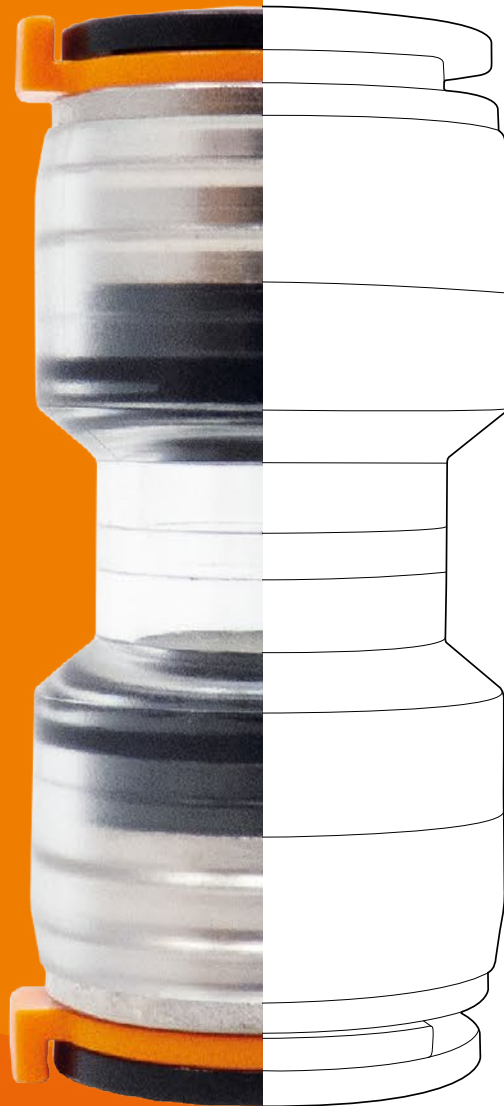
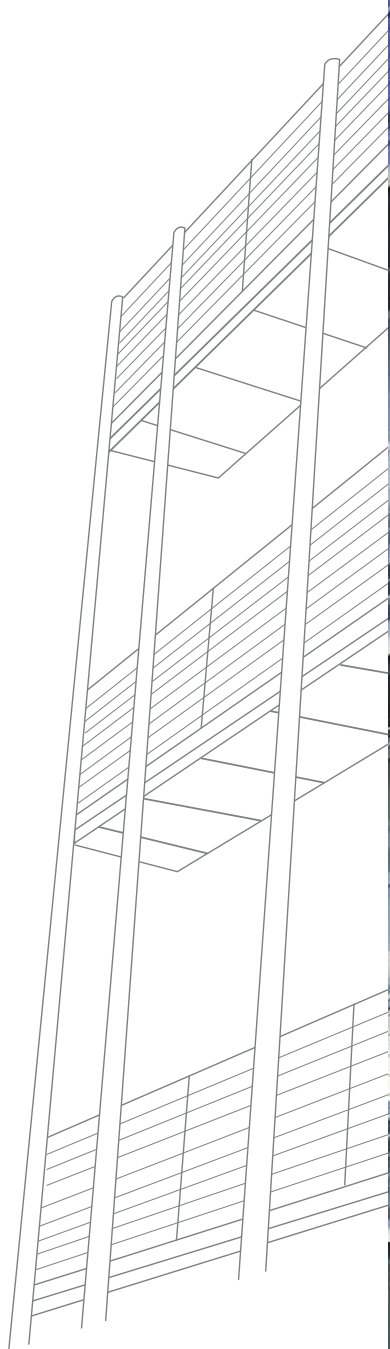




25
anniversary







 **TierreGroup**®

 **TierreFittings**®

 **F-Line.PRO**

 **NET.Fit**®

 **INOX.Fit**®



NET.Fit[®]

PLUS

The union connectors have an internal profile design that allows them **NOT TO BE AFFECTED BY THE INTERNAL DIAMETER OF THE DUCT GUARANTEEING AN UN-OBSTRUCTED PASSAGE OF THE BLOWN FIBRES** without any obstacles

METAL CARTRIDGE (corrosion resistant) inserted into the plastic body to substantially improve resistance to compression & impact forces in accordance with IEC 61386-24

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

ANTI-SHOCK COVER available in order to offer additional protection in more aggressive installation locations, the special bespoke design still allows for visual inspection of the correct microduct insertion, the cover also includes the safety clip locking function

TESTED AGAINST RED SPIRIT



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



PRODUCTS

Union connectors



p. 7 / **FXUC**

End plugs



p. 7 / **FXPF**

Reduced union connectors



p. 8 / **FXG**

ACCESSORIES

Safety locking clips



p. 9 / **FXLC**

Anti-shock covers



p. 9 / **FXASC**

Metal tube cutter



p. 9 / **PZ-G**

Spare blade for
PZ-G



p. 9 / **LM-G**

Plastic tube cutter



p. 9 / **TT16**



NET.Fit 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, it is the efficient & cost saving solution for blowing optical fibre cables.

