

 **TierreGroup**®

 **NET.Fit**®

 **TierreFittings**®

 **INOX.Fit**®

 **F-Line**®



NET.Fit[®]

PLUS

Union connectors with internal shape designed in order **NOT TO BE AFFECTED BY THE INTERNAL DIAMETER OF THE DUCT** and **ALLOW THE FIBRES BLOWING** without any problem

METAL CARTRIDGE (corrosion resistant) inserted into plastic body to highly improve resistance to compression & impact (IEC 61386-24)

FULLY TRASPARENT (clear) body for perfect visual inspection for correct tube insertion

SAFETY LOCKING CLIPS available in order to prevent microducts accidental disconnection

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

ANTI SHOCK COVER available in order to prevent unexpected damages and improve the resistance feeling. Its special design allow inspection of correct installation of the cable also when installed. Safety locking clip function included



PRODUCTS



p. 7 / **FXUC**



p. 7 / **FXPF**



p. 7 / **FXG**

ACCESSORIES



p. 8 / **FXLC**

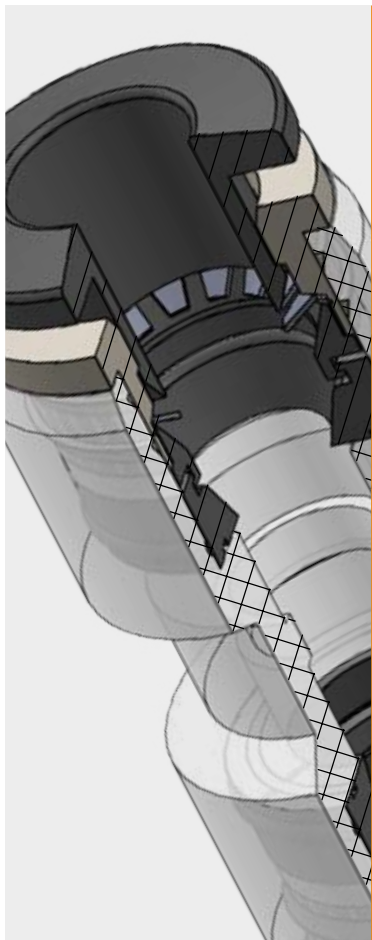


p. 8 / **FXASC**



NET.Fit fittings and accessories have been studied by Tierre Group in order to be used for FTTH applications. NET.Fit is in compliance with the EN 50411-2-8, is the best 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: Technical Polymer

Seal: NBR

Lock Claw: Stainless Steel

Back Ring: Technical Polymer

Safety Locking Clip: Technical Polymer

Anti Shock Cover:

Semitransparent Technical 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 61386-22: Glow wire test at 750°C

EN 61386-24: Conduit systems buried underground

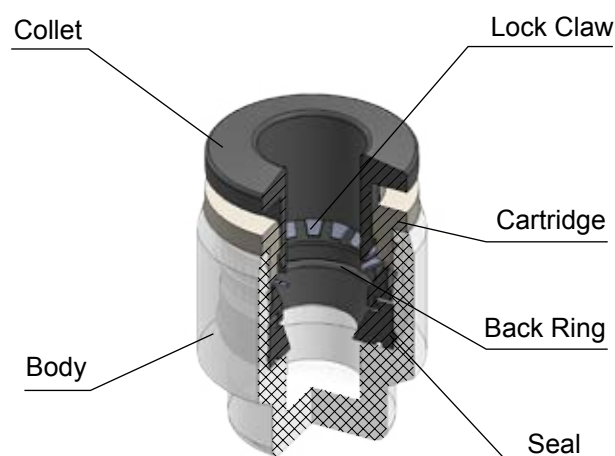
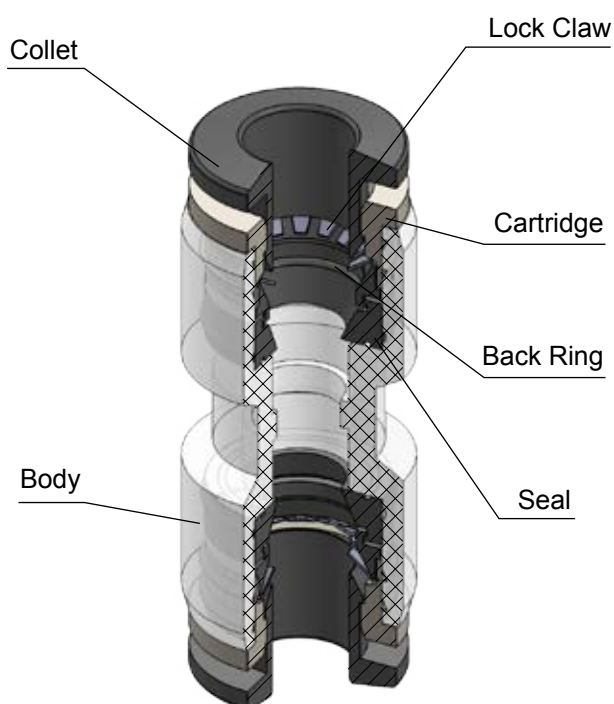


