



FIBER OPTIC CATALOGUE



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■ ABOUT US

At XTND Connect, we are a leading provider of cutting-edge solutions in the field of fiber optics, networking equipment, IT/telecom racks and cabinets, cable pulling equipment, structured cabling products and accessories, and media converters. With a strong commitment to innovation, quality, and customer satisfaction, we have established ourselves as a trusted partner for businesses seeking reliable and efficient infrastructure solutions



Our Expertise

Whether you require high-speed fiber optic solutions, robust networking equipment, or reliable cabling products, we have the knowledge and resources to deliver exceptional results.



Quality and Reliability

We conduct rigorous quality checks and tests on all our products to guarantee their durability and reliability in demanding environments



Customer-Centric Approach

Our knowledgeable sales and support teams are always available to assist you in selecting the right products, answering your queries, and offering technical guidance at every step of the way.



Sustainability and Responsibility

Our knowledgeable sales and support teams are always available to assist you in selecting the right products, answering your queries, and offering technical guidance at every step of the way.

FTTX AT A GLANCE

FTTX

Fiber to the x (FTTx) is a term for any broadband network architecture that uses fiber optic cable instead of the regular copper cable for last mile telecommunications. X means where the fiber optic cable ends. The generic term is used as a generalization of several configurations of fiber deployment (FTTN, FTTC, FTTB, FTTH...), all starting by FTT but differentiated by the last letter, which is substituted by an x as generalization.

FTTN

FTTN - Fiber-to-the-node - fiber is terminated in an outdoor street cabinet up to several kilometers away from the customer premises, with the final connection being copper.

FTTC

FTTC - Fiber-to-the-cabinet or fiber-to-the-curb - this is very similar to FTTN, but the street cabinet is closer to the user's premises; typically within 300m.

FTTB

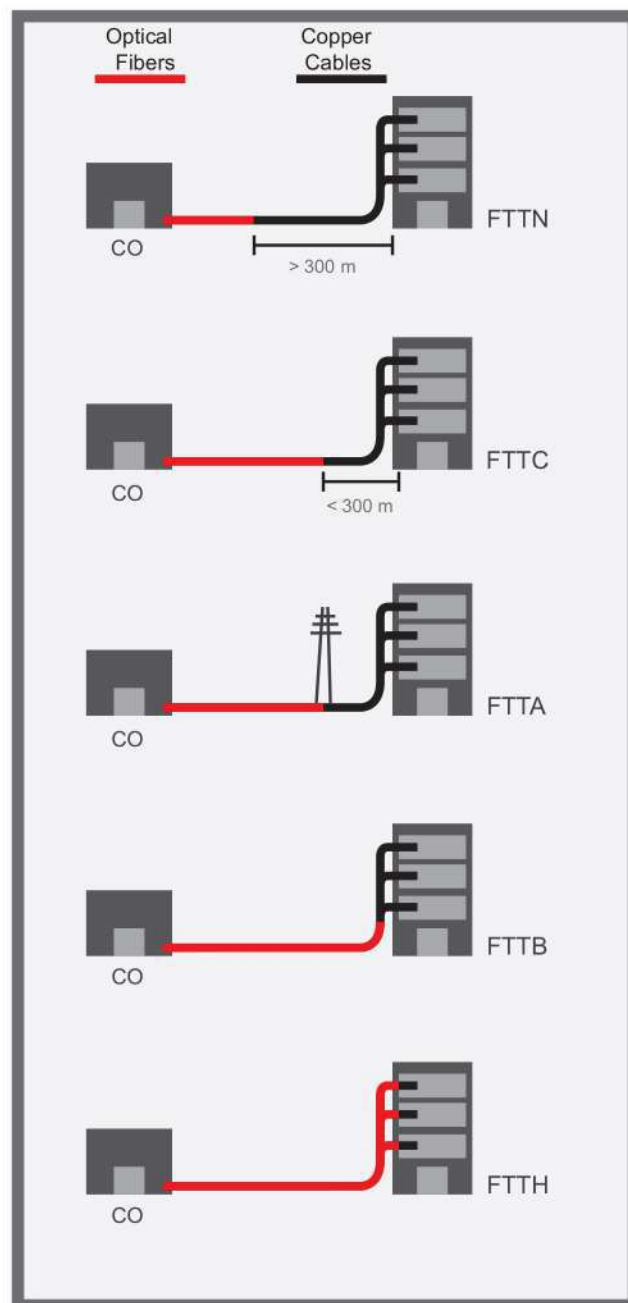
FTTB - Fiber-to-the-building - fiber reaches the boundary of the building, such as the basement in an multi-dwelling unit, with the final connection to the individual living space being made via copper or wireless means.

