

Product portfolio

& services

Optical fiber

- Cables
- Junction boxes
- Optical termination boxes
- Hardware Connectors and accessories
- Pre-terminated solutions

External channeled plant

- Prefabricated chambers or manholes
- Pedestals
- Ducts - microducts and accessories

Active equipment

- IP networks
- Fixed networks
- Optical networks
- Mobile networks
- Customer terminal equipment

Tools & equipment

- FTTx installation tools
- Installation equipment
- Measurement equipment

Datacenters

- Optical connectivity
- Copper connectivity
- Infrastructure
- Facilities:
 - Environmental control
 - Security
 - Power

Services

- Engineering for FTTx deployments
- Surveying and design of fiber optic networks
- Design and construction of data centers
- Certification of fiber optic networks
- Engineering for 5G mobile networks
- Testing and approvals
- Product customization

Main suppliers

Cables

- LS
- Taihan
- YOFC
- Furukawa
- Prysmian
- HTGD
- ZTT

Assets

- Nokia
- Padtec

Passives

- Corning
- ALT
- Panduit
- Rosenberger
- R&M

Tools

- JonardTools
- EXFO

Piped infrastructure

- Shellbox
- Afripipes
- K-net
- Duraline

Hardware store

- PLP

Cables

We aim to help you determine the type of cable you need for your specific situation. No two wiring jobs are alike, and each has its own set of challenges and specifications. The cable types in this basic guide are just a few of the hundreds we can supply and should meet your needs for the vast majority of your projects.



Junction boxes and CTOs

FYCO can provide a variety of models for splice protections, including DOMO types with mechanical or heat-shrink seals, horizontal or linear types, and CTO optical terminal boxes, with a variety of alternatives in terms of internal/external configuration.



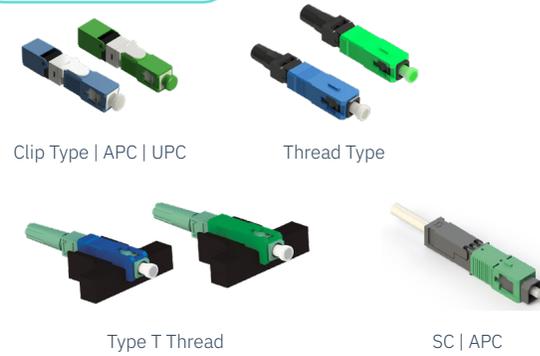
Optical fiber

Rosettes, accessories, and connectors

Rosettes



Connectors



Accessories



Optical splitters



Optical distributors

Pigtails



Pathcord



ODF



Optical fiber

Hardware

FYCO can provide a wide range of fiber optic cable hardware, from trunk networks with ADSS layouts, Figure 8, to the final drop service cable within the customer's premises. That is why we offer a variety of solutions in terms of materials and specifications to meet the needs of your project.

Retention



Suspension



Tensors



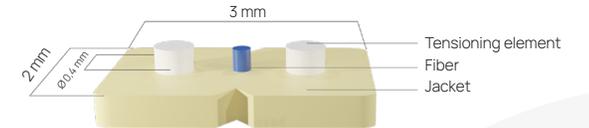
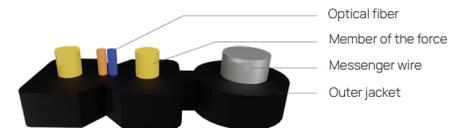
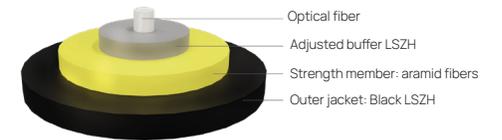
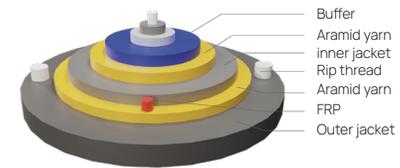
PRECON solution

FYCO developed a series of pre-terminated solutions that include both outdoor and indoor enclosures and pre-terminated optical cables, with the aim of replacing complicated traditional fiber splicing operations to make construction more efficient and cost-effective. The enclosures feature pre-terminated external adapters with IP68 protection rating.

PRECON boxes



Drop PRECON



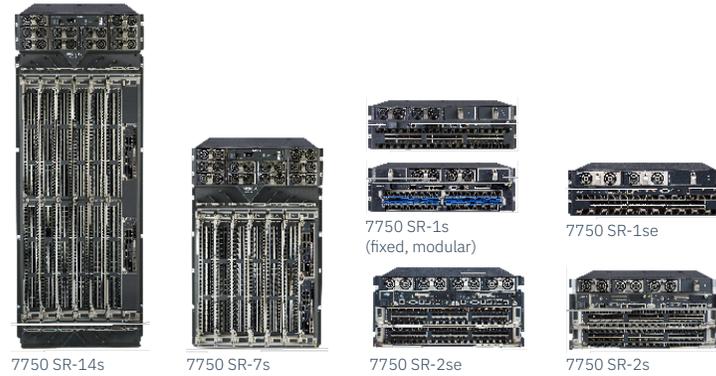
Pre-Connected Compatible Solution



The connectors can come with one or both ends pre-assembled at the factory (IP68) or field-assembled (IP65).

IP networks

- Routing infrastructure necessary to address the 5G and Cloud era.
- Throughput greater than 100 Tb.
- Port density of up to 800 Gb.
- Supporting more than 500,000 customers.
- Different services and functionalities in the same equipment, from BNG and CGNAT to Firewall and IP/MPLS networks.
- Accurate attack sensor and mitigation element in a network-based DDoS protection solution, more secure IP networks with no impact on performance.
- Solutions for mission-critical and business-critical applications for ISPs, the public sector, and private companies.



