SPRING

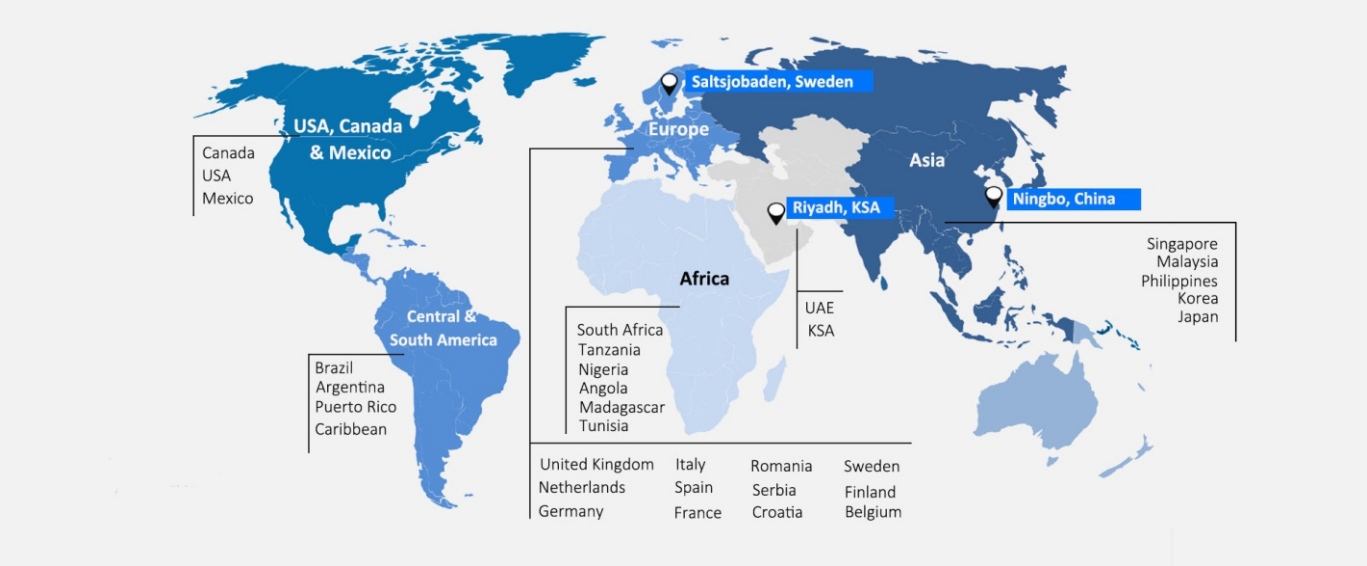


Shaping A Brighter Future for All

About Ningbo Spring

Ningbo Spring System is a professional manufacturer specializing in metal sheet products, with over 20 years of experience in the industry. We focus on providing high-quality indoor and outdoor cabinets, offering tailored solutions to meet the needs of various sectors. In addition to our core offerings, we extend our expertise through efficient supply-chain management, allowing us to provide advanced solutions such as data center cabinets and EV chargers. At Ningbo Spring System, we are committed to delivering reliable, innovative, and cost-effective products that support the growth and efficiency of our clients' operations.

Global Presence



Project Case



End Customer: TAWAL

Project Address: Saudi Arabia and GCC Country

Requirements: Outdoor Cabinets (Mini Shelter) shall be suitable for operation in the temperature, humidity, dust and other conditions to be expected at site

Related Products: Spring 42U Outdoor Cabinet and 84U Dual Depth Outdoor Cabinet

Integrated Outdoor Enclosures



42U Outdoor Cabinet

- Sandwich Structure
- 2kW Air Conditioner
- 4-Point Locking
- IP55 Protection Level
- Sensors Included
- Pad Mounted

What can be integrated inside?

