FCST Communication

Better FTTx, Better Life.



July, 2026

Technical Information

FCST-GB-SC

Water Block Micro Duct Connector

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www.microductcoupler.com

Water Block Micro Duct Connector

This Gas-Water Block Micro Duct Connector is used to prevent the liquid flowing between the connected micro ducts at transformation point. Thus, avoid fluid(gas) entering the micro ducts, and damage the equipment.



- For 5-20 mm Microducts.
- Easy "push-in" installation.
- Crystal clear transparent body.
- Gas- and water tight up to 0,5 bar.
- 95% of the material is made of non-metal.
- Tested in accordance to EN 50411-2-8:2009.
- Rugged design for direct buried and above ground use.

ISO 9001 Reach RoHS IP68

Product Specifications

Construction	Description
Tube To Connector	HDPE Microduct(DB | DI | TW)
Fluid	Air with blowing system
Working Pressure	20 bar
Burst Pressure	25 bar
Estimated Life	25 years
Protection Class	IP68
Sealing	Up to 0.5 bar
Installation Temperature	-45°C to +50°C
Operation Temperature	-40°C to +70°C
Transport and Storage Temperature	-40°C to +70°C
Insertion Force	Size≤12mm,≤ 50 N | Size≥14mm,≤ 120 N
Impact Resistance	1.5J
According To Standards	CEI EN 50411-2-8,EN 50411-2-5,EN61300,EN61753-1,EN60068-2-10,EN60794-1-2:2003

Standards

Construction

EN 60529:IP68

EN 61300-2-26: Salt Mist

EN 61300-2-33: Re-entries

EN 61300-2-10: Crush Resistance

EN 61300-3-1: Visual Appearance

EN 61300-2-4: Microduct Retention

EN 61300- 2-34: Chemical Resistance

EN 50411-2-8:Annex E:Insertion Force

EN 61386-22: Glow Wire Test at 750°C

EN 60794- 1-2: 2003,Method E4:Impact

EN 50411-2-8:Annex D:Installation Test

EN 61300-2-22: Change of Temperature

EN60794-1-2 Method E1. Tensile Strength

EN 61300-2-38: 2006,Method B:Pressure Loss

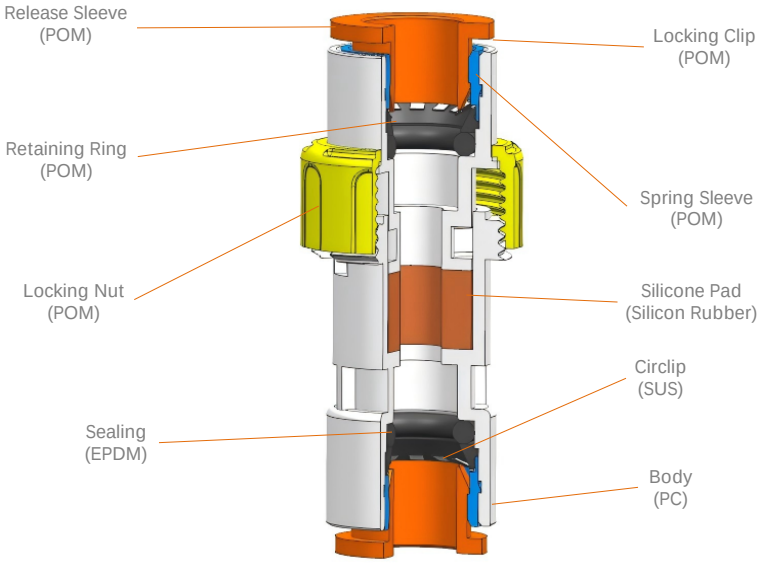
EN 50411-2-8:Annex C: High Pressure Resistance

EN 61300-2-23: 1997,Method 2:Water Immersion

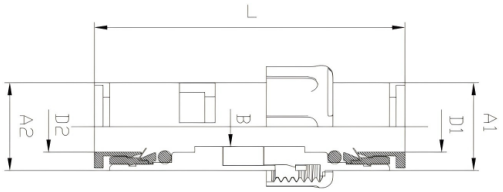
EN 61386- 24: Conduit Systems Buried Underground

EN 61300-2-38:2006, Method A:Sealing Performance

Product Material



Ordering Information



Model	D1 (mm)	D2 (mm)	A1 (mm)	A2 (mm)	B (mm)	L (mm)	Weight (g)	Cable Blocking Range (mm)
GB-SC5	5	5	13.5±0.2	13.5±0.2	2.5±0.12	44.0±0.5	-	0.5~2.1
GB-SC6	6	6	13.5±0.2	13.5±0.2	2.5±0.12	44.0±0.5	-	0.5~2.1
GB-SC7	7	7	15.2±0.2	15.2±0.2	4.0±0.12	50.5±0.5	8.6±0.1	0.9~3.5
GB-SC7	7	7	15.2±0.2	15.2±0.2	4.5±0.12	50.5±0.5	8.6±0.1	0.9~3.5
GB-SC8	8	8	15.2±0.2	15.2±0.2	4.0±0.12	50.5±0.5	8.6±0.1	0.9~3.5
GB-SC8	8	8	15.2±0.2	15.2±0.2	4.5±0.12	50.5±0.5	8.6±0.1	0.9~3.5
GB-SC10	10	10	17.5±0.2	17.5±0.2	8.0±0.12	59.5±0.5	11.6±0.1	3~6/5~8
GB-SC12	12	12	21.5±0.2	21.5±0.2	8.0±0.12	64.5±0.5	18.6±0.1	3~6/5~8
GB-SC14	14	14	23.5±0.2	23.5±0.2	10.0±0.12	69.5±0.5	23.6±0.1	3~6/5~8/7~10
GB-SC16	16	16	25.3±0.2	25.3±0.2	10.0±0.12	73.5±0.5	35.5±0.1	3~6/5~8/7~10
GB-SC18	18	18	32.7±0.3	32.7±0.3	12.0±0.12	76.5±0.5	57.1±0.1	7~10/9~12
GB-SC20	20	20	32.7±0.3	32.7±0.3	13.0±0.12	76.5±0.5	52.6±0.1	8~13/12~16