Virtualized Service Router (VSR)

- Complete range of virtualized IP routing applications.
- Designed for vertical and horizontal scaling of virtualized network functions.
- Reliable and resilient services with unified operations.
- With throughput up to 40Gbps of NAT.
- Diversity of applications, BNG, CGNAT, Firewall, Data Center Gateway, and many others.

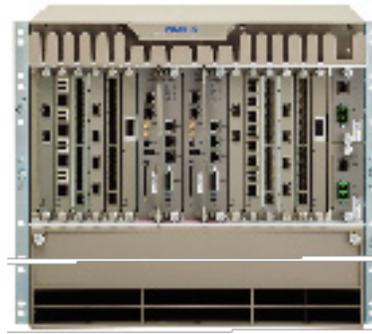
For datacenter

- Terabit-scale routing for data centers.
- Highly scalable port density of up to 800Gb.
- Optimized for next-generation mobile transport (Anyhaul).
- Convergence of fixed access mobile networks and mission-critical applications.



7210 Service Access System (SAS)

- Cost-effective GE access, demarcation, and aggregation routers.
- High density and line performance.
- 7210 SAS-S series modes: 7x50 satellite port extender and standalone router.
- 7210 SAS-24: RoE and TSN compatible.
- Proven, highly resilient SR OS software offers a comprehensive set of IP routing features: cost-effective GE access, demarcation, and aggregation routers.
- High density and line performance.
- 7210 SAS-S series modes: 7x50 satellite port extender and standalone router. 7210 SAS-24: RoE and TSN compatible.
- Proven, highly resilient SR OS software offering a comprehensive set of IP routing features.



7210 SAS-R12



7210 SAS-R6



7210 SAS-T (ETR option)



7210 SAS-Mxp (ETR option)



7210 SAS-Sx 10/100GE

7705 Service Aggregation Router (SAR)

- Access and aggregation routers with hardware-based encryption support.
- Multiservice interfaces providing Ethernet, TDM, ATM, Frame Relay, HDLC, and GPON. PoE/PoE+, integrated packet microwave, serial data, voice, and remote protection applications.
- Proven, highly resilient SR OS software provides a comprehensive set of IP routing features.



7705 SAR-18



7705 SAR-8



7705 SAR-M (2 variants)



7705 SAR-X

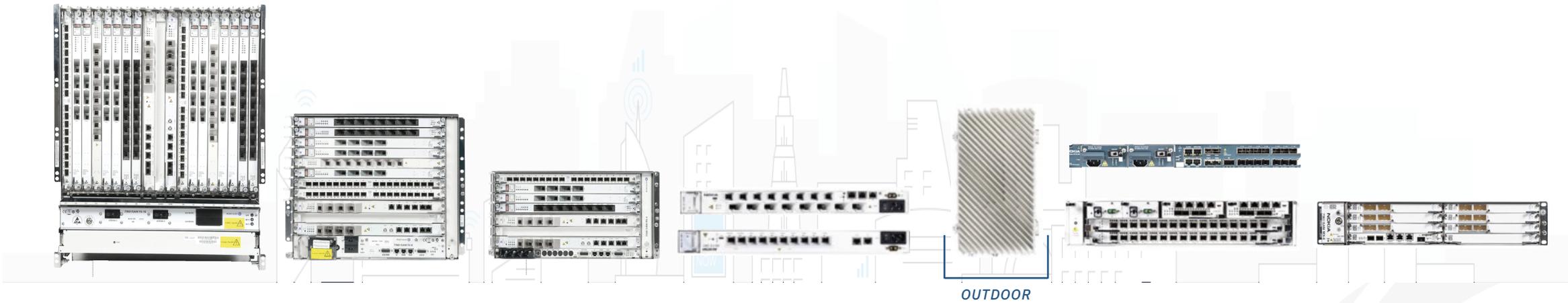


7705 SAR-Ax

Fixed Networks

This solution enables software-defined networks, allowing for the development of neutral networks. With the Multi-PON card, each port can simultaneously support GPON, XGS-PON, GPON and XGS-PON, NG-PON2 (TWDM-PON), or 25GS-PON, giving operators the flexibility to offer services with the technology that best suits their needs.

It maximizes flexibility for the virtualization and centralization of network functions. Management can be easily automated through the use of standardized NETCONF/YANG interfaces, simplifying system integration. It provides the possibility of deploying POL networks.



ISAM | Lightspan
FX-16

ISAM | Lightspan
FX-8

ISAM | Lightspan
FX-4

ISAM
DF-8
DF-16

ISAM
SF-8

Lightspan
DF-16*
MF-2*

Lightspan
MX-6*

HIGH DENSITY

LOW DENSITY

Optical Networks

- Innovative, modular architecture, offered on compact, low-power platforms.
- Solutions for scaling from the network edge and across long-distance and submarine links.
- Supports access rates from 2 Mbps to 200 Gbps and switching capacity up to 400 G.
- Fully redundant architecture with customer and line protection options.
- NETCONF/YANG model and RESTCONF management interface.



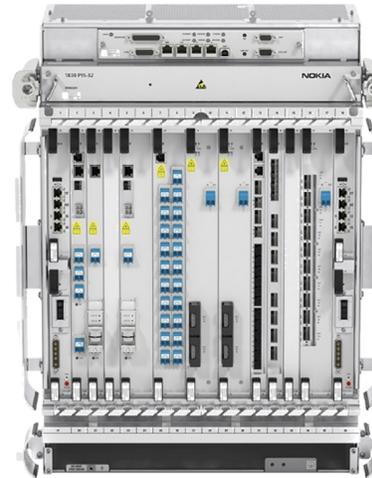
200G muxponder
1.6T per chassis

PSE
3c



200G uplink
1.6T per chassis

PSE
3c



600G muxponder
9.6T per chassis

PSE
3s

PSE
3c



1T uplink
24T per chassis

PSE
3s

PSE
3c

Optical Networks

Carrier-class solution for high-capacity multi-service transport in various network architectures, with applications ranging from metro networks to terrestrial and submarine backbones, and highly efficient in data center interconnection solutions. DWDM, OTN, and other technologies.