- Power System
- Battery System
- Energy Storage
- Communication Equipment

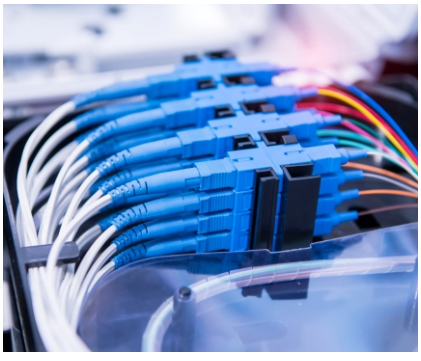
Application Scenarios



Telecom Infrastructure



Edge Data Centers



Fiber Optic Networks

Outdoor Enclosures



Pole Mount
Baseband Enclosure

Aluminum 5052, IP55



Pad Mount
22U Outdoor Enclosure

Single Wall (Galvanized Steel), 1.5kW Air Conditioner, 3-Point Locking System, IP55
Vertically Scalable



Pad Mount
38U SecuMax Outdoor Cabinet

Double Wall (Galvanized Steel+Thermal Foam), Fan Cooling, 3-Point Locking System, IP55
Anti-Theft Belt



Pad Mount
38U Outdoor Enclosure

Double Wall (Aluminum + Thermal Insulation Foam), 1kW Air Conditioner, 3-Point Locking System, IP55



Pad Mount
42U Outdoor Enclosure

Triple Wall (Stainless Steel + Thermal Insulation Foam+Galvanized Steel), 2kW Air Conditioner, 4-Point Locking System, IP55



Pad Mount
44U Outdoor Enclosure

Enclosure, Single Wall (Galvanized Steel), 120W/K Heat Exchanger, 3-Point Locking System, IP55

Outdoor Enclosures



60U Dual-Bay Outdoor Enclosure

Pad Mount , Single Wall (Aluminum), 210W/K Heat Exchanger, 3-Point Locking System, IP55



84U Dual-Bay Outdoor Enclosure

Pad Mount, Single Wall (Aluminum), 2KW Air Conditioner, 3-Point Locking System, IP55



Pole Mount 26U Outdoor Enclosure

Double Wall (Galvanized Steel + Thermal Insulation Foam), 1kW Air Conditioner, 3-Point Locking System, IP55

Outdoor Integrated Cabinet

Product Description

Scalable Power Core Cabinet Unit for Telecom TowerCo Operators, the cabinet is very flexible and scalable to be upgraded to higher capacity and to be connected with GRID, GENSET and SOLAR Power sources, the cabinet comes with system integrated monitoring to enable the client to have a clear view on there consumption and status, the full system is run by PowerX Artificial Intelligence.

Product Main Features

Lithium-Ion Batteries from 200A to 3000A, 48V DC battery bank

Rectifier System

- 48kW Hybrid Power Core System
- 24kW Solar, 24kW Rectifier

Cabinet

- Single and Dual Bay versions
- Wiring European Standards
- 19"inch rack mount
- Incorporate Motorized ATS (Automatic Transfer Switch)
- Environmental Alarms
- Keyless Locking Sand Management system
- DC Air conditioning
- DC and AC Smart Metering
- Emergency Generator Connection

Dual Bay High-Capacity Hybrid Power Cabinet



Motorized Automatic Transfer Switch

Intelligent Tenant Distribution and Metering

Emergency Generator Connection

Outdoor Fiber Distribution Cabinets



GF-NVt Fiber Distribution Cabinet

- Aluminum 5052
- 3-Point Locking
- IP55 Protection Level
- Pad Mounted
- Small Footprint
- High Capacity

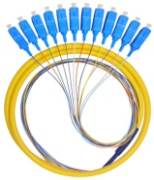
What can be integrated inside?



Splice Trays



Optical Splitters

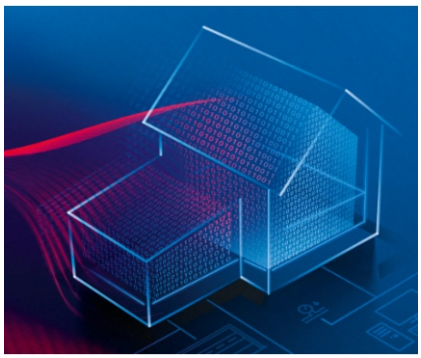


Fiber Pigtails



Cable Management Rings

Application Scenarios



FTTH (Fiber to the Home)



5G Base Station



Industrial IoT

Outdoor Integrated Cabinet

Ningbo Spring Gf-NVt Fiber Distributton Cabinet is designed to be installed in urban or suburban areas to facilitate the distributton and management of ffber opttc cables for telecommunicattons networks. These hubs serve as intermediate points where fiber opttc cables are interconnected, terminated, and distributed to serve various subscribers or endpoints within the local area.

- Craffed from durable aluminum 5052, the enclosure offer a lightweight yet corrosion-resistant design.
- Compact layout, small footprint.
- Well-designed layout facilitates efffcient cable routtng and management.
- A base-mounted door provides convenient access for cable entry and exit.