Products in compliance with the directive 2002/95/EC



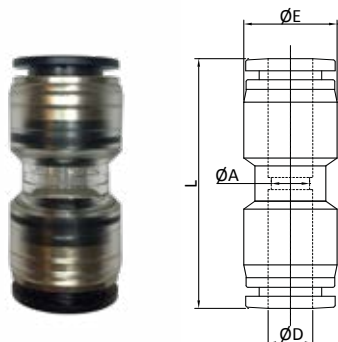
Products in compliance with the directive 2011/65/EU

CONSTRUCTION DETAILS



FXUC

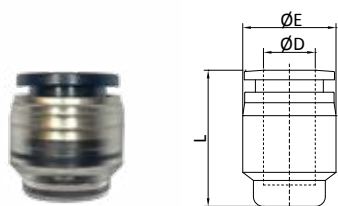
Union Connectors



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

FXPF

End Plugs



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

FXG

Reduced Union Connectors

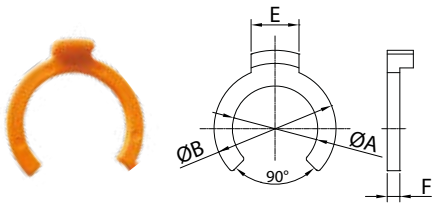


CODE	ØD1 (mm)	ØD2 (mm)	ØE1 (mm)	ØE2 (mm)	ØA (mm)	ØB (mm)	L (mm)	Q.TY
FXG0503	5	3	13,5	11,1	4,3	2,5	33,6	100
FXG0703	7	3	15,0	11,1	6	2,5	36,2	100
FXG0704	7	4	15,0	13,5	6	2,5	36,3	100
FXG0705	7	5	15,0	13,5	6	4,3	36,5	100
FXG0805	8	5	15,0	13,5	7	4,3	36,5	100
FXG0807	8	7	15,0	15,0	6,5	...	39,3	100
FXG1207	12	7	21,5	15,0	11	6	44,3	50
FXG1208	12	8	21,5	15,0	11	7	44,3	50
FXG1210	12	10	21,5	19,0	11	9	47,2	50
FXG1412	14	12	23,5	21,5	12	11	48,3	25



FXLC

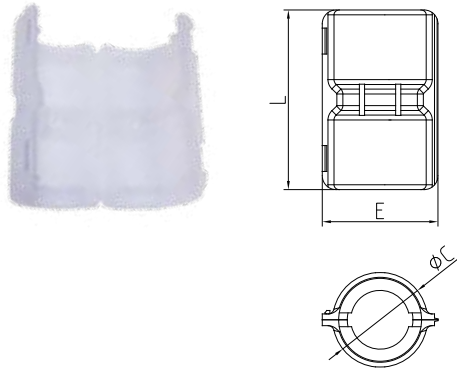
Safety Locking Clips



CODE	ØA (mm)	ØB (mm)	E (mm)	F (mm)	Q.TY
FXLC04	5,6	10,0	5,5	1,0	2000
FXLC05/06	7,9	12,0	5,5	0,8	2000
FXLC07/08	9,8	14,0	5,5	1,45	2000
FXLC10	12,0	17,5	6,0	1,80	1000
FXLC12	14,9	20,0	6,0	1,50	1000
FXLC14	16,3	22,0	6,0	1,95	500
FXLC15/16	18,3	24,5	6,0	2,00	500
FXLC20	22,4	29,5	7,0	2,30	500