Plataforma LightPad i6400G

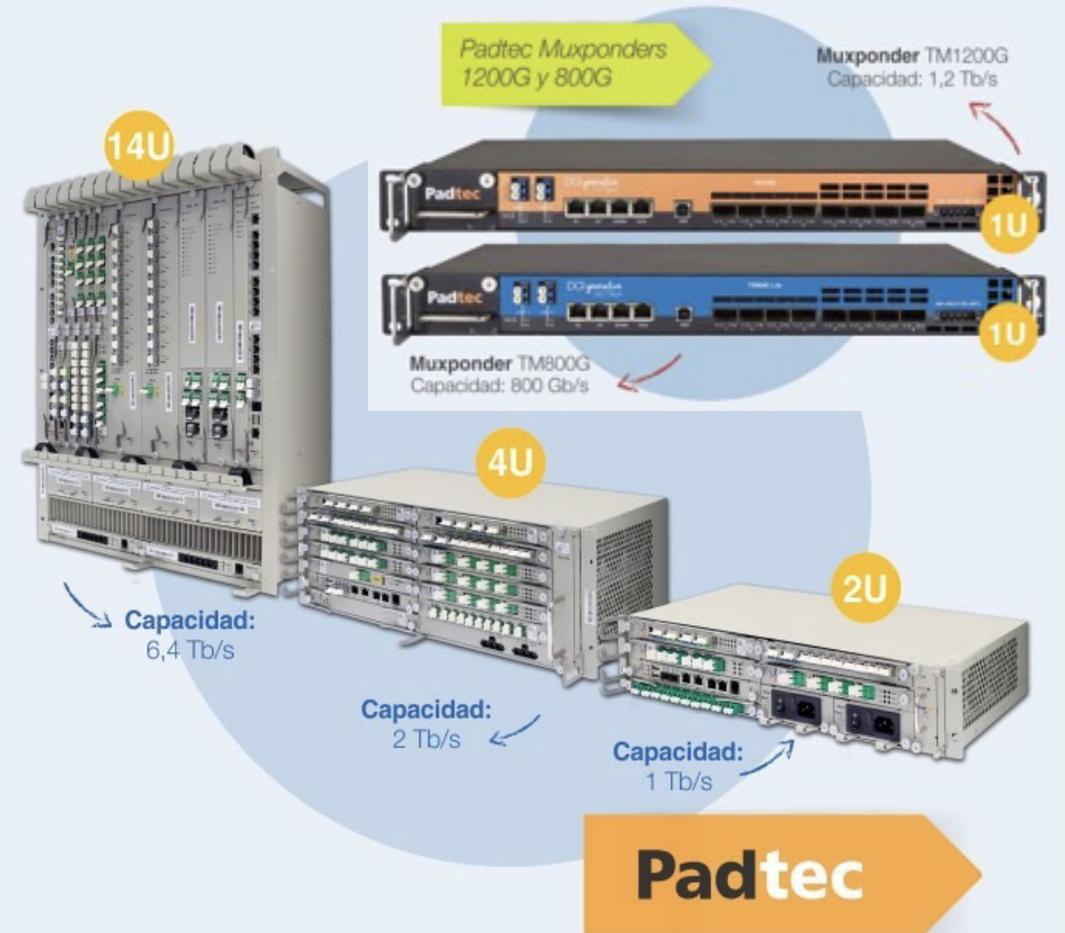
A través de la **Plataforma LightPad i6400G**, Padtec ofrece una solución carrier-class para el transporte multi-servicios de alta capacidad en varias arquitecturas de red.

Aplicaciones

- Backbones terrestres y submarinos
- Redes de metro y agregación
- Escenarios de extensión DCI y SAN

Tecnologías

- DWDM (*Dense Wavelength Division Multiplexing*)
- ROADM WSS (*Wavelength Selective Switch*)
- OTN (*Optical Transport Network*)
- ODU-XC (*ODU cross-connect*)
- OTN Switching



Mobile networks

Nokia's AirScale solution enables unlimited capacity, an invisible network, and instant innovation. To meet the requirements of ultra-low latency, massive connectivity, and extreme capacity of 5G, networks need to be highly versatile.

AirScale is the industry's first end-to-end commercial 5G solution that enables operators to fully leverage the benefits of 5G.

Nokia AirScale radio portfolio

Radios



Macro Remote Radio Head (RRH)



RF Module (RFM)



Compact Active Antenna (CAA)



MassiveMIMO Adaptive Antenna (MAA)



Stacked Passive Active Antenna (SPAA)



Interleaved Passive Active Antenna (IPAA)



millimeterWave Radio (ASMR)



micro Remote Radio Head (mRRH)



AirScale indoor Radio (ASiR)

Active Antennas

Small Cells



Customer terminal equipment

NOKIA G-1425G-B



- Dual band 2.4GHz and 5GHz ONT
- Supported Wi-Fi standards are 5 or 6 depending on the model 1 or 2 telephone ports (POTS)
- From 1 GE port to 4 GE ports or more
- GPON, XGPON, XGSPON technologies
- NAT, Firewall functionalities
- Supports DMZ, DDNS, L2TP, VPN
- PPPoE, IPoE protocols
- MIMO (multiple input multiple output) technology
- Efficient delivery of video services via unicast and multicast
- Flexible video delivery via Ethernet, wireless, or set-top boxes
- Equipment with routing capability and other bridge types