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

Back Ring: Techno Polymer

Safety Locking Clip: Techno Polymer

Anti Shock Cover:

Semi-transparent Techno Polymer

EN 50411-2-8: Microduct connectors - specifications

EN 61300-2-1: Vibration (sinusoidal)

EN 61300-2-4: Microduct Retention

EN 61300-2-37: Microduct Bending

EN 61300-2-5: Torsion / Twist

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 61300-2-23:1997, Method 2:

Water Immersion

EN 61300-2-26: Salt Mist

EN 61300-2-34: Chemical Resistance

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

EN 61386-24: Conduit systems buried underground

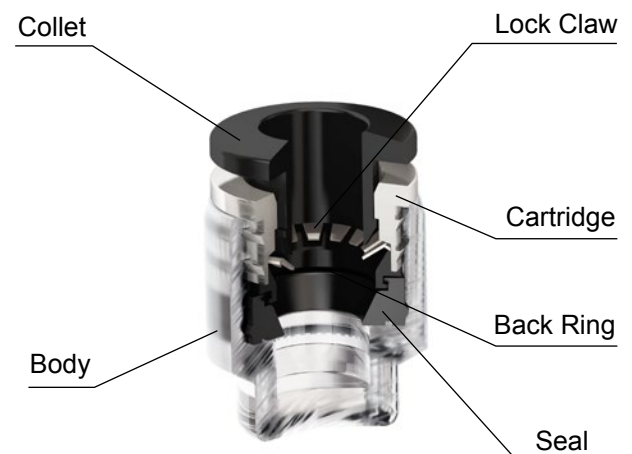
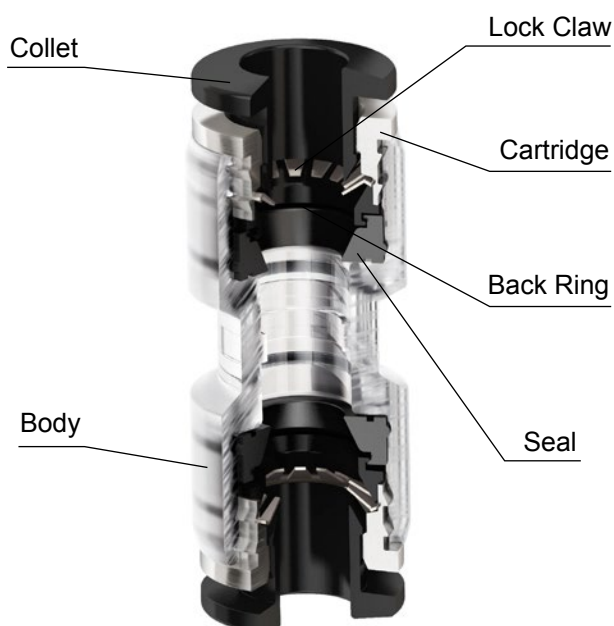


Products in compliance with the regulation EC 1907/2006



Products in compliance with the directive EU 2015/863

CONSTRUCTION DETAILS



FXUC

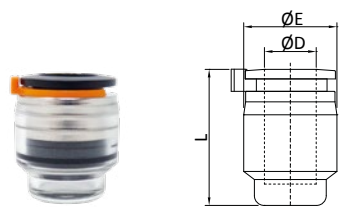
Union connectors



CODE	ØD (mm)	ØA (mm)	ØE (mm)	L (mm)	Q.TY
FXUC03-LC	3	2,5	11,0	32,6	100
FXUC04-LC	4	3,5	11,0	32,6	100
FXUC05-LC	5	4,4	13,0	35,2	100
FXUC06-LC	6	5,3	13,0	35,2	100
FXUC07-LC	7	6,1	14,6	39,1	100
FXUC08-LC	8	7,1	14,6	39,1	100
FXUC10-LC	10	9,3	19,0	48,4	50
FXUC12-LC	12	11,0	21,5	49,2	25
FXUC14-LC	14	13,0	23,0	49,4	25
FXUC15-LC	15	14,0	26,0	51,0	25
FXUC16-LC	16	14,0	26,0	51,0	25
FXUC18-LC	18	17,0	29,0	57,4	15
FXUC20-LC	20	19,0	31,0	58,4	15

FXPF

End plugs

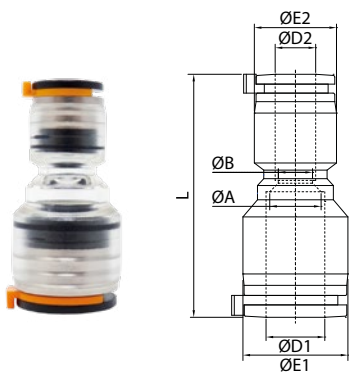


CODE	ØD (mm)	ØE (mm)	L (mm)	Q.TY
FXPF04-LC	4	11,0	17,5	200
FXPF05-LC	5	13,0	17,5	200
FXPF06-LC	6	13,0	17,5	200
FXPF07-LC	7	14,6	20,8	100
FXPF08-LC	8	14,6	20,8	100
FXPF10-LC	10	19,0	25,3	50
FXPF12-LC	12	21,5	25,6	50
FXPF14-LC	14	23,0	25,7	25
FXPF15-LC	15	26,0	27,0	25
FXPF16-LC	16	26,0	27,0	25
FXPF18-LC	18	29,0	30,2	25
FXPF20-LC	20	31,0	30,7	25

