



Better FTTx, Better Life.



June, 2026

Technical Information

FCST-GSAE

Gas-Water Block Microduct End Caps

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www.fcst.com

www.microductcoupler.com





Gas-Water Block Microduct End Caps

Gas-Water Block Microduct End Caps are widely used in critical FTTX nodes (cabinets, fiber optic terminal boxes, ODFs) to effectively solve the problems of micro-cable cabling to the end of microducts and micro-cable fixing. This improves the efficiency of micro-cable cabling management.



- For 7-16 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.



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
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, EN 61300, EN 61753-1, EN 60068-2-10, EN 60794-1-2:2003

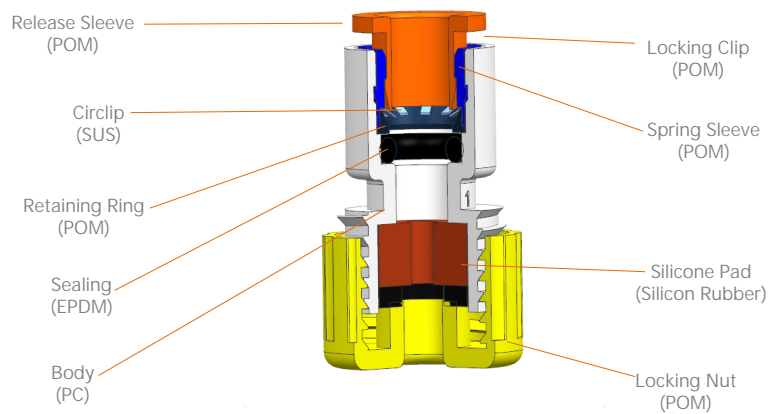


Standards

Construction

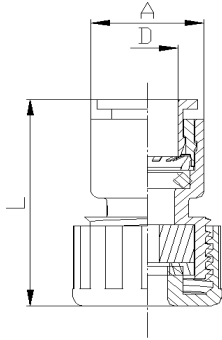
- EN 61300-2-26: Salt Mist
- EN 61300-2-33: Re-entries
- EN 61300-2-10: Crush Resistance
- EN 61300-3-1: Visual Appearance
- EN 61300-2-4: Microduct Retention
- EN 61300- 2-34: Chemical Resistance
- EN 50411-2-8:Annex E:Insertion Force
- EN 61386-22: Glow Wire Test at 750°C
- EN 60794- 1-2: 2003,Method 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	D (mm)	A(mm)	L (mm)	Weight (g)	Cable Blocking Range (mm)	Product Status
GSAE7	7	15.2±0.2	33.5±1.0	7.1±0.1	1.5-3	Mass Production
GSAE12	12	21.5±0.2	50.0±1.0	-	6.0-8.0	Mold Under Development
GSAE12.7	12.7	21.5±0.2	50.0±1.0	-	4.0-6.0/6.0-8.0/8.0-9.5	Mold Under Development
GSAE14	14	23.5±0.2	47.5±1.0	-	4.0-6.0/6.0-8.0/8.0-9.5/9.5-11.5	Mold Under Development
GSAE16	16	25.3±0.2	60.0±1.0	30.8±0.1	6.0-8.0/8.0-10.5	Mass Production

*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



Microduct Connector



Divisible Duct Sealing

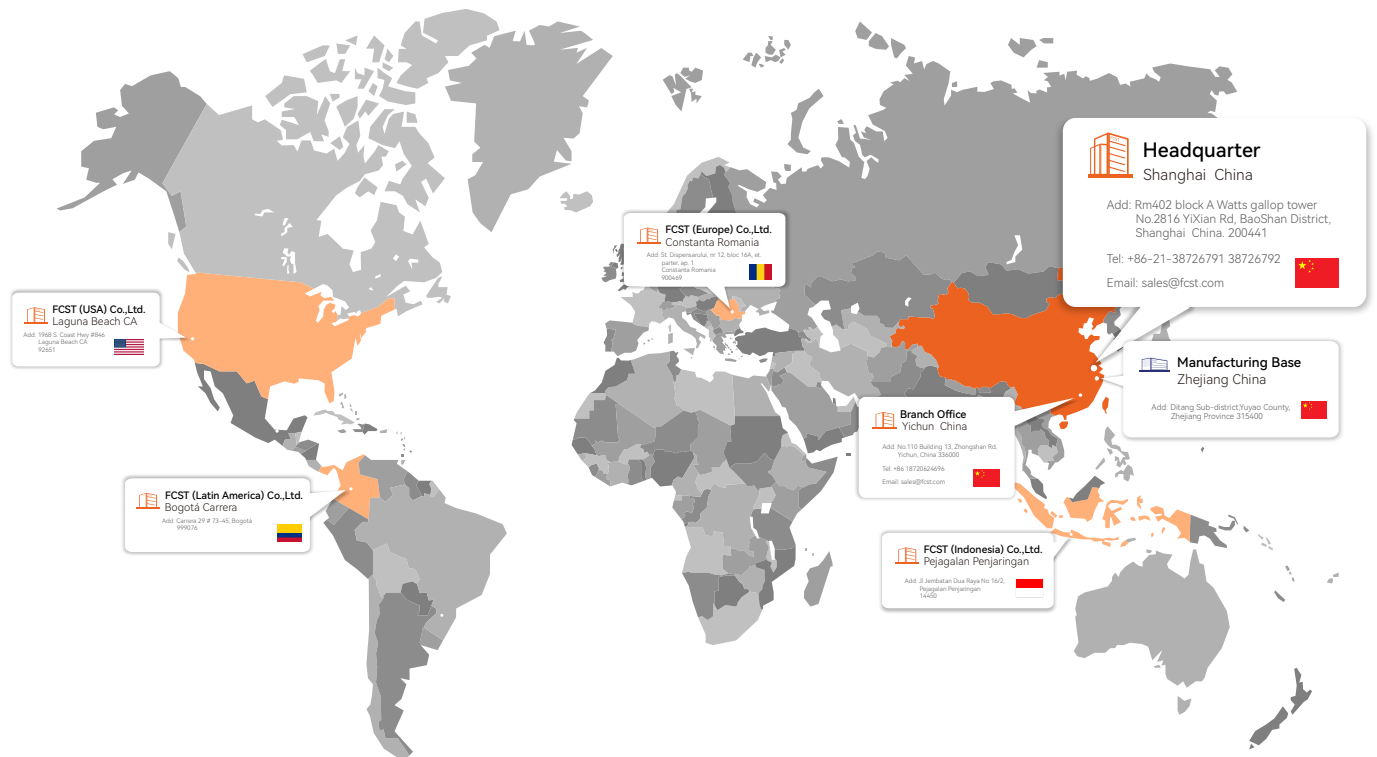


Marker Ball



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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 durability.

FCST aspires to a more connected world, believing everyone deserves access to high-speed broadband. We're dedicated 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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