NOKIA G-0425G-C



- Four RJ-45 10/100/1000 Ethernet ports
- Up to 2 USB 2.0 ports (depending on variant)
- IEEE 802.11 b/g/n wireless technology: 2.4 GHz
- IEEE 802.11ac wireless technology: 5 GHz
- Network Address Translation (NAT) and firewall
- Concurrent dual-band Wi-Fi: 2.4 GHz and 5 GHz
- Optical compatible with received signal strength indication (RSSI)
- Supports virtual private network (VPN)
- Supports Layer 2 Tunneling Protocol (L2TP) and IPsec
- Port forwarding and demilitarized zone (DMZ)
- Dynamic Domain Name System (DDNS)

NOKIA G-0425G-C

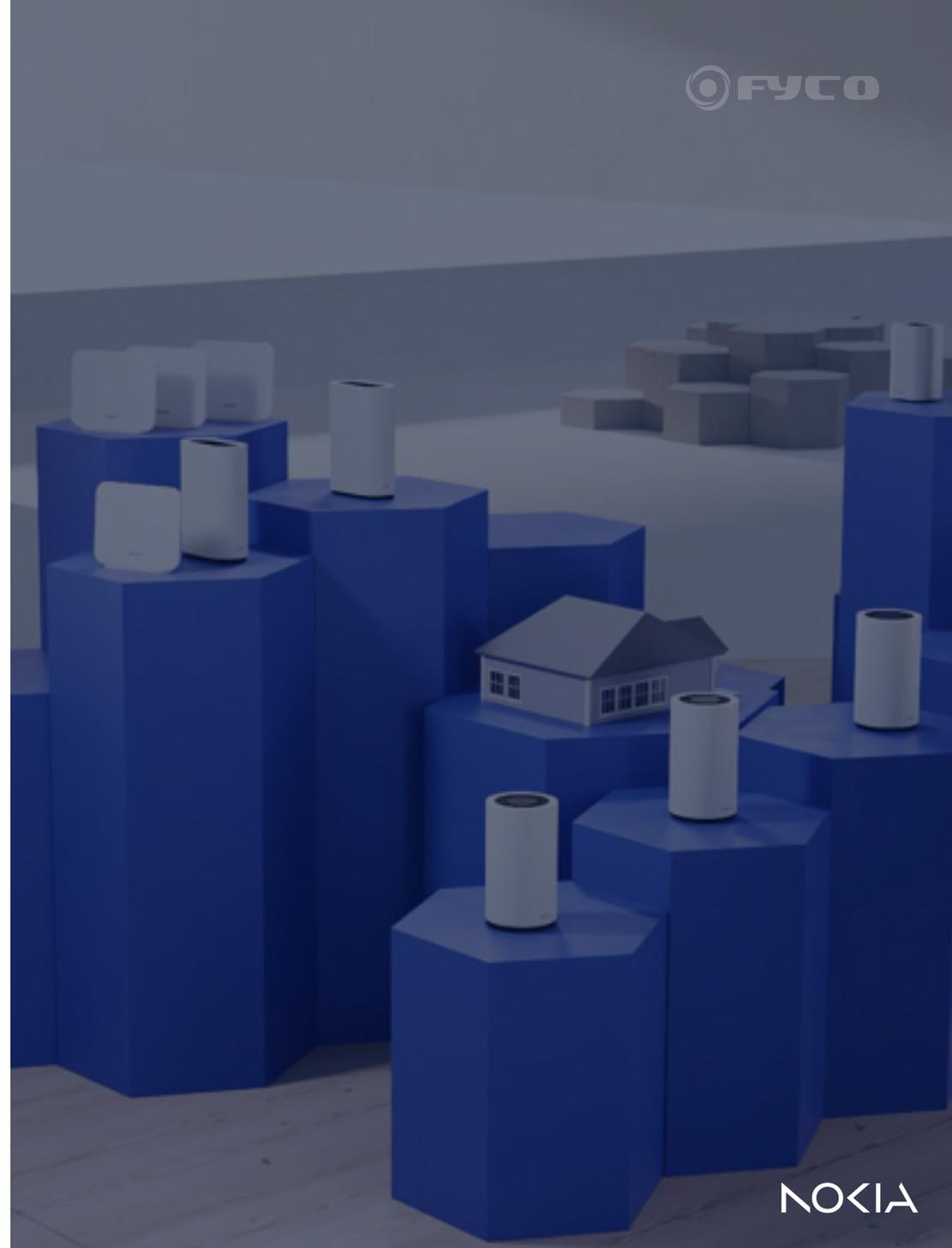


- Four RJ-45 10/100/1000 Ethernet ports
- Two POTS ports for carrier-grade voice services
- Concurrent dual-band Wi-Fi: 2.4 GHz and 5 GHz
- IEEE 802.11 b/g/n/ax wireless: 2.4 GHz
- IEEE 802.11ac/ax wireless: 5 GHz
- Network address translation (NAT) and firewall
- Voice interworking function from analog POTS lines to Voice over IP (VoIP) and Ethernet layers
- One USB 3.0 host port
- Optics support received signal strength indication (RSSI)
- Supports virtual private network (VPN), pass-through for Point-to-Point Tunneling, Point-to-Point Tunneling Protocol (L2TP), and IPsec
- Port forwarding and demilitarized zone (DMZ)/dynamic domain name system (DDNS)

Mesh-enabled Nokia WiFi Beacons



Beacon 1.1	Beacon 2	Beacon 6	Beacon G6
AC1200 (2+2)	AX1800 (2+2)	AX4200 (2+2+4)	AX6000 (4+4)
	1x GE WAN		1x 2.5GE WAN
2x GE LAN	1x GE LAN	2x GE LAN	1x 2.5GE, 2x GE LAN
-		1x USB	



Fiber connectivity solution

Discover FYCO's line of products for data centers, with structured optical cabling solutions that include pigtailed, patch cords, trunk cables, and equipment and room interconnect cables for parallel communication compatible with a variety of connectors. You will also find a set of products for high connectivity and optical route switching, consisting of racks, subracks, and modules with a high concentration of fibers for high-density system applications with low physical space requirements.