FTTH

FTTH - Fiber-to-the-home - fiber reaches the boundary of the living space, such as a box on the outside wall of a home.

FTTA

FTTA - Fiber-to-the Antenna - fiber reaches to the antenna and data is distributed via antennas.

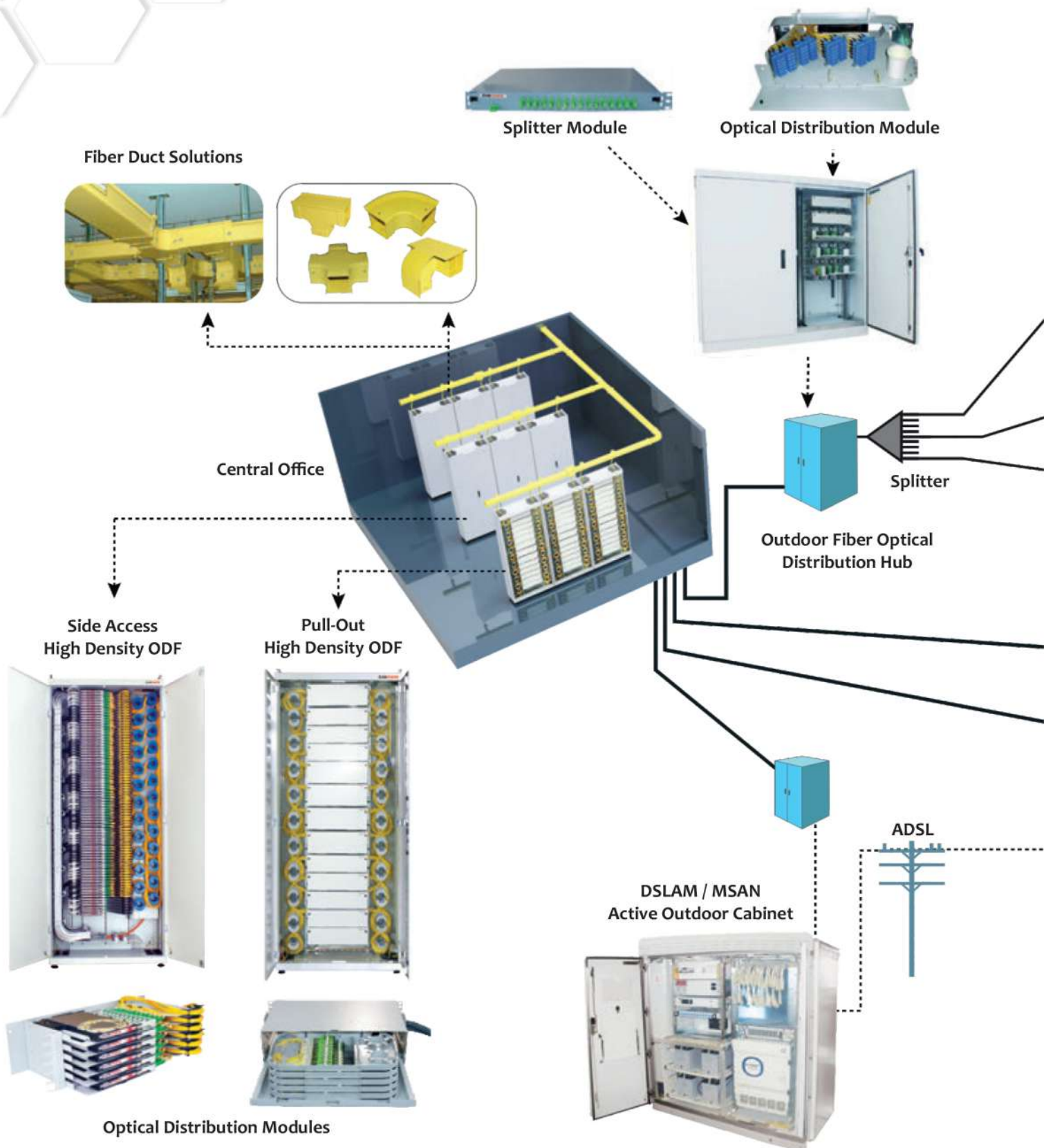


Drawing illustrates how FTTX architectures vary with regard to the distance between the fiber optic cable and the end-user. The building on the left is the central office; on the right is one of the buildings served by the central office

