







NET.Fit® 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 LOCKING CLIPS supplied as standard to prevent microducts being accidently disconnected

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





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 clip



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**

LEGEND

: New code

NET.Fit Gas Block fittings and accessories have been designed by Tierre Group in order to be used for FTTH 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

Bar 1

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



Lock Claw: Stainless Steel Cable Seal: Silicon

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 directive 1907/2006



Products in compliance with the directive EU 2015/863

CONSTRUCTION DETAILS

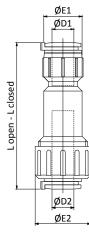




FXGB2P

Gas Block double push-in system



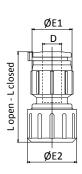


	CODE	ØD1 (mm)	ØD2 (mm)	ØE1 (mm)	ØE2 (mm)	FIBRE CABLE SIZE RANGE (mm)	CABLE SEAL COLOR	L open (mm)	L closed (mm)	Q.TY
N	FXGB2P04-0,5/2,5-LC	4	4	11,0	17,5	0,5/2,5	BLUE	53,0	50,0	50
	FXGB2P05-0,5/3,5-LC	5	5	13,0	20,5	0,5/3,5	BLUE	55,9	52,9	50
	FXGB2P0705-0,5/3,5-LC	7	5	14,6	20,5	0,5/3,5	BLUE	58,6	55,6	50
	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
N	FXGB2P0805-0,5/3,5-LC	8	5	14,6	20,5	0,5/3,5	BLUE	58,6	55,6	50
	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
N	FXGB2P16-8/10-LC	16	16	26,0	35,0	8/10	GREEN	89,4	82,4	10
N	FXGB2P16-10/12-LC	16	16	26,0	35,0	10/12	BLACK	89,4	82,4	10

FXGB1P

Gas Block single push-in system



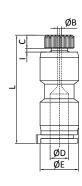


	CODE	ØD (mm)	ØE1 (mm)	ØE2 (mm)	FIBRE CABLE SIZE RANGE (mm)	CABLE SEAL COLOR	L open (mm)	L closed (mm)	Q.TY
	FXGB1P07-0,5/3-LC	7	14,6	18,0	0,5/3	BLUE	35,6	33,1	100
-	FXGB1P07-2,6/4-LC	7	14,6	18,0	2,6/4	RED	35,6	33,1	100
	FXGB1P07-3/5-LC	7	14,6	18,0	3/5	RED	35,6	33,1	100
	FXGB1P10-0,5/3-LC	10	19,0	22,5	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
N	FXGB1P16-8/10-LC	16	26,0	30,0	8/10	GREEN	55,2	48,2	20



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

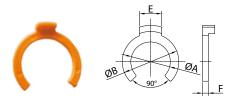




CODE	ØD (mm)	ØE (mm)	ØB (mm)	l (mm)	C (mm)	L (mm)	FIBRE CABLE SIZE RANGE (mm)	CABLE SEAL COLOR	Q.TY
FXGB1P05-0,5/1,5-BR-LC	5	13,0	2,0	2,0	4,0	36,9	1,5	RED	50



FXLC Safety locking clip



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
N	PZ-G	28	Steel	1

LM-G Spare blade for PZ-G



	CODE	Q.TY
N	LM-G	1

TT16 Plastic tube cutter



	CODE MAX Ø (mm)		Q.TY
N	TT16	16	1

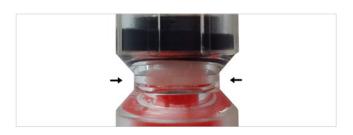


ASSEMBLY INSTRUCTION

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 (maxmum allowed tollerance +/- 0,1 mm). The part of the Microduct that is 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. 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 possibile 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.





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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: Crusch 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, 15th February 2019





Doct. Marco Regis





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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, 15th February 2019



TIERRE GROUP S.p.a.

Marco Regis





Tierre Group S.p.a.

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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, 15th February 2019



TIERRE GROUP S.p.a.

* This declaration does not cover the plastic COMPRESSION NUT of the Gas Blocks



NOTES









Tierre Group S.p.a.

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