High-density cabinets for fiber optics



Applications

- MDA – Main Distribution Area
- EDA – Equipment Distribution Area
- ZDA – Zone Distribution Area

Features and benefits

- Complete wall-to-wall installation
- Front-only operation
- Top and bottom cable entries
- Standard connection cable lengths
- Rapid growth and easy handling
- Space saving
- Modular growth according to need
- Low-cost operation, management, and storage

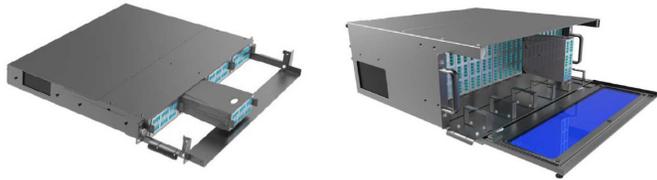
Dimensions

- 300 mm x 2.2 m or 1.8 m (Depth x Height)
- 900 mm, 600 mm, or 300 mm (Width)

Capabilities

- FTH-300: 2400 FO
- FTH-620: 1152 FO
- FTH-900: 1920 FO
- FTH9 Plus: 2880 FO

Modular connection panels TAURUS



Applications

- MDA – Main Distribution Area
- EDA – Equipment Distribution Area
- ZDA – Zone Distribution Area

Dimensions

- 1 RU – 320 mm Depth 19”
- 4 RU – 360 mm Depth 19”

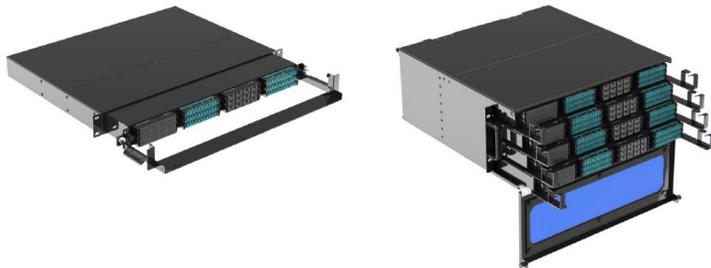
Features and benefits

- Rapid growth and easy handling
- Space saving
- Modular growth according to need
- Low-cost operation, management, and storage

Capabilities

- 1RU – 96FO LC PNL / 384 FO MTP PNL
- 4RU – 288 FO LC PNL / 1152FO MTP PNL

High-density modular panels for connection TAURUS



Applications

- MDA – Main Distribution Area
- EDA – Equipment Distribution Area
- ZDA – Zone Distribution Area

Dimensions

- 1 RU – 340 mm Depth 19”
- 4 RU – 390 mm Depth 19”

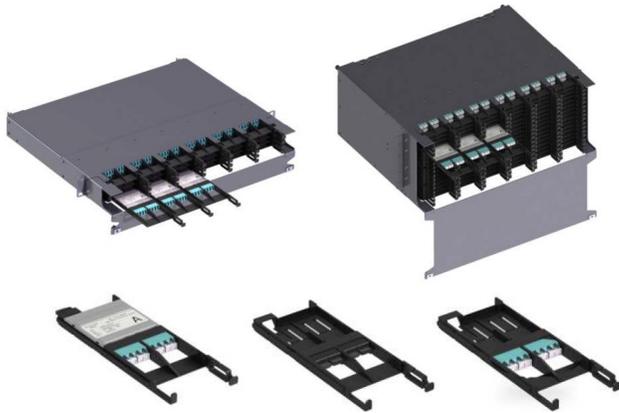
Features and benefits

- Rapid growth and easy handling
- Space saving Modular growth according to need
- Low-cost operation, management, and storage

Capabilities

- 1RU – 144FO LC PNL / 384 FO MTP PNL
- 4RU – 576 FO LC PNL / 2304FO MTP PNL

Ultra-high-density modular panels for TAURUS connection



Applications

- MDA – Main Distribution Area
- EDA – Equipment Distribution Area
- ZDA – Zone Distribution Area

Features and benefits

- Rapid growth and easy handling
- Space saving Modular growth according to need
- Low-cost operation, management, and storage

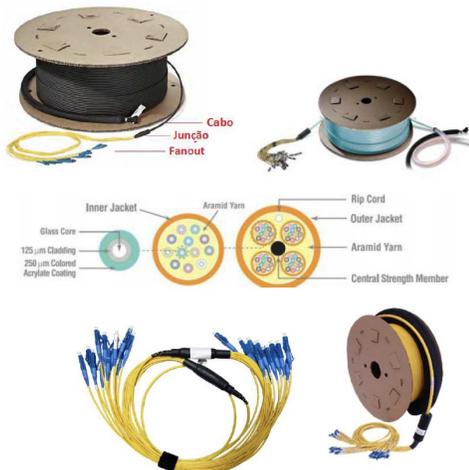
Dimensions

- 1 RU – 386 mm Depth 19”
- 4 RU – 386 mm Depth 19”