FTTN	Fiber To The Node
FTTC	Fiber To The Curb
FTTA	Fiber To The Antenna
FTTB	Fiber To The Building
FTTH	Fiber To The Home

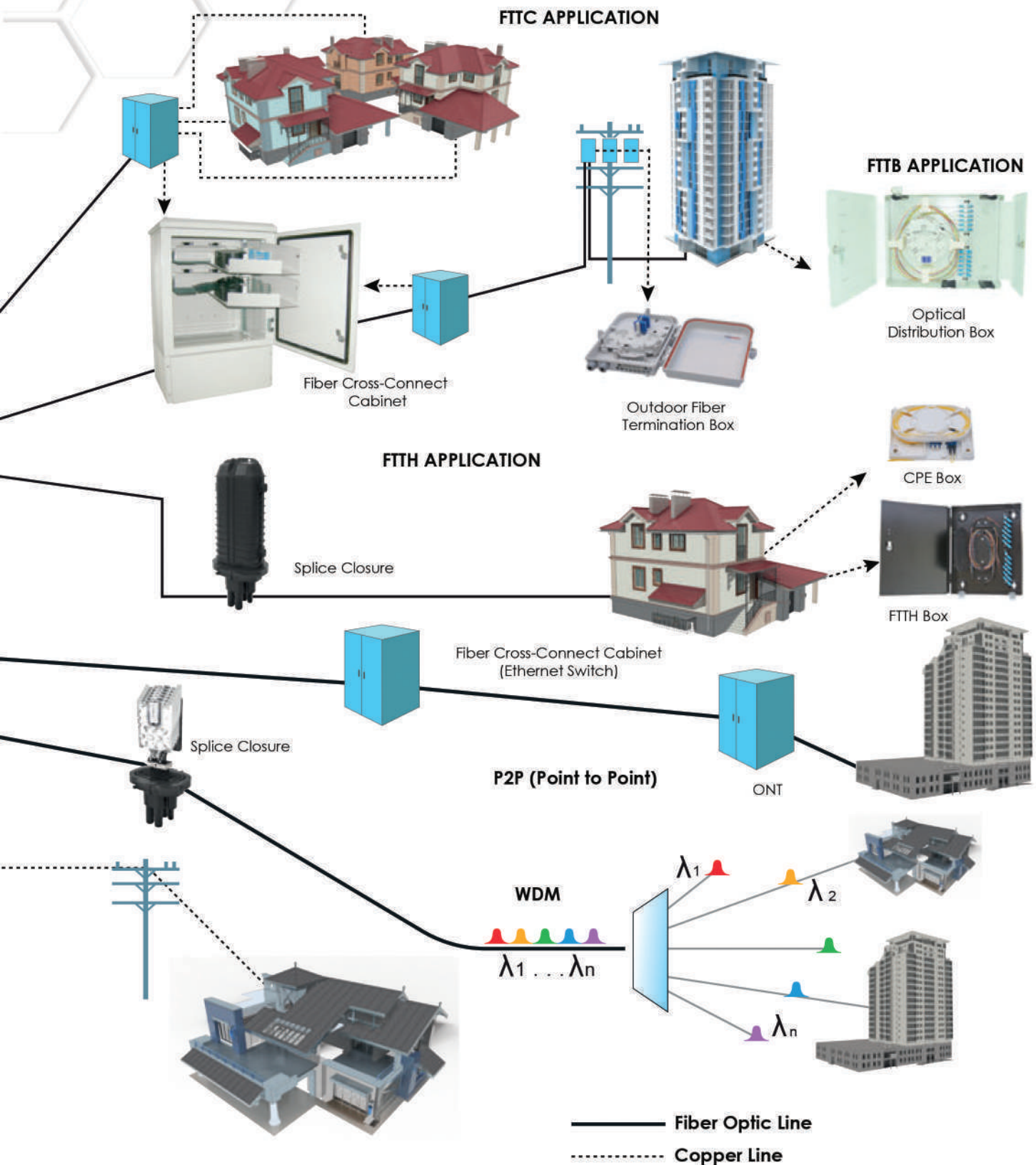
FTTX TOPOLOGIES

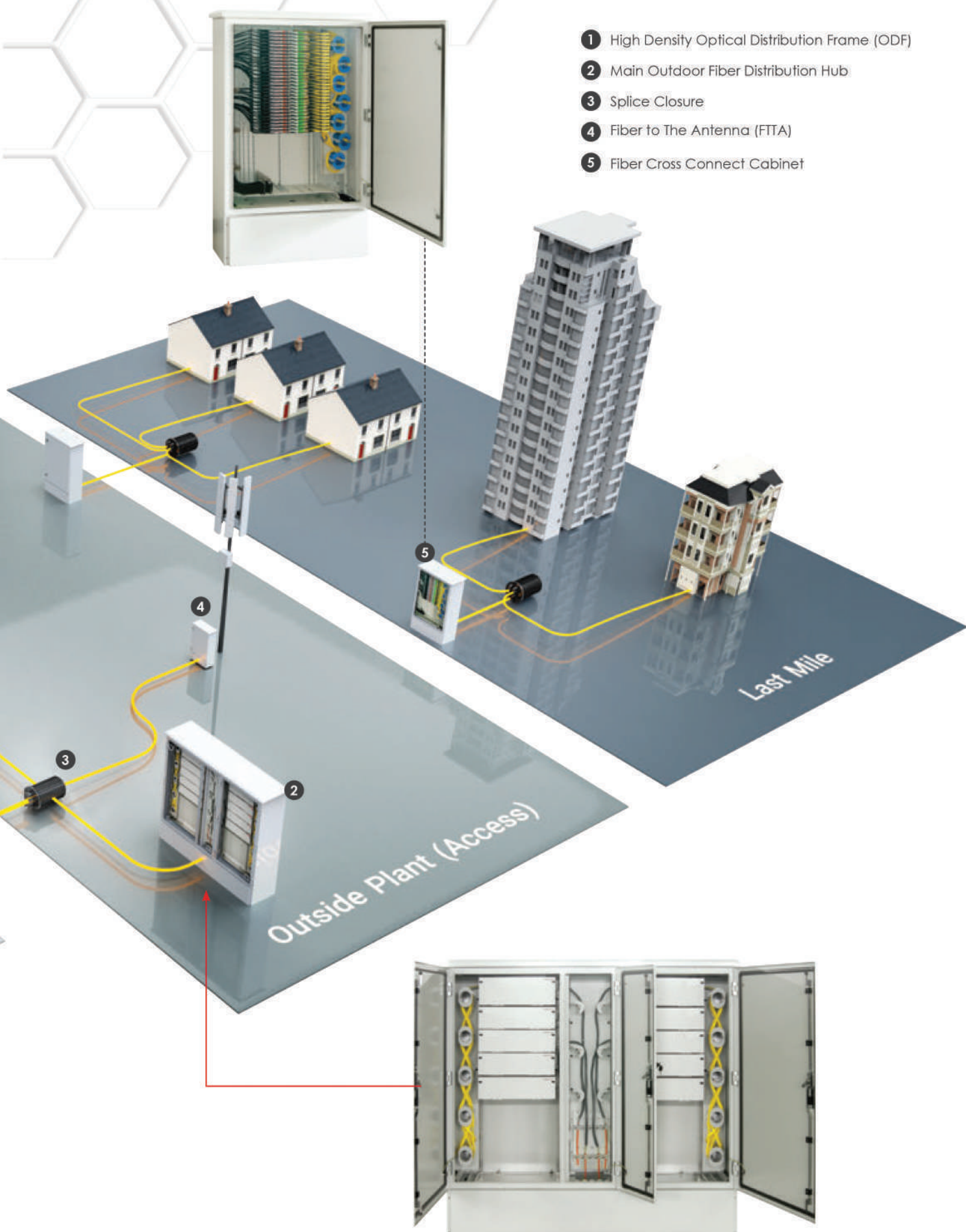
As one of the leading manufacturers of hi-tech products in Europe, XTND understands the needs and challenges of future's network technology. IT professionals rely upon Canovate for leading-edge solutions that incorporate innovative technologies, strategic partnerships, certified partner programs and design tools to deliver the most comprehensive FTTX solutions.