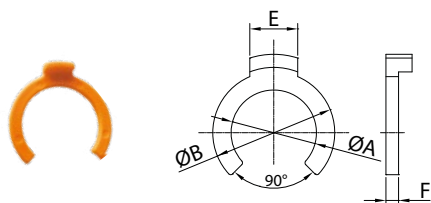


FXG

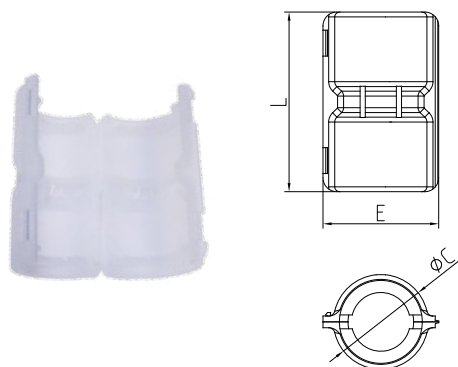
Reduced union connectors



CODE	ØD1 (mm)	ØD2 (mm)	ØE1 (mm)	ØE2 (mm)	ØA (mm)	ØB (mm)	L (mm)	Q.TY
FXG0503-LC	5	3	13,5	11,5	4,3	2,5	33,6	100
FXG0504-LC	5	4	13,5	11,5	4,3	2,5	33,6	100
FXG0604-LC	6	4	13,5	11,5	5,3	2,5	33,6	100
FXG0703-LC	7	3	15,0	11,5	6	2,5	36,3	100
FXG0704-LC	7	4	15,0	11,5	6	2,5	36,3	100
FXG0705-LC	7	5	15,0	13,5	6	4,3	36,5	100
FXG0805-LC	8	5	15,0	13,5	7	4,3	36,5	100
FXG0807-LC	8	7	15,0	15,0	6,5	6,5	39,3	100
FXG1005-LC	10	5	19,0	13,5	9	4,3	43,1	50
FXG1007-LC	10	7	19,0	15,0	9	6	42,6	50
FXG1008-LC	10	8	19,0	15,0	9	6	42,6	50
FXG1207-LC	12	7	21,5	15,0	11	6	44,3	50
FXG1208-LC	12	8	21,5	15,0	11	7	44,3	50
FXG1210-LC	12	10	21,5	19,0	11	9	47,2	50
FXG1407-LC	14	7	23,5	15,0	12	6	44,6	25
FXG1410-LC	14	10	23,5	19,0	12	9	47,7	25
FXG1412-LC	14	12	23,5	21,5	12	11	48,3	25
FXG1612-LC	16	12	26,5	21,5	14	11	50,1	25
FXG1614-LC	16	14	26,5	23,5	14	12	50,6	25

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
FXLC06	7,9	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
FXLC18	21,3	27,5	7,0	1,8	500
FXLC20	22,4	29,5	7,0	2,3	500

FXASC**Anti-shock covers**

CODE	L (mm)	E (mm)	ØC (mm)	Q.TY
FXASC07/08	41,5	25,1	19,0	100
FXASC10	50,0	29,5	23,4	100
FXASC12	52,0	32,0	25,9	100
FXASC14	52,0	33,5	27,4	100
FXASC15/16	53,5	36,5	30,4	100
FXASC20	61,0	41,9	35,6	50

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

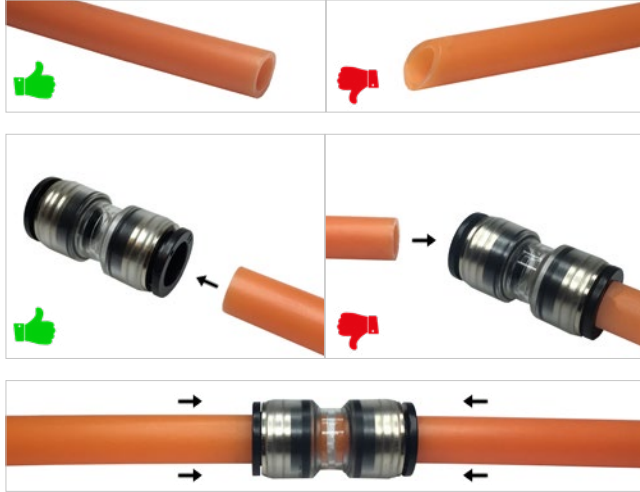
TT16**Plastic tube cutter**

CODE	MAX Ø (mm)	Q.TY
TT16	16	1

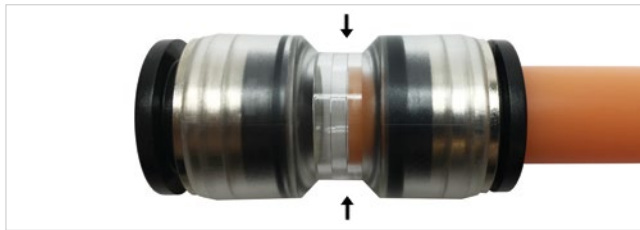


ASSEMBLY INSTRUCTIONS

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 damage for mis-use of the products.



Make sure that the Microduct external size and the push-in system size of the Connector are the same. Check the external diameter of the Microduct (maximum allowed tolerance $\pm 0,1\text{mm}$). The part of the Microduct that has to be inserted into the Connector must be round. The Microduct must be cut square (90° angle) for the part that has to be inserted into the 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 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 of foreign material into the Connector and/or Microduct before and during the installation. Always insert the Microduct correctly aligned with the Connector, to ensure the correct assembly.



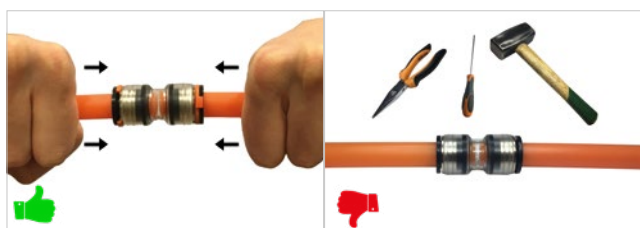
Make sure that the Microduct is correctly and fully inserted. The transparent body of the Connector allows a visual inspection of the correct and full insertion of the Microduct. The insertion of the Microduct into the Connector requires a moderate force. The Microduct and the Connector seal should not 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 Connector, please pull it once slightly, without releasing the collet.



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



All the connection and disconnection operations, including the locking clip installation and removal, have to be performed manually without the use of any kind of tools to prevent damage.





In order to disconnect the Microduct from the 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 Connector and pull the Microduct keeping the collet pushed against the Connector body in order to disconnect the Microduct.

To avoid any possible problem during the blowing process, the Connectors have to be installed in straight sections. The Connectors must not be installed in a microduct that is on a tight bend radius.

NET.Fit 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 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 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, modification 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 Connectors are detailed in 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 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 product may differ from the pictures and drawings shown in the catalogues.

We recommend to only use Net.Fit accessories when assembling 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 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 Connector in order to be certain that it is completely inserted and check visually to ensure it is in the correct position.