Capabilities

- 1RU – 192FO LC PNL / 1152 FO MTP PNL
- 4RU – 768 FO LC PNL / 4608 FO MTP PNL

Trunk cables / high density



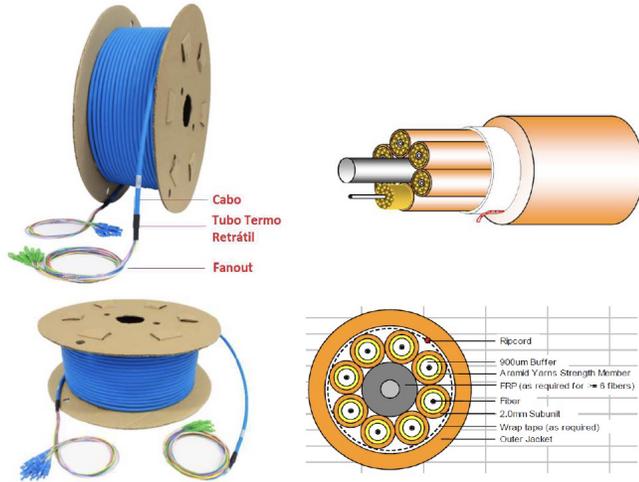
Features and benefits

- Up to 144 fibers
- Assembly with LC, SC, E2000, FC, ST, or MTP/MPO connectors
- SM (single-mode G652-D or G657 BLI fiber) Corning SMF-28®
- MM (multimode OM3 or OM4) Corning ClearCurve®
- Configurable lengths according to the project
- FanOut length up to 2.5 m
- Completely dry with 10 mm diameter
- Anti-rodent 18 mm diameter
- IP65 protection Fanout with 600N protection tube for traction
- LSZH jacket (indoor/outdoor)

Applications

- Horizontal and vertical backbone between MDA, EDA, and ZDA
- MDA – Main Distribution Area
- EDA – Equipment Distribution Area
- ZDA – Zone Distribution Area

Trunk cables / high density



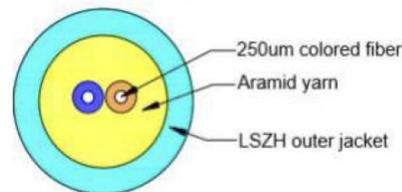
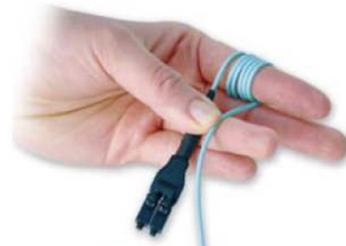
Features and benefits

- Up to 12 fibers
- Assembly with LC, SC, E2000, FC, or ST connectors (single-mode G652-D or G657 B1 fiber) Corning SMF-28®
- MM (multimode OM3 or OM4) Corning ClearCurve®
- Configurable lengths according to the project
- FanOut length up to 2.5 m
- Completely dry with 13 mm diameter
- Anti-rodent with 18 mm diameter
- IP65 protection Fanout with protective tube
- LSZH jacket (indoor/outdoor)

Applications

- Horizontal and vertical backbone between MDA, EDA, and ZDA.
- MDA – Main Distribution Area
- EDA – Equipment Distribution Area
- ZDA – Zone Distribution Area

Patchcords y pigtails



Features and benefits

- Simplex, Duplex, or Unoboot LC, SC, E2000, FC, or ST connector
- SM (single-mode G652-D or G657 B1 fiber) Corning SMF-28®
- MM (multimode OM3 or OM4) Corning ClearCurve®
- Configurable lengths according to the project
- External diameter of 1.6 mm, 2 mm, or 3 mm
- LSZH jacket



Copper connectivity solution

FYCO has a comprehensive solution for the cabling industry that includes copper products for data centers and data rooms with products such as: Cat-6 UTP cables and patch cords, connectors, plugs, modules, and patch panels in a variety of sizes and ports.

UTP cables | patch cords | modules | termination plugs



Patch panel | surface boxes | accessories

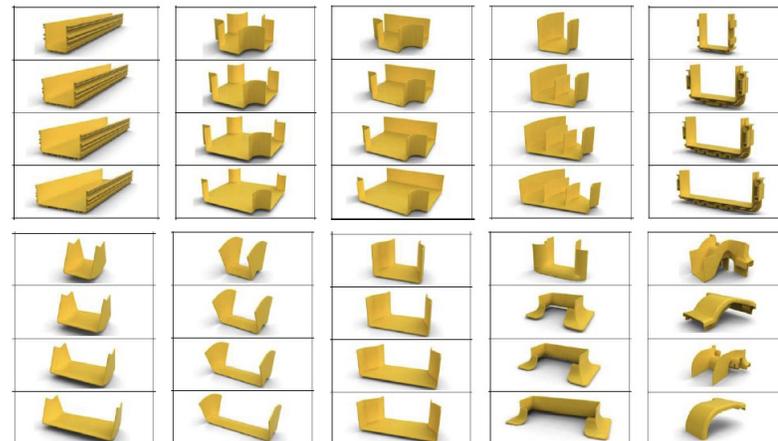
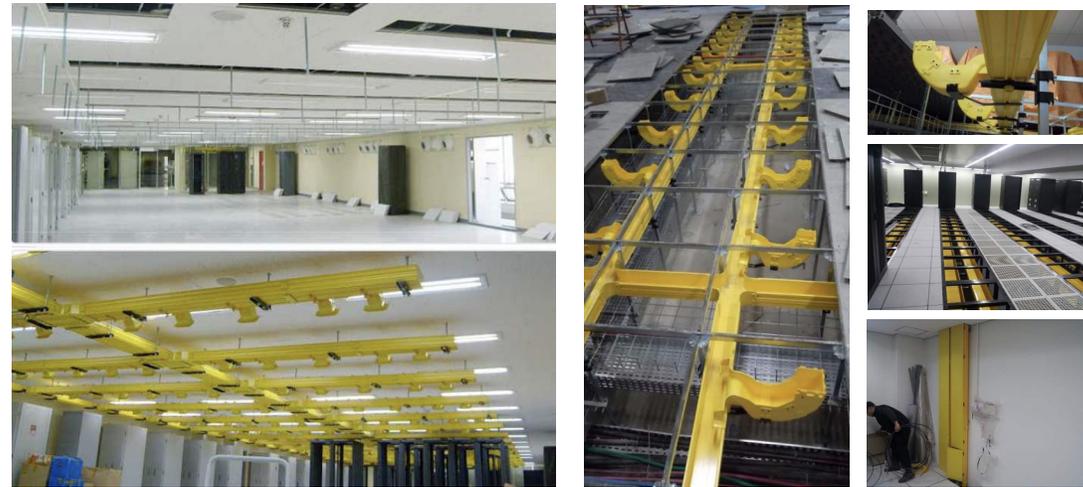


Infrastructure solution

The infrastructure of a data center is the data processing center that transmits, stores, and protects your company's and your customers' information. Therefore, security, the environment, and the set of elements that allow for the efficient use of space with order and quality will guarantee the operation and useful life of all active elements of the system. The exponential growth of fiber deployments to meet the connectivity needs of users around the world requires more data center infrastructure, which is why at FYCO, we are ready to help you with this solution.