XTND offers every passive part of the solution in FTTX applications from fiber distribution to fiber termination.

- Optical Distribution Frames
- Outdoor Fiber Distribution Cabinets
- Optical Fiber Termination Modules
- Optical Distribution Boxes
- FTTH Boxes
- Splice Closures
- Fiber Duct Solutions





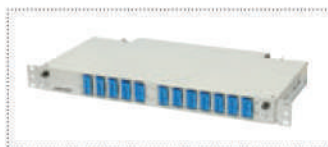
CO (CENTRAL OFFICE)

SOLUTIONS



Optical Distribution Frame (ODF)

Flexible, modular, and pre-terminated ODFs consisting of optical fiber termination modules, splice modules and patch panels provide efficient and economical cross-connection and interconnection between FTTP equipment, splitters, WDMs and feeder cables.



Patch Panels and Splice Shelves

Wide selection of high-density patch panels and splice shelves for configuring and managing fiber cable terminations.



Patch Cords and Jumpers

Rugged, compact and high performance fiber patch cords and jumpers connect FTTP equipment and outside plant cabling systems.



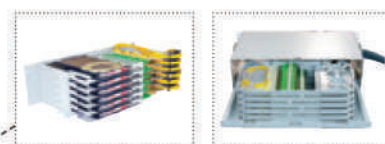
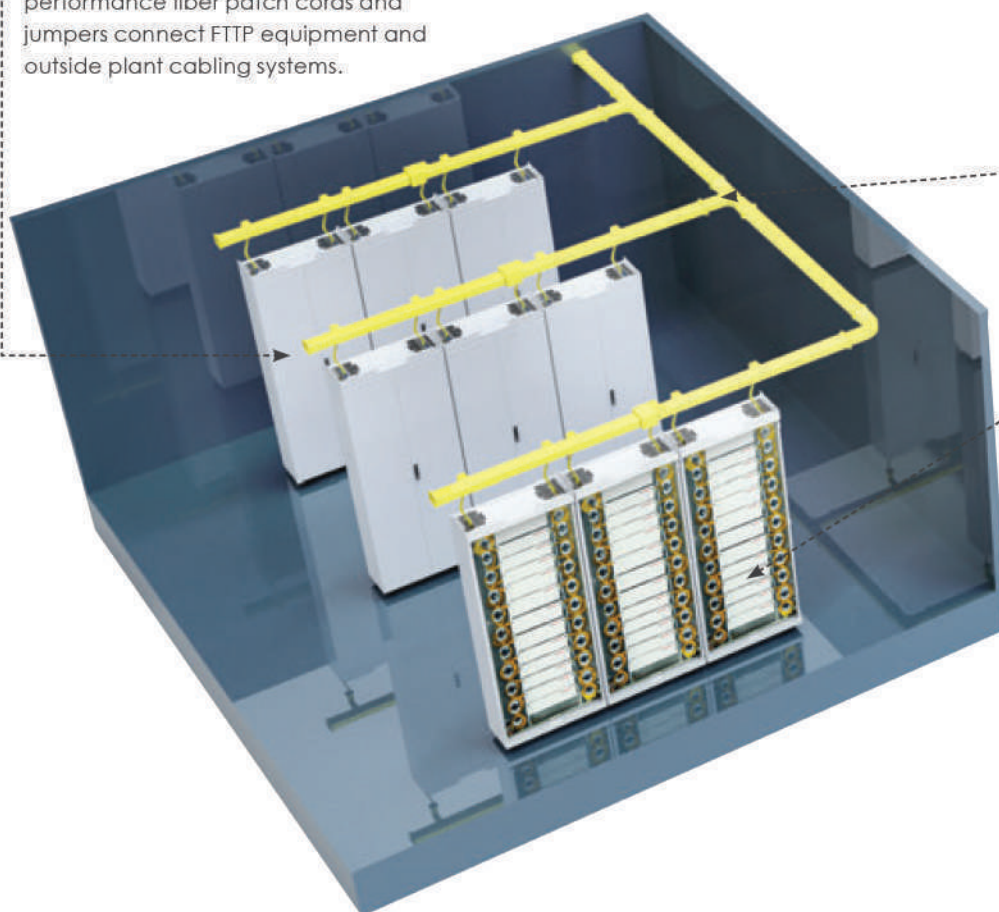
Fiber Duct Solutions

