Change of Temperature (Cycling)
- EN 50411-2-8, Annex C: High Pressure Resistance (safety)
- EN 50411-2-8, Annex D: Installation Test
- EN 50411-2-8, Annex E: Insertion Force

Cormano, 30th July 2021



TIERRE GROUP S.p.a.

Dott. Marco Regis





Tierre Group S.p.a.  
Headquarter: Via Dell'Industria 18 – 20032 Cormano (MI) – Italy  
Warehouse: Via Dell'Artigianato 2 – 20032 Cormano (MI) – Italy  
Production: Via Marco Biagi 1 – 25045 Castegnato (BS) – Italy  
C.F. e P.IVA IT 12437570158 – Capital €120.000,00  
REA MI-1558390



Phone. +39 02 663088.1 – Fax +39 02 66304172  
www.tierregroup.com – info@tierregroup.com

## DEGREE OF PROTECTION DECLARATION

Tierre Group S.p.a. hereby declares that the following items:



In the following series:

Gas Block double push-in system FXGB2P  
Gas Block single push-in system FXGB1P  
Gas Block single push-in system FXGB1P-BR

Have been tested accordingly to the following standard:

**EN 60529**

Degrees of protection provided by enclosures (IP Code)

And PASSED all the tests in order to obtain the following degree of protection:

# IP 68

Cormano, 30th July 2021



TIERRE GROUP S.p.a.

Dott. Marco Regis





Tierre Group S.p.a.  
Headquarter: Via Dell'Industria 18 – 20032 Cormano (MI) – Italy  
Warehouse: Via Dell'Artigianato 2 – 20032 Cormano (MI) – Italy  
Production: Via Marco Biagi 1 – 25045 Castegnato (BS) – Italy  
C.F. e P.IVA IT 12437570158 – Capital €120.000,00  
REA MI-1558390



Phone. +39 02 663088.1 – Fax +39 02 66304172  
www.tierregroup.com – info@tierregroup.com

### FIRE RESISTANCE DECLARATION

Tierre Group S.p.a. hereby declares that the following items:



In the following series:

- Gas Block double push-in system FXGB2P
- Gas Block single push-in system FXGB1P
- Gas Block single push-in system FXGB1P-BR

Have been tested accordingly to the following standard:

#### EN 61386-22

Conduit systems for cable management  
Part 22: Particular requirements - Pliable conduit systems

And PASSED\* the

**glow-wire tests carried out at 750°C**

Cormano, 30th July 2021



TIERRE GROUP S.p.a.

Dott. Marco Regis







[www.net-fit.it](http://www.net-fit.it) [info@net-fit.it](mailto:info@net-fit.it)





**Tierre Group S.p.a.**

via dell'Industria, 18 - 20032 Cormano (MI)

Tel. +39 02 663088.1 - Fax +39 02 66304172

[www.tierregroup.com](http://www.tierregroup.com) - [info@tierregroup.com](mailto:info@tierregroup.com)

C.F. e P.IVA 12437570158

Cap. Soc. Euro 120.000,00 i.v. - REA MI-1558390

Net.Fit Gas Block Catalogue - Ed. 2.7 - 03/23