Features and benefits

- Main ducts 100 mm, 160 mm, 220 mm, and 300 mm
- Height 100 mm
- For overhead and floor applications
- Adjustable positions
- Plug & Play system
- LSZH
- UL certification





KEMPII

25" X 21" X 22"



OLIVA

30" X 17" X 24"



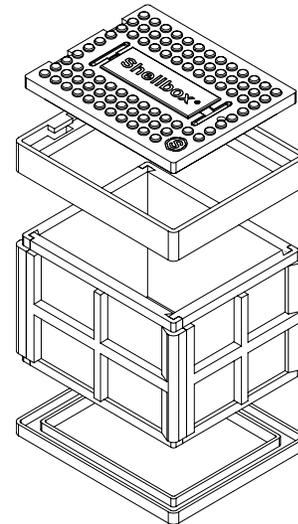
Prefabricated chamber or records

Modern urban infrastructure developments pose new challenges in the design of solutions using renewable and alternative materials. That is why FYCO presents its range of products for underground installations, chambers or manholes, ducts, subducts, connection accessories, and tools that can meet the needs of telecommunications projects.

INFORMATION

RATING	TIER 15
WEIGHT	92 lbs
EXT LWH	25" X 21" X 22"
INT LWH	21" X 17" X 18"

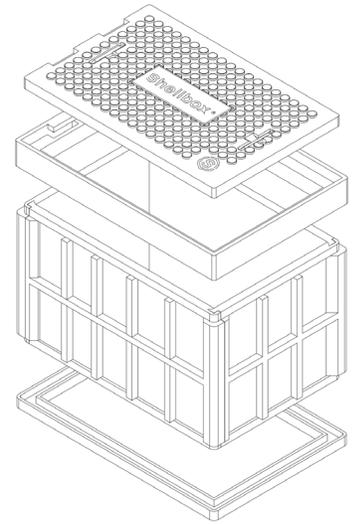
READY TO ASSEMBLE



INFORMATION

RATING	TIER 15
WEIGHT	132 lbs
EXT LWH	30" X 17" X 24"
INT LWH	26" X 13" X 20"

READY TO ASSEMBLE



External channeled plant



MYDAS

37" X 25" X 24"



CARETT

48" X 48" X 31"



CORI

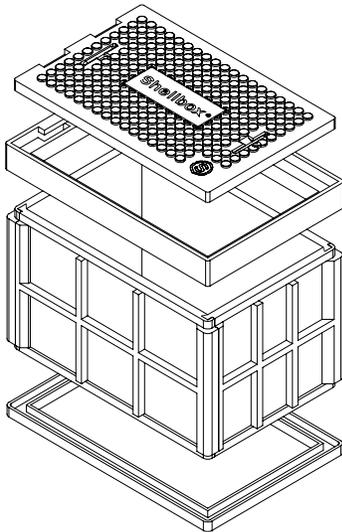
48" X 48" X 52"



INFORMATION

RATING	TIER 15
WEIGHT	171 lbs
EXT LWH	37" X 25" X 24"
INT LWH	33" X 21" X 20"

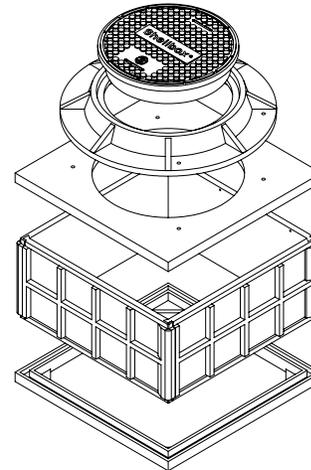
READY TO ASSEMBLE



INFORMATION

RATING	TIER 22
WEIGHT	431 lbs
EXT LWH	48" X 48" X 31"
INT LWH	44" X 44" X 37"

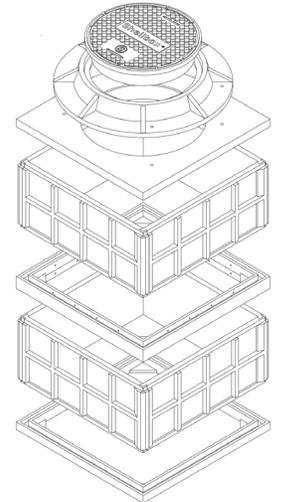
READY TO ASSEMBLE



INFORMATION

RATING	TIER 22
WEIGHT	638 lbs
EXT LWH	48" X 48" X 52"
INT LWH	44" X 44" X 48"

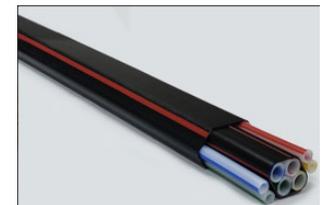
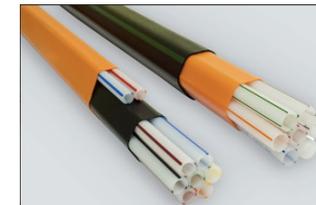
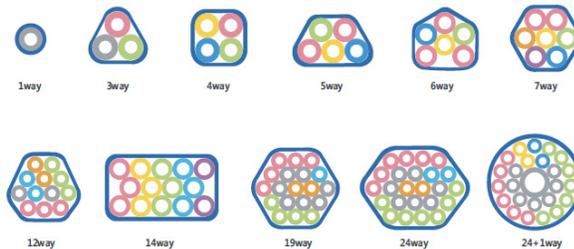
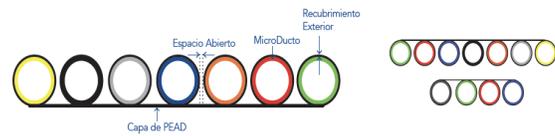
READY TO ASSEMBLE