Optical Fiber Duct System solution is designed to ensure professional fiber distribution and guidance of the fiber inside the central office by maintaining the required bend radius criterias.



Splitter Modules

XTND offers high density splitter modules to allow complex splitting operations.



Optical Fiber Termination Modules

Plug and play modular optical fiber termination modules allow high-density applications for fiber termination, splicing and patching in CO infrastructure.

FIBER OPTIC CABLES

FC01-MT-A-SJ(AY50)

A-DF(ZN)(SR)2Y

Multi loose tube, corrugated steel tape armor fiber optic cable.

Application

- Direct burial and duct type applications.
- Suitable for pushing, blowing method.
- In heavy duty environments.
- As a backbone cable in telecommunication lines

Cable Construction

- 1 - Optical fiber core ¹
- 2 - Waterproof thixotropic jelly
- 3 - PBT Tube
- 4 - Non-metallic central strength member (FRP)
- 5 - Jelly filling
- 6 - Core Wrapping (Polyester Tape)
- 7 - Non-metallic strength member (Aramid yarn)
- 8 - Ripcord
- 9 - Corrugated steel tape
- 10- UV resistant polyethylene (MDPE) orange outer jacket

Mechanical & Environmental Characteristics

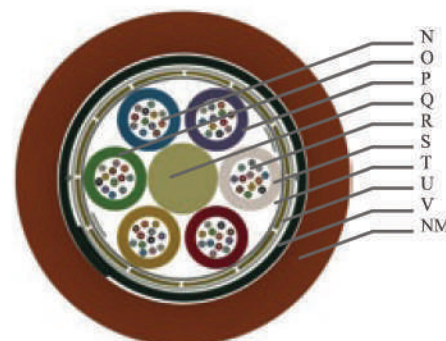
	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension ²	IEC 60794-1-2-E1	3.0 x W(N), min. 5000 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	1.0 x W(N), min. 1500 N	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	3000 N / 100 mm, max. 15 min.	Δα ≤ 0.05 dB, No damage
Impact	IEC 60794-1-2-E4	10 Nm, 3 impacts, R= 300 mm	Δα ≤ 0.05 dB after the test
Torsion	IEC 60794-1-2-E7	1 m. 100N, +/- 180°, 10 cycles	Δα ≤ 0.05 dB, No damage
Repeated Bending	IEC 60794-1-2-E6	R=20x D, 100 N, 35 cycles	No damage
Bending Radius	IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	Δα ≤ 0.05 dB, No damage
Temperature Cycling	IEC 60794-1-2-F1	-20°C to +70°C	Δα ≤ 0.05 dB/km
Waterproofness	IEC 60794-1-2-F5B	Sample= 3 m, water column= 1 m	No water leakage in 24 hours.



Application

	Minimum Bending Radius
Operation	20 x cable Ø
Fixed	15 x cable Ø

	Temperature Range	
Storage	-40°C to +70°C	Installation -30°C to +60°C
Transport	-40°C to +70°C	Operating -40°C to +70°C



Marking, Packing, Delivery Lengths

Marking	XTND Kablo <Date of Manufacture> <Fiber Count and Type> <Length Marking>
Packing	Wooden drum with protection
Delivery Lengths	2 km, 4 km ± %5 tolerance

Notes

¹ Optical fiber core could be applied as G.652.D, G.655, G.657.A1, G.657.A2, OM1, OM2, OM3, OM4 according to customer demand. ² Maximum tensile strength could be changed according to customer demand.