It is responsibility of the user to keep the correct traceability of the product. The production code of the items is clearly indicated on the packaging. In case of claim, the correct production code must be communicated to Tierre Group. The failure to communicate the production code will invalidate the guarantee.





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:

Union Connectors FXUC
 End Plugs FXPF
 Reduced Union Connectors FXG

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 61300-2-1: Vibration (sinusoidal)
 EN 61300-2-4: Microduct Retention
 EN 61300-2-37: Microduct Bending
 EN 61300-2-5: Torsion/Twist
 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 61300-2-23:1997, Method 2: Water Immersion
 EN 61300-2-26: Salt Mist
 EN 61300-2-34: Chemical Resistance
 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, 27th July 2021



TIERRE GROUP S.p.a.

Dott. 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:

Union Connectors FXUC
 End Plugs FXPF
 Reduced Union Connectors FXG

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.
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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:

Union Connectors FXUC
End Plugs FXPF
Reduced Union Connectors FXG

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





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

IMPACT RESISTANCE DECLARATION

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



In the following series:

Union Connectors FXUC
 End Plugs FXPF
 Reduced Union Connectors FXG

Have been tested accordingly to the following standard:

EN 61386-24

Conduit systems for cable management
 Part 24: Particular requirements – Conduit systems buried underground

And PASSED the

IMPACT TEST

performed in accordance with IEC 61386-24:2004 (1st Edition) used in conjunction with IEC 61386-1:2008 (2nd Edition)

Cormano, 30th July 2021



TIERRE GROUP S.p.a.

Dott. Marco Regis





www.net-fit.it info@net-fit.it



Tierre Group S.p.a.

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

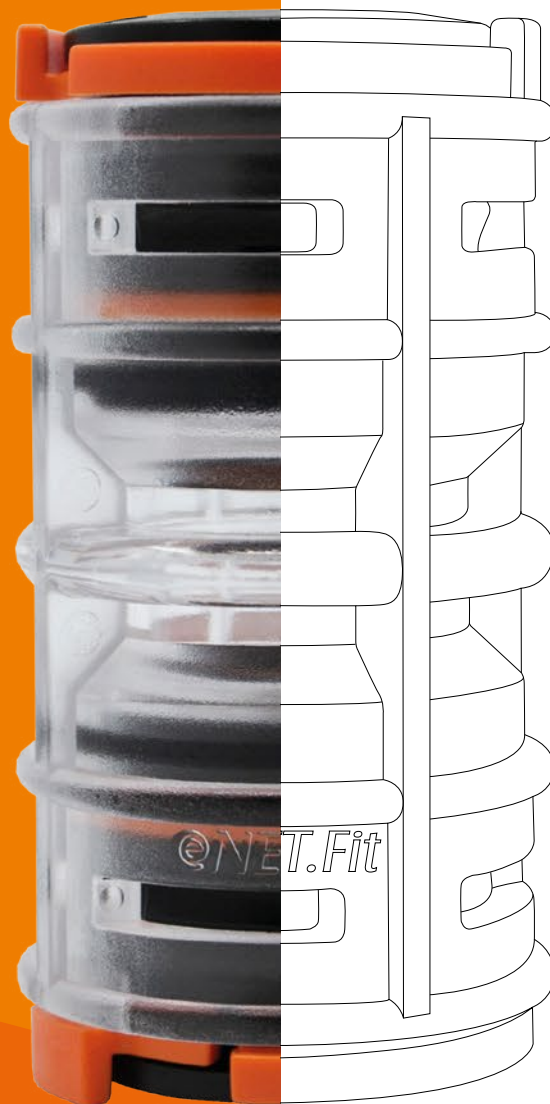
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C.F. e P.IVA 12437570158

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

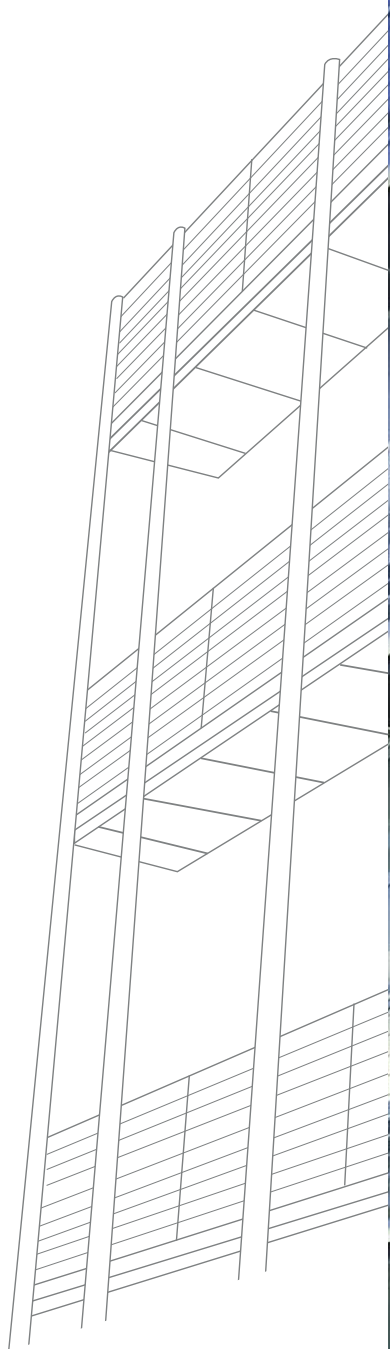
Net.Fit Catalogue - Ed. 2.7 - 03/23



25
anniversary







 **TierreGroup**®

 **TierreFittings**®

 **F-Line.PRO**

 **NET.Fit**®

 **INOX.Fit**®



Evolution
NET.Fit®

PLUS

FULLY PLASTIC CONSTRUCTION

SAFETY PRE-INSTALLED TAMPER-PROOF REUSABLE LOCKING CLIP system, to prevent microducts being accidentally disconnected