GF-NVt-S



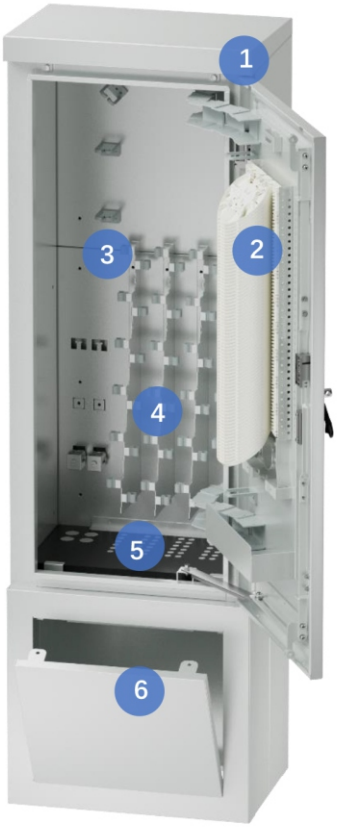
GF-NVt-M



GF-NVt-L

	GF-NVt-S	GF-NVt-M	GF-NVt-L
Material	2.0mm Thickness Aluminum 5052		
Finish	Powder Coating		
Color	RAL7035 Light Gray		
Dimensions(H*W*D)	1400*442*310 mm	1400*750*310mm	1400*1500*310mm
Splice Tray	12-fiber		
Qty. of Splice Tray	96	144	288
Max. Fiber Counts	1152	1728	3456

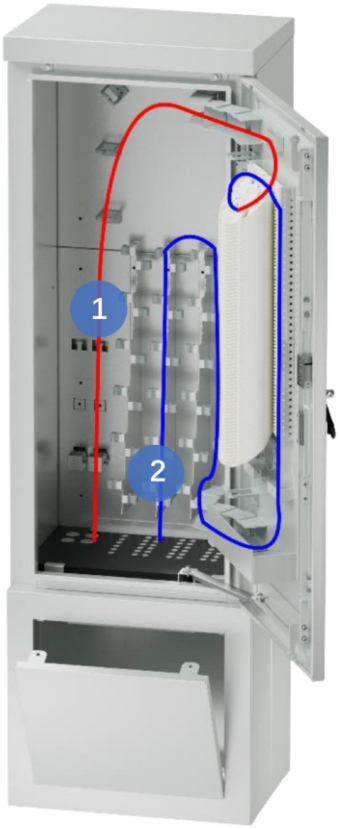
Included Parts



No.	Parts
1	Cabinet Housing
2	12-ffber Splice Trays
3	Cable Management Rings
4	Fiber Cable Attachment Panels including Toolless Fixing Clamps
5	EVA Base Plate with Cable Entries
6	Base-mounted Door

Cable Routing

No.	Cable Routing
1	Incoming Cable
2	Outgoing Cable



Multi-Function Outdoor Distribution Cabinet

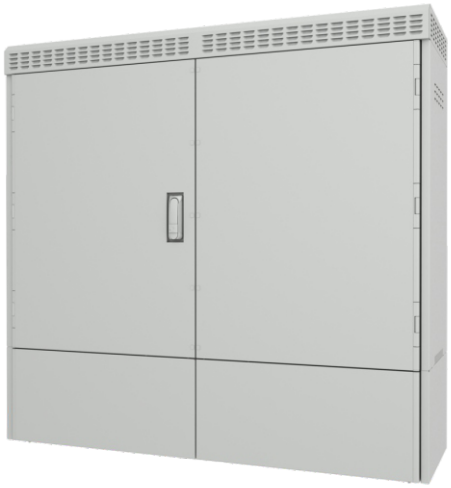
The MFG15/MFG18 series are high-performance outdoor distribution cabinets designed to meet the evolving demands of passive and active FTTx (Fiber-to-the-x) network deployments. Engineered for durability, flexibility, and scalability, these cabinets provide a robust and secure environment for critical telecommunications infrastructure in outdoor environments.