FXASC

Anti Shock Covers



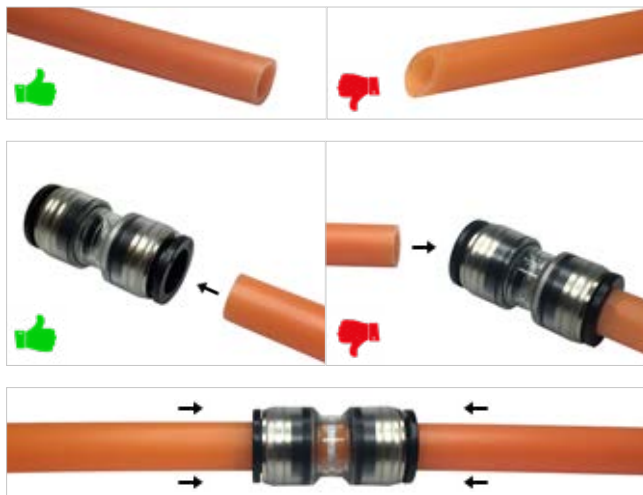
CODE	L (mm)	E (mm)	ØC (mm)	Q.TY
FXASC07/08	41,5	25,1	19,0	100
FXASC10	50,0	29,5	23,4	100
FXASC12	52,0	32,0	25,9	100
FXASC14	52,0	33,5	27,4	100
FXASC15/16	53,5	36,5	30,4	100
FXASC20	61,0	41,9	35,6	50

*
single plastic bag



ASSEMBLING INSTRUCTION

We recommend 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 damages. Tierre Group disclaims any responsibility in case of damages for wrong 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 have to be inserted into the Connector must be round. Cut square (90° angle) the part of the Microduct that has to be inserted into the Connector using the proper tube cutter (PZ-G or TT-16) and, when necessary, deburr and break sharp edges of the Microduct end to be inserted into the Connector use the proper tool. Make sure that the Microduct used is clean and does not present any scratch, crack, cut or deformity on its surface. Avoid the inlet of foreign material into the Connector and/or Microduct before and during the installation. Always insert the Microduct aligned with the Connector.



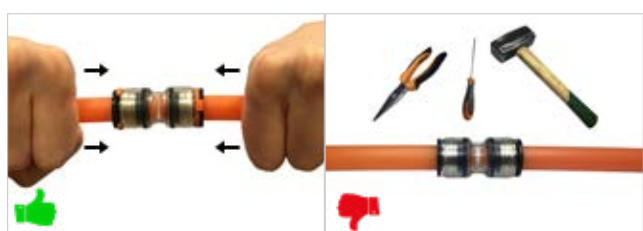
Make sure that the Microduct is correctly and fully inserted. The transparent body of the Connector allows a visual inspection of the correct and full insertion of the Microduct. Insertion of the Microduct into the Connector requires a moderate strain. The Microduct and the Connector seal should not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



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-equipped with the locking clip or if it has been removed, please insert the proper locking clip of the right dimension after connecting the Microduct. The insertion of the locking clip between the Connector main body and the collet avoid any possible Microduct unintended disconnection.



All the connection and disconnection operation, including the locking clip installation and uninstall, have to be done manually without the use of any kind of tool.





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, push the collet in the direction of the body of the Connector and pull the Microduct keeping the collet pushed in order to disconnect it from the Connector.

To avoid any possible problem during the blowing procedures, the Connector have to be installed in straight sections. The installation in Microduct bends has to be avoided.

NET.Fit Connectors can be reused providing that they are not damaged and correctly working. It is possible to reuse them only in case of maintenance. The reuse must be verified and the correct functioning of the whole system have to be carefully checked by the operator. In case of reuse of a Microduct, the part previously inserted into the Connector has to be cut and the whole line has to be verified. It is necessary to follow all the instructions and precautions same as 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 disassembling of the products causes the loss of the guarantee.

Do not over-stress the products by rotation, twist, bending, shock, fatigue or other excess forces. This may damage the fittings and cause malfunctions, leaks or failure. The performance limits of the Connectors are the one indicated 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 assemble Connectors, accessories and other products using items indicated as combinable. The failure in using the recommended products cause the decay of the guarantee. The customer is in charge of checking the performance of the products after the installation.

While connecting the Microduct, please make sure that it is correctly inserted into the proper Connector seat. Please, note that the Microduct may result well gripped even if it is not completely inserted into the seat. This may cause failures and leakages. In this case push the Microduct again into the Connector in order to be sure that it is completely inserted and check visually that it is in the correct position.

It is responsibility of the user to keep the proper traceability of the product. The production lot of the items is clearly indicated on the packaging. In case of claim, the right production lot must be communicated to Tierre Group. The failure to communicate the production lot cause the decay of the guarantee.





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