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

The union connectors have an internal profile design that allows them **NOT TO BE AFFECTED BY THE INTERNAL DIAMETER OF THE DUCT GUARANTEEING AN UN-OBSTRUCTED PASSAGE OF THE BLOWN FIBRES** without any obstacles

DARK RUBBER COVER available to prevent the ingress of foreign material and to protect from damage

UV RESISTANT when fitted with a dark rubber cover

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

TESTED AGAINST RED SPIRIT



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



PRODUCTS

Union Connectors



p. 7 / **EFXUC**

End Plugs



p. 7 / **EFXPF**

Reduced Union Connectors



p. 8 / **EFXG**

ACCESSORIES

Rubber Covers



p. 8 / **EFXRC**

Metal tube cutter



p. 9 / **PZ-G**

Spare blade for
PZ-G



p. 9 / **LM-G**

Plastic tube cutter



p. 9 / **TT16**



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

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



-20°C ÷ +50°C



Working Pressure:

1.5 Bar

Short term blowing pressure (10''):

25 Bar

Burst pressure (all diameters):
accordingly to EN50411-2-8



Air



Body: Transparent HP Polymer

Cartridge: Techno Polymer

Collet: Techno Polymer

Seal: NBR

Lock Claw: Stainless Steel

Support Ring: Techno Polymer

Rubber Cover: Dark Silicon

Tamper-Proof Locking Clip:

Techno Polymer

EN 50411-2-8: Microduct connectors - specifications

EN 61300-2-1: Vibration (sinusoidal)

EN 61300-2-4: Microduct Retention

EN 61300-2-37: Microduct Bending

EN 61300-2-5: Torsion / Twist

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EN 61300-2-26: Salt Mist

EN 61300-2-34: Chemical Resistance

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

EN 61386-24: Conduit systems buried underground

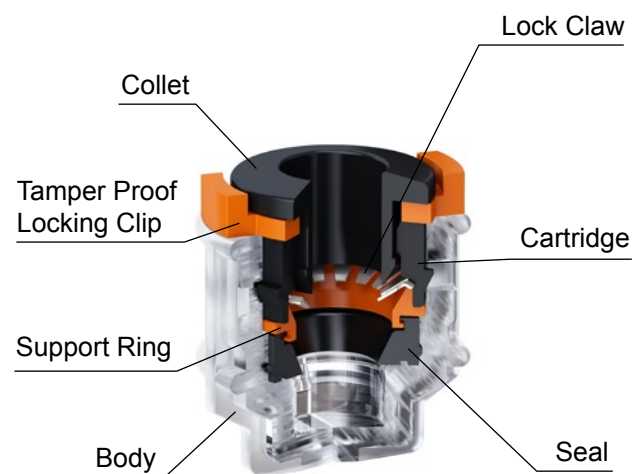


Products in compliance with the regulation EC 1907/2006



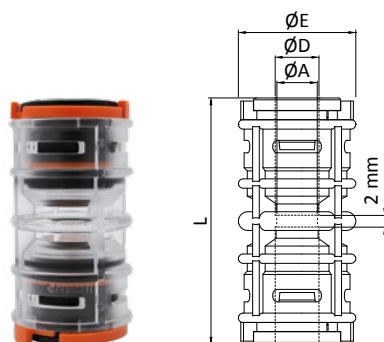
Products in compliance with the directive EU 2015/863

CONSTRUCTION DETAILS



EFXUC

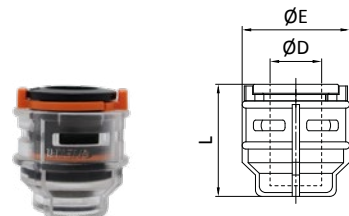
Union Connectors



CODE	ØD (mm)	ØE (mm)	ØA (mm)	L (mm)	Q.TY
EFXUC03	3	14,0	2,5	33,0	100
EFXUC04	4	14,0	3,0	33,0	100
EFXUC05	5	16,8	4,3	35,2	100
EFXUC06	6	16,8	5,3	35,2	100
EFXUC07	7	18,8	6,1	39,1	100
EFXUC08	8	18,8	6,1	39,1	100
EFXUC8.5	8,5	19,3	7,0	39,6	100
EFXUC10	10	22,2	9,3	46,4	100
EFXUC12	12	25,0	11,0	49,2	100
EFXUC12.7	12,7	25,0	11,0	48,8	100
EFXUC14	14	26,7	13,0	50,2	100
EFXUC16	16	29,2	15,0	55,6	100
EFXUC18	18	32,0	17,0	59,1	50
EFXUC20	20	34,0	19,0	62,0	50
EFXUC25	25	41,2	24,0	71,0	50

EFXPF

End Plugs

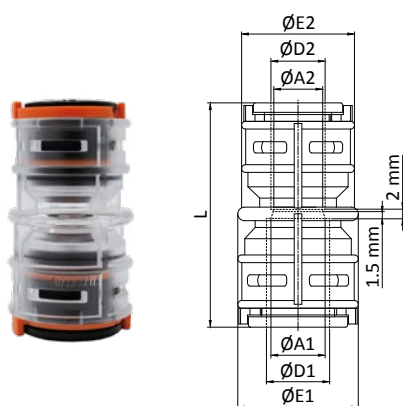


CODE	ØD (mm)	ØE (mm)	L (mm)	Q.TY
EFXPF03	3	14,0	18,3	100
EFXPF04	4	14,0	18,3	100
EFXPF05	5	16,8	19,5	100
EFXPF06	6	16,8	19,5	100
EFXPF07	7	18,8	21,5	100
EFXPF08	8	18,8	21,5	100
EFXPF8.5	8,5	19,3	21,5	100
EFXPF10	10	22,2	25,1	100
EFXPF12	12	25,0	26,3	100
EFXPF12.7	12,7	25,0	26,3	100
EFXPF14	14	26,7	27,0	100
EFXPF16	16	29,2	29,9	100
EFXPF18	18	32,0	31,5	50
EFXPF20	20	34,0	33,0	50
EFXPF25	25	41,2	37,5	50