*Note: For other sizes, please contact the sales department.

Accessories Optional



Locking Clip

Ordering Information



LOGO&Color
(Spring Sleeve、Release Sleeve、Locking Clip)



Packing
(Packing Bag, Inner Box, Outer Box、label)

Related Products



Telecom Manhole Chamber



Divisible Duct Sealing



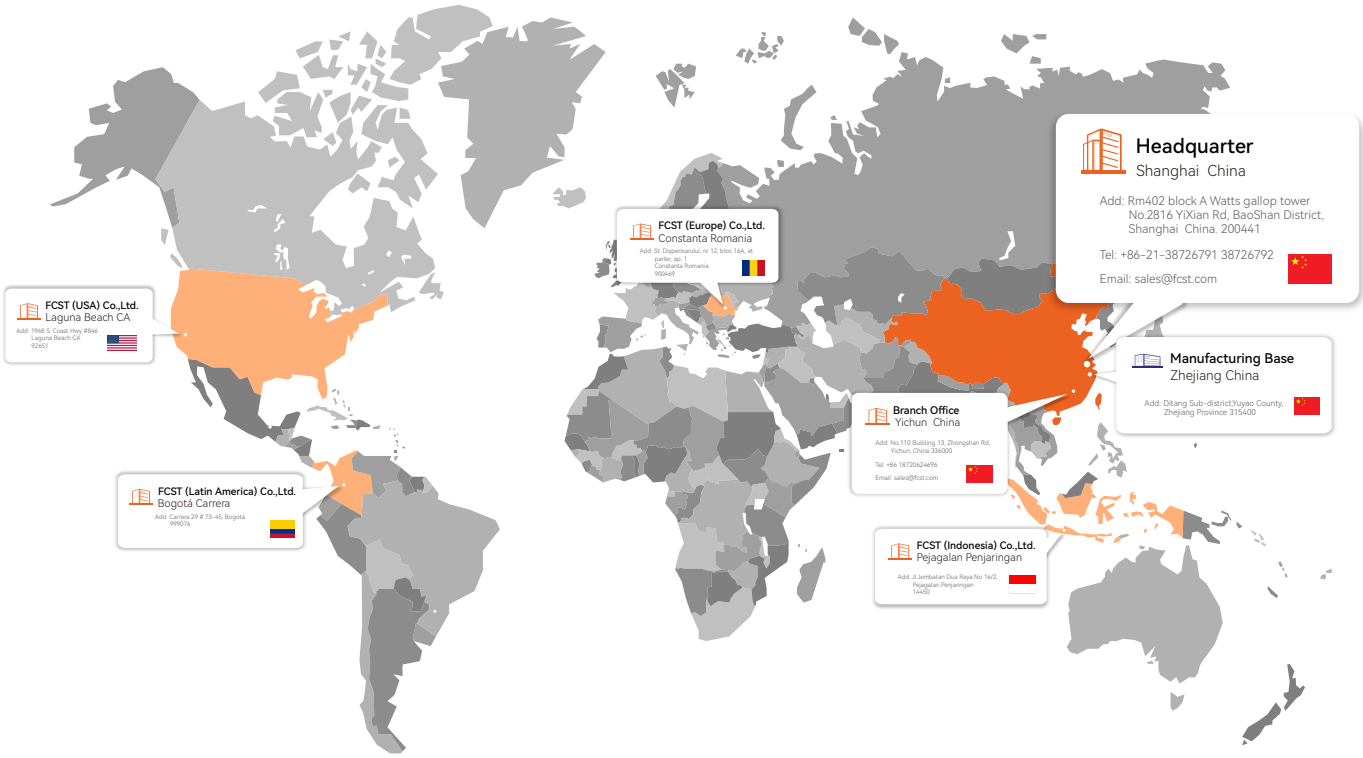
Marker Ball



Fiberblowing Machines

Better FTTx, Better Life.

Fiber Cable Solution Technology Co.,Ltd.



FCST - Better FTTx, Better Life.

At FCST, we manufacture top-quality microduct connectors, microduct closure, telecom manhole chambers and fiber splice boxes since 2003. Our products boast superior resistance to failure, corrosion, and deposits, and are designed for high performance in extreme temperatures. We prioritize sustainability with mechanical couplers and long-lasting durabili-ty.

FCST aspires to a more connected world, believing everyone deserves access to high-speed broadband. We're dedicat-ed to expanding globally, evolving our products, and tackling modern challenges with innovative solutions. As technology advances and connects billions more devices, FCST helps developing regions leapfrog outdated technologies with sustainable solutions, evolving from a small company to a global leader in future fiber cable needs.

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