External channeled plant

Pipes | Microducts | Accessories

In partnership with manufacturers specializing in materials, products, and accessories for channeled infrastructure, FYCO can offer:



Colores configurables



Diseños Poligonales



Antioedor



LSZH

Tools



Jonard Tools is committed to providing the highest quality in our fiber optic tools and fiber optic tool kits. As the low voltage industry changes and new technology is introduced, Jonard Tools' mission is to provide tools that meet the latest needs of all fiber optic and cabling technicians.

We pride ourselves on manufacturing tools and products from premium materials to ensure that technicians across a wide range of fields and industries have the most reliable and durable tools available on any job site. Our dedication to the quality of the tools we offer is why we back most of our tools with our Made for Life®, Guaranteed for Life policy.

Measuring equipment

Tools and equipment

Scalable, open-platform testing solution for validating bandwidth speed and monitoring network performance.

OX1 - OFM

Fiber optic tester that performs link verification and automated fault tracking in seconds. It allows frontline technicians to explore more and do more.

PX1 - OPM

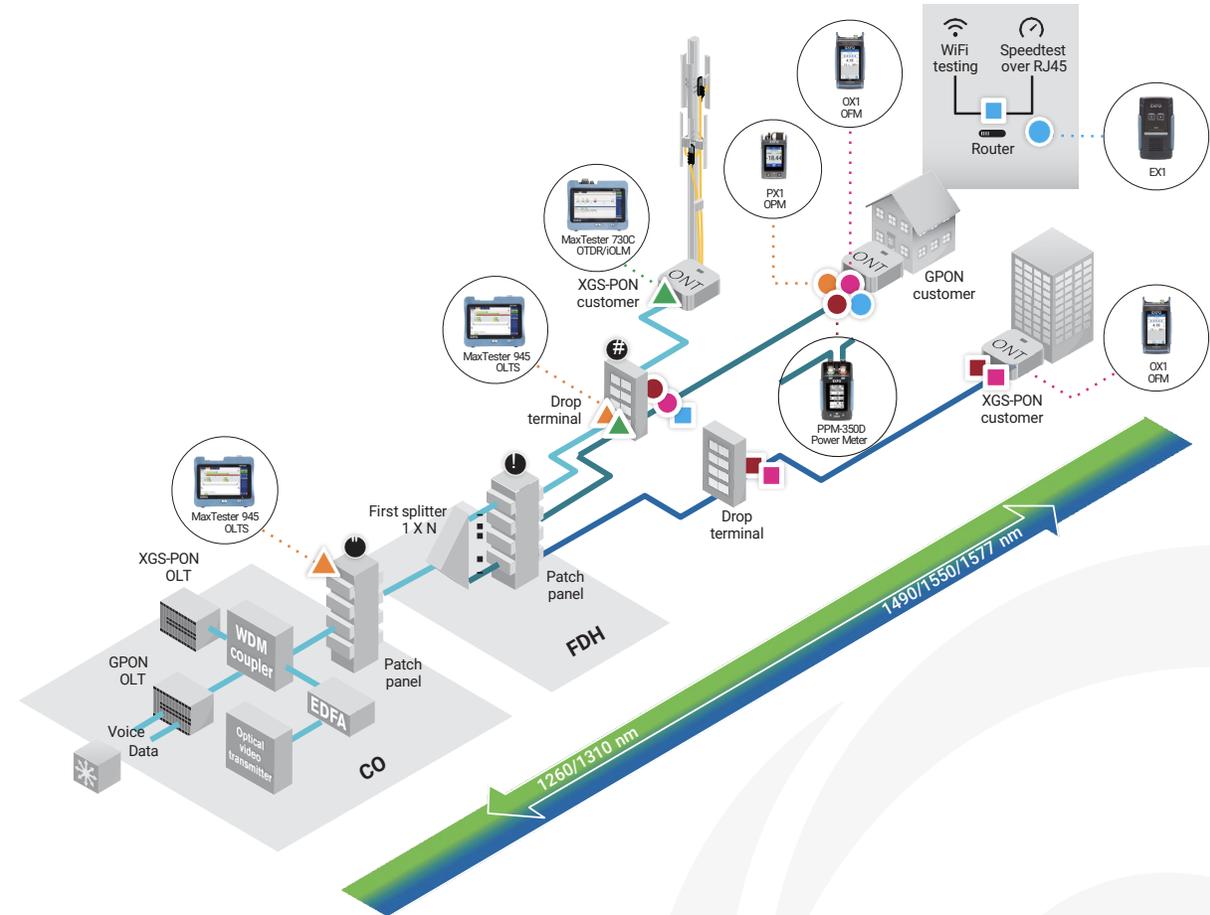
Power meter with Bluetooth connectivity, a large touchscreen, and best-in-class optical performance.

MaxTester 945 - OLTS

First tablet-inspired multifunction optical loss test set (OLTS) that provides insertion loss, return loss, and fiber length measurements at two wavelengths in five seconds using fully automated FasTest™ bidirectional analysis.

MaxTester 730C - OTDR/iOLM

Dedicated entry-level OTDR with full functionality and a tablet-inspired design, suitable for metro and optimized for testing through optical splitters, for seamless end-to-end FTTH characterization and troubleshooting.



¡We facilitate the connection *in Latin America!*

www.fycotelecom.com