EFXG

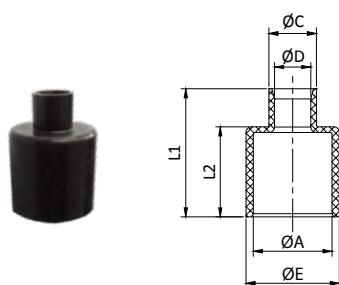
Reduced Union Connectors



CODE	ØD1 (mm)	ØD2 (mm)	ØE1 (mm)	ØE2 (mm)	ØA1 (mm)	ØA2 (mm)	L (mm)	Q.TY
EFXG0704	7	4	18,8	14,0	6,1	3,0	36,2	100
EFXG0705	7	5	18,8	16,8	6,1	4,3	37,4	100
EFXG0706	7	6	18,8	16,8	6,1	5,3	37,4	100
EFXG0805	8	5	18,8	16,8	6,1	4,3	37,4	100
EFXG0806	8	6	18,8	16,8	6,1	5,3	37,4	100
EFXG0807	8	7	18,8	18,8	6,1	6,1	39,1	100
EFXG1007	10	7	22,2	18,8	9,3	6,1	43,0	100
EFXG1008	10	8	22,2	18,8	9,3	6,1	43,0	100
EFXG1207	12	7	25,0	18,8	11,0	6,1	44,2	100
EFXG1208	12	8	25,0	18,8	11,0	6,1	44,2	100
EFXG1210	12	10	25,0	22,2	11,0	9,3	47,6	100
EFXG1407	14	7	26,7	18,8	12,0	6,1	45,1	100
EFXG1408	14	8	26,7	18,8	12,0	6,1	45,1	100
EFXG1410	14	10	26,7	22,2	12,0	9,3	48,3	100
EFXG1412	14	12	26,7	25,0	12,0	11,0	49,7	100
EFXG1612	16	12	29,2	25,0	15,0	11,0	52,3	100
EFXG1614	16	14	29,2	26,7	15,0	13,0	53,1	100
EFXG1814	18	14	32,0	26,7	16,0	12,0	54,4	100
EFXG2014	20	14	34,0	26,7	19,0	13,0	56,3	50
EFXG2016	20	16	34,0	29,2	19,0	15,0	59,1	50

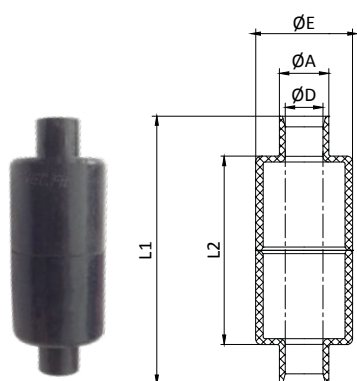
EFXRC

Rubber Covers



CODE	ØD (mm)	ØA (mm)	ØE (mm)	ØC (mm)	L1 (mm)	L2 (mm)	Q.TY
EFXRC03/04	3,0	14,3	18,3	6,1	22,6	18,1	100
EFXRC05/06	5,0	16,3	20,3	8,1	25,7	19,2	100
EFXRC07/08	7,0	18,3	22,3	10,1	29,6	21,1	100
EFXRC10	10,0	21,7	25,7	13,1	35,3	24,8	100
EFXRC12	12,0	24,5	28,5	15,1	38,7	26,2	100
EFXRC14	14,0	26,2	30,2	17,1	41,2	26,7	100

Dimensions for union connectors with dark rubber cover mounted



CODE	ØD (mm)	ØA (mm)	ØE (mm)	L1 (mm)	L2 (mm)
EFXRC03/04	3,0	6,1	18,3	45,2	36,2
EFXRC05/06	5,0	8,1	20,3	51,4	38,4
EFXRC07/08	7,0	10,1	22,3	59,2	42,2
EFXRC10	10,0	13,1	25,7	70,6	49,6
EFXRC12	12,0	15,1	28,5	77,4	52,4
EFXRC14	14,0	17,1	30,2	82,4	53,4

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 damage for mis-use of the products.



Make sure that the Microduct external size and the push-in system size of the Connector are the same. Check the external diameter of the Microduct (maximum allowed tolerance $\pm 0,1\text{mm}$). The part of the Microduct that has to be inserted into the Connector must be round. The Microduct must be cut square (90° angle) for the part that has to be inserted into the 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 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 of foreign material into the Connector and/or Microduct before and during the installation. Always insert the Microduct correctly aligned with the Connector, to ensure the correct assembly.



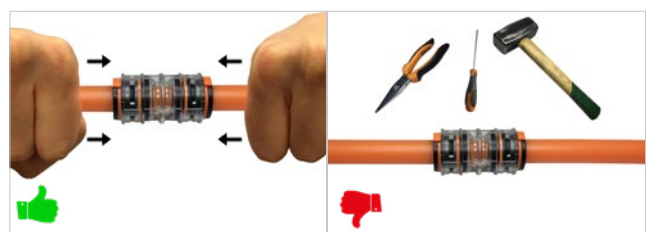
Make sure that the Microduct is correctly and fully inserted. The transparent body of the Connector allows a visual inspection of the correct and full insertion of the Microduct. The insertion of the Microduct into the Connector requires a moderate force. The Microduct and the Connector seal should not 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 Connector, please pull it once slightly, without releasing the collet.



The Evolution NET.Fit products are pre-fitted with tamper proof locking clips as standard. If they have been removed, please replace with the correct locking clip after connecting the Microduct. The insertion of the locking clip between the Connector main body and the collet avoids any possible Microduct accidental disconnection.