FIBER OPTIC CABLES

FC01-MT-NA-SJHF(GY12)

U-DF(ZN)H

Cable Construction

- 1 - Optical fiber core ¹
- 2 - Waterproof thixotropic jelly
- 3 - PBT Tube
- 4 - Non-metallic central strength member (FRP)
- 5 - Jelly filling
- 6 - Core Wrapping (Polyester Tape)
- 7 - Non-metallic strength member (Glass yarn)
- 8 - Ripcord
- 9 - UV resistant halogen-free (LSOH) outer jacket

Application

- Easy and fast installation due to its small diameter and light construction.
- Suitable for pushing, blowing method.
- Indoor and duct type applications; low smoke, zero halogen.
- Problem-free use in power lines due to its nonmetallic construction.
- Rodent protection.
- Due to its thin construction, the cable could be used as an indoor cable.

Mechanical & Environmental Characteristics

	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension ²	IEC 60794-1-2-E1	1.0 x W(N), min. 1200 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	0.5 x W(N), min. 600 N	Δa ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	3000 N / 100 mm, max. 15 min.	Δa ≤ 0.05 dB, No damage
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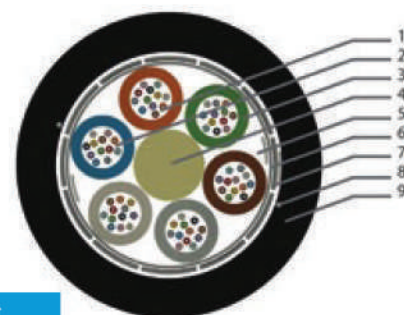


Application

	Minimum Bending Radius		Temperature Range	
Operation	20 x cable Ø	Storage	-40°C to +70°C	Installation -30°C to +60°C
Fixed	15 x cable Ø	Transport	-40°C to +70°C	Operating -40°C to +70°C

Marking, Packing, Delivery Lengths

Marking	XTND Kablo <Date of Manufacture> <Fiber Count and Type> <Length Marking>
Packing	Wooden drum with protection
Delivery Lengths	2 km, 4 km ± %5 tolerance



Test Standards

Low Smoke Test	Non-corrosiveness Test	Flame Retardancy Test
IEC 61034, EN 50268	IEC 60754, EN 50267	IEC 60332-1

Notes

¹ Optical fiber core could be applied as G.652.D, G.655, G.657.A1, G.657.A2, OM1, OM2, OM3, OM4 according to customer demand.

² Maximum tensile strength could be changed according to customer demand.

FIBER OPTIC CABLES

FC01-ST-A-SJ(GY12)

A-DQ(ZN)(SR)2Y

Cable Construction

- 1 - Optical fiber core ¹
- 2 - Waterproof thixotropic jelly
- 3 - PBT Tube
- 4 - Non-metallic strength member (Glass yarn)
- 5 - Ripcord
- 6 - Corrugated steel tape
- 7 - UV resistant polyethylene (HDPE) black outer jacket

Application

- Easy and fast installation due to its small diameter and light construction.
- Suitable for pushing, blowing method.
- In network systems, MAN, WAN, LAN applications.
- Rodent protection.

Mechanical & Environmental Characteristics

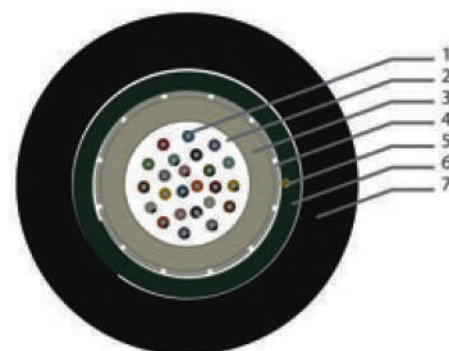
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Bending Radius	IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, No damage
Temperature Cycling	IEC 60794-1-2-F1	-20°C to +70°C	$\Delta\alpha \leq 0.05$ dB/km
Waterproofness	IEC 60794-1-2-F5B	Sample= 3 m, water column= 1 m	No water leakage in 24 hours.



