Evolution

NET.Fit®

TierreGroup®

Evolution NET.Fit®

PLUS

FULLY PLASTIC CONSTRUCTION

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

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

Union connectors have an internal profile design that allow them **NOT TO BE AFFECTED BY THE INTERNAL DIAMETER OF THE DUCT** and **ALLOWS AN UN-OBSTRUCTED PASSAGE FOR 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

MEMBER OF Fibre to the Home Council Europe

Evolution NET.Fit fittings and accessories have been designed by Tierre Group in order to be used for FTTH 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:
15 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 61300-2-4: 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 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

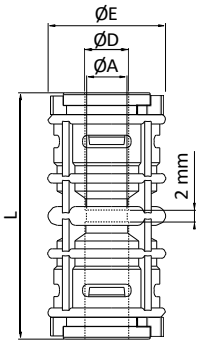
REACH COMPLIANT — Products in compliance with the directive 1907/2006

RoHS3 — Products in compliance with the directive EU 2015/863

CONSTRUCTION DETAILS

EFXUC

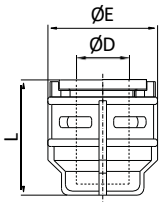
Union Connectors



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

EFXPF

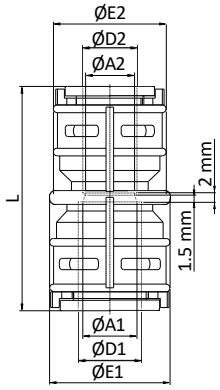
End Plugs



CODE	ØD (mm)	ØE (mm)	L (mm)	Q.TY
EFXPF03	3	14,0	18,3	100
N 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
EFXPF10	10	22,2	25,1	100
EFXPF12	12	25,0	26,3	100
EFXPF14	14	26,7	27,0	100
N EFXPF16	16	29,2	29,9	100
N EFXPF18	18	32,0	31,5	50
N EFXPF20	20	34,0	33,0	50
N 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
N EFXG0704	7	4	18,8	14,0	6,1	3,0	36,2	100
N EFXG0705	7	5	18,8	16,8	6,1	4,3	37,4	100
N EFXG0706	7	6	18,8	16,8	6,1	5,3	37,4	100
N 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
N EFXG1612	16	12	29,2	25,0	15,0	11,0	52,4	100
N EFXG1614	16	14	29,2	26,7	15,0	13,0	53,1	100

ASSEMBLY INSTRUCTIONS

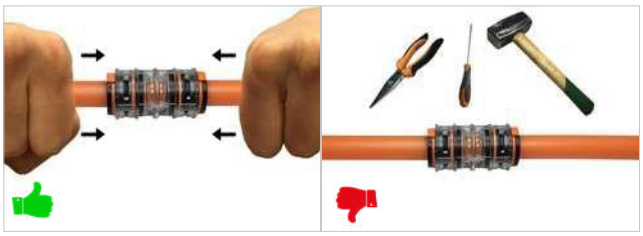
We recommend the installer to read and follow all the instructions, precautions and warnings contained in this document before using the products in pressurized systems. Failure to follow all instructions, precautions and warnings may result in bodily harm or property damage. Tierre Group disclaims any 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 +/- 0,1mm). The part of the Microduct that is 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.

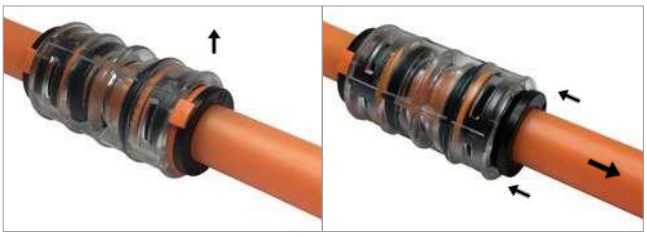
Make sure that the Microduct is correctly and fully inserted. The transparent body of the Connector allows a visual inspection of the correct and full insertion of the Microduct. Insertion of the Microduct into the Connector requires a moderate force. The Microduct and the Connector seal should not be 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 Mircroduct 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.

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M2 rev. 2 – March 2018

COMPLIANCE DECLARATION

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

Evolution NET.Fit®

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 61300-2-4: 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 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 D: Installation Test
EN 50411-2-8, Annex E: Insertion Force

Cormano, 15th February 2019

MEMBER OF Fibre to the Home Council Europe

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Dott. Marco Regis

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DEGREE OF PROTECTION DECLARATION

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

Evolution NET.Fit®

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, 15th February 2019

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FIRE RESISTANCE DECLARATION

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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, 15th February 2019

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IMPACT RESISTANCE DECLARATION

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

Evolution NET.Fit®

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, 15th February 2019

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