All the connection and disconnection operations, including the locking clip installation and removal, have to be performed manually without the use of any kind of tools to prevent damage.





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

Remove the locking clip first (if it is the first time the locking clip is removed, a small part of it will be broken in order to identify the removal), then push the collet in the direction of the body of the Connector and pull the Microduct keeping the collet pushed against the Connector body in order to disconnect the Microduct.

To avoid any possible problem during the blowing process, the Connectors have to be installed in straight sections. The Connectors must not be installed in a Microduct that is on a tight bend radius.

Evolution NET.Fit 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 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 precautions, 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 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, modification 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 Connectors are detailed in the Evolution 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 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 product may differ from the pictures and drawings shown in the catalogues.

We recommend to only use Evolution Net.Fit accessories when assembling 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 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 Connector in order to be certain that it is completely inserted and check visually that it is in the correct position.

It is responsibility of the user to keep the correct traceability of the product. The production code of the items is clearly indicated on the packaging. In the case of a claim, the correct production code must be communicated to Tierre Group. The failure to communicate the production code will invalidate the guarantee.





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:

Union Connectors EFXUC
 End Plugs EFXPF
 Reduced Union Connectors EFXG

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 61300-2-1: Vibration (sinusoidal)
 EN 61300-2-4: Microduct Retention
 EN 61300-2-37: Microduct Bending
 EN 61300-2-5: Torsion/Twist
 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 61300-2-23:1997, Method 2: Water Immersion
 EN 61300-2-26: Salt Mist
 EN 61300-2-34: Chemical Resistance
 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, 27th July 2021



TIERRE GROUP S.p.a.

Dott. 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:

Union Connectors EFXUC
End Plugs EFXPF
Reduced Union Connectors EFXG

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





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FIRE RESISTANCE DECLARATION

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



In the following series:

Union Connectors EFXUC
 End Plugs EFXPF
 Reduced Union Connectors EFXG

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, 27th July 2021



TIERRE GROUP S.p.a.

Dott. Marco Regis



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www.tierregroup.com – info@tierregroup.com

IMPACT RESISTANCE DECLARATION

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



In the following series:

Union Connectors EFXUC
End Plugs EFXPF
Reduced Union Connectors EFXG

Have been tested accordingly to the following standard:

EN 61386-24

Conduit systems for cable management
Part 24: Particular requirements – Conduit systems buried underground

And PASSED the

IMPACT TEST

performed in accordance with IEC 61386-24:2004 (1st Edition) used in conjunction with IEC 61386-1:2008 (2nd Edition)

Cormano, 30th July 2021



TIERRE GROUP S.p.a.

Dott. Marco Regis





www.net-fit.it 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 - info@tierregroup.com

C.F. e P.IVA 12437570158

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

Evolution Net.Fit Catalogue - Ed. 2.7 - 03/23

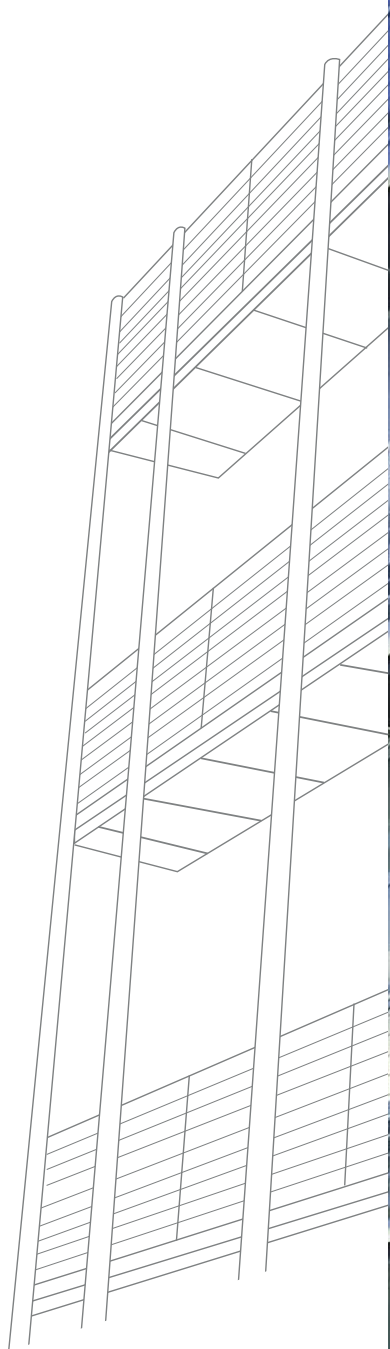
 NET.Fit[®]
Gas Block



25
anniversary

 **TierreGroup[®]**
Unique vision





 **TierreGroup**®

 **TierreFittings**®

 **F-Line.PRO**

 **NET.Fit**®

 **INOX.Fit**®



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 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)