Application

	Minimum Bending Radius
Operation	20 x cable Ø
Fixed	15 x cable Ø

	Temperature Range	
Storage	0°C to +70°C	Installation -30°C to +60°C
Transport	0°C to +70°C	Operating -20°C to +70°C



Marking, Packing, Delivery Lengths

Marking	XTND Kablo <Date of Manufacture> <Fiber Count and Type> <Length Marking>
Packing	Wooden drum with protection
Delivery Lengths	2 km, 4 km ± %5 tolerance

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² Maximum tensile strength could be changed according to customer demand.

Manufacturing Standard: TS EN 60794-3-12

FIBER OPTIC CABLES

FC01-ST-NA-SJHF(GY12)

U-DQ(ZN)H

Cable Construction

- 1 - Optical fiber core¹
- 2 - Waterproof thixotropic jelly
- 3 - PBT Tube
- 4 - Non-metallic strength member (Glass yarn)
- 5 - Ripcord
- 6 - UV resistant halogen-free (LSOH) outer jacket

Application

- Easy and fast installation due to its small diameter and light construction.
- Suitable for pushing, blowing method.
- Indoor and duct type applications; low smoke, zero halogen.
- Problem-free use in power lines due to its nonmetallic construction.
- In network systems, MAN, WAN, LAN applications.
- Rodent protection.

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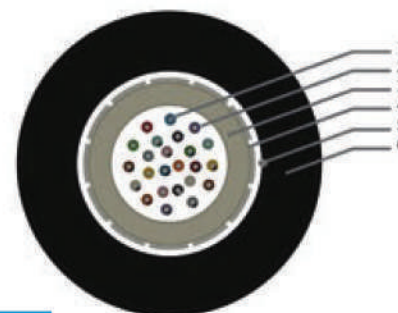


Application

	Minimum Bending Radius		Temperature Range	
Operation	20 x cable Ø	Storage	-25°C to +70°C	Installation -10°C to +60°C
Fixed	15 x cable Ø	Transport	-25°C to +70°C	Operating -20°C to +70°C

Marking, Packing, Delivery Lengths

Marking	XTND Kablo <Date of Manufacture> <Fiber Count and Type> <Length Marking>
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Delivery Lengths	2 km, 4 km ± %5 tolerance



Test Standards

Low Smoke Test	Non-corrosiveness Test	Flame Retardancy Test
IEC 61034, EN 50268	IEC 60754, EN 50267	IEC 60332-1

Notes

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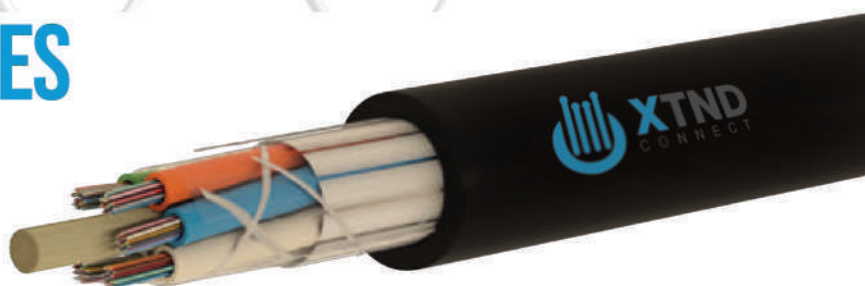
² Maximum tensile strength could be changed according to customer demand.

Manufacturing Standard: TS EN 60794-3-12

FIBER OPTIC CABLES

FC01-MT-NA-SJHF-(GY12)

U-DF(ZN)H



Application

- Easy and fast installation due to its small diameter and light construction.
- Suitable for pushing, blowing method.
- Indoor and duct type applications; low smoke, zero halogen.
- Problem-free use in power lines due to its nonmetallic construction.
- Rodent protection.
- Due to its thin construction, the cable could be used as an indoor cable.

Single loose tube, non-metallic armor fiber optic cable.

Cable Construction

- 1 - Optical fiber core¹
- 2 - Waterproof thixotropic jelly
- 3 - PBT Tube
- 4 - Non-metallic central strength member (FRP)
- 5 - Jelly filling
- 6 - Core Wrapping (Polyester Tape)
- 7 - Non-metallic strength member (Glass yarn)
- 8 - Ripcord
- 9 - UV resistant halogen-free (LSOH) outer jacket

Mechanical and Environmental Characteristics