Customizable Design for Optimal Performance

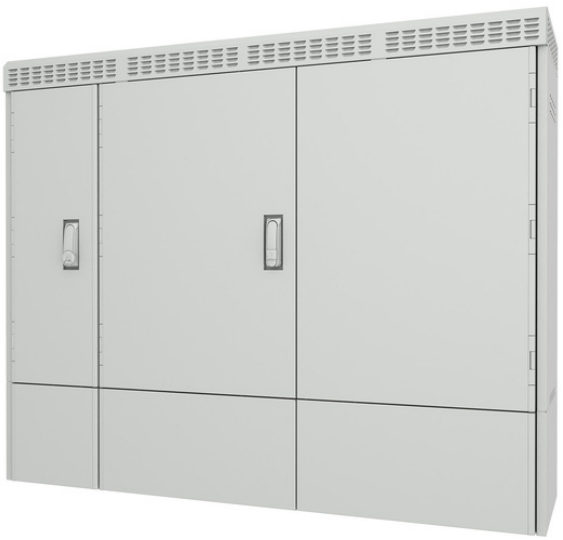
- Size & Capacity: Available in multiple dimensions to accommodate varying port densities and equipment layouts.
- Interior Configuration: Modular interior fittings allow for easy organization of fiber splicing, termination, and active equipment mounting.
- Climate Control: Optional integrated air conditioning and ventilation systems ensure optimal thermal management, protecting sensitive electronics from extreme temperatures.
- Enhanced Security: Robust locking mechanisms, tamper-proof designs, and optional alarm systems safeguard valuable network components.

Reliable & Future-Ready Infrastructure

- Weatherproof & Corrosion-Resistant Construction – Ensures long-term performance in diverse climates.
- Flexible Deployment – Suitable for FTTH, FTTB, FTTC, and 5G fronthaul/backhaul applications.
- Easy Maintenance & Accessibility – Streamlined design for efficient installation, upgrades, and troubleshooting.



MFG 15



MFG 18

	MFG 15	MFG 18
Material	Double Wall, Aluminum	
Finish	Powder Coating	
Color	RAL7035 Light Gray	
Dimensions(H*W*D)	1450*1700*500mm	1500*2000*500mm
Locking Mechanism	3 Point Locking	
Cooling System	Heat Exchanger	

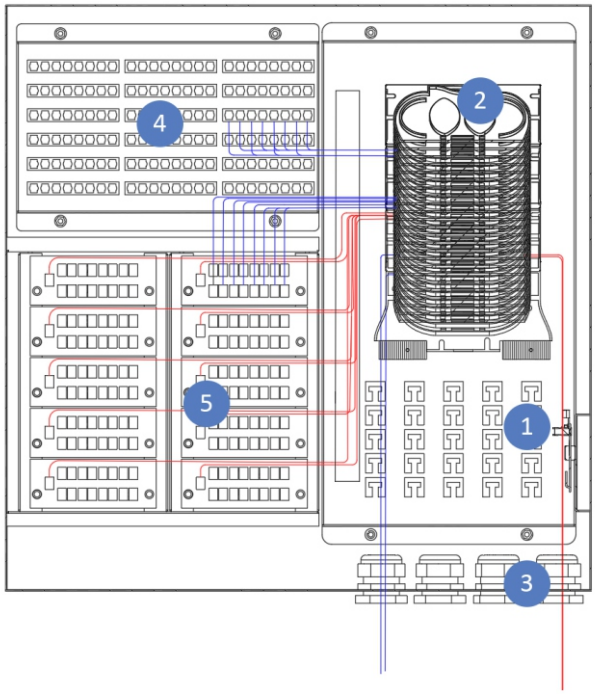
Fully Loaded Outdoor Fiber Distribution Hub

The 144F Outdoor Fiber Distribution Hub (FDH) from Ningbo Spring is a compact, yet high-capacity terminal designed for efficient and reliable fiber distribution to end subscribers in outdoor environments. Built for durability and flexibility, this FDH ensures seamless network deployment while maintaining uninterrupted service for existing users.

- **High Fiber Capacity** – Supports up to 144 fibers, ideal for high-density FTTx deployments.
- **Pre-Loaded & Ready to Deploy** – Equipped with splitters, adapters, splice trays, and pigtails for quick installation.
- **Flexible Configurations** – Modular design allows for easy upgrades and maintenance without disrupting live connections.
- **Plug-and-Play Installation** – Simplified deployment reduces labor costs and accelerates network rollout.
- **Robust Environmental Protection** – Weatherproof and corrosion-resistant construction ensures reliable performance in harsh outdoor conditions.



Included Parts/Cable Routing



No.	Parts
1	Cable Fixation Plate
2	Splice Trays
3	Cable Glands
4	Spare Fiber Storage Zone
5	Optical Splitters

Incoming Cable

Outgoing Cable

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