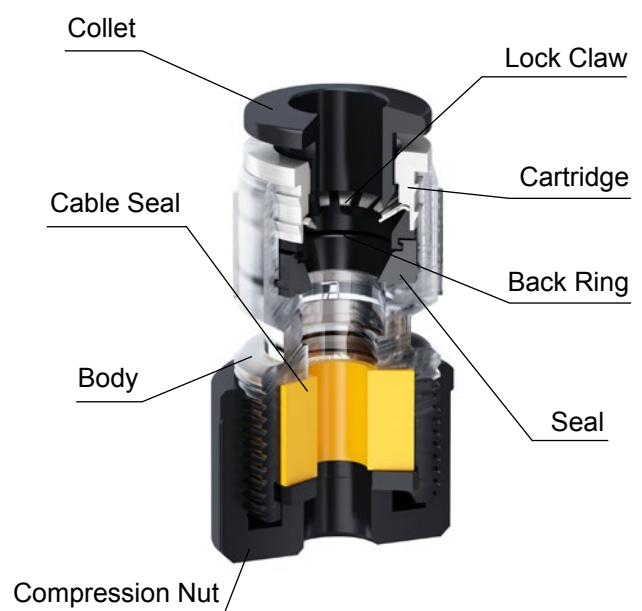
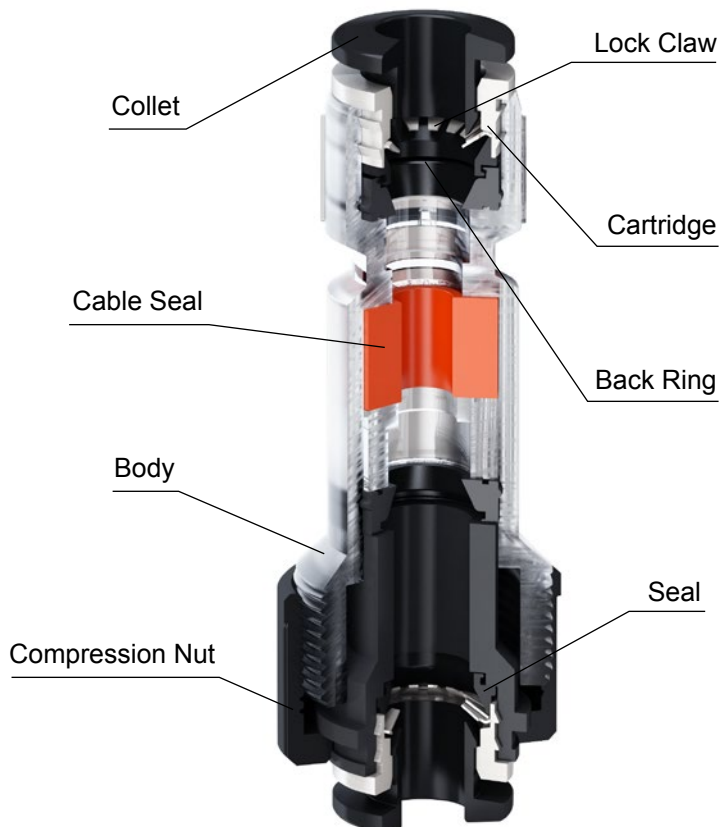


Products in compliance with the regulation EC 1907/2006



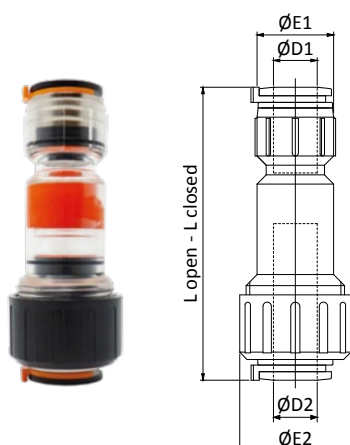
Products in compliance with the directive EU 2015/863

CONSTRUCTION DETAILS



FXGB2P

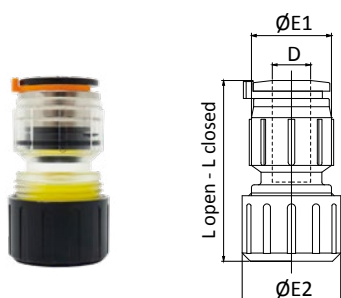
Gas Blocks double push-in system



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

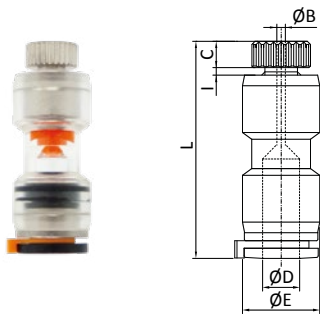


CODE	ØD (mm)	ØE1 (mm)	ØE2 (mm)	FIBRE CABLE SIZE RANGE (mm)	CABLE SEAL COLOR	L open (mm)	L closed (mm)	Q.TY
FXGB1P05-0,5/3,5-LC	5	14,6	18,0	0,5/3,5	BLUE	35,0	32,5	100
FXGB1P07-0,5/3,5-LC	7	14,6	18,0	0,5/3,5	BLUE	35,6	33,1	100
FXGB1P07-2,6/4-LC	7	14,6	18,0	2,6/4	RED	35,6	33,1	100
FXGB1P07-3/5-LC	7	14,6	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

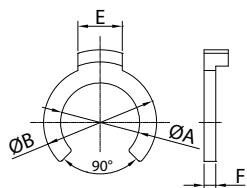


CODE	ØD (mm)	ØE (mm)	ØB (mm)	I (mm)	C (mm)	L (mm)	FIBRE CABLE SIZE RANGE (mm)	CABLE SEAL COLOR	Q.TY
FXGB1P05-0,5/1,5-BR-LC	5	13,0	2,0	2,0	4,0	36,9	1,5	RED	50



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

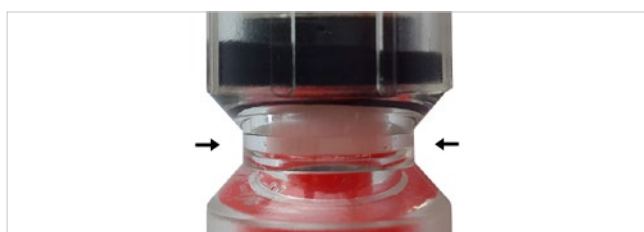


ASSEMBLY INSTRUCTIONS

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 $\pm 0,1$ 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



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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, 30th July 2021



TIERRE GROUP S.p.a.

Dott. Marco Regis





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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, 30th July 2021



TIERRE GROUP S.p.a.

Dott. Marco Regis

NOTES



Lined area for notes, consisting of 25 horizontal lines.





www.net-fit.it info@net-fit.it



Tierre Group S.p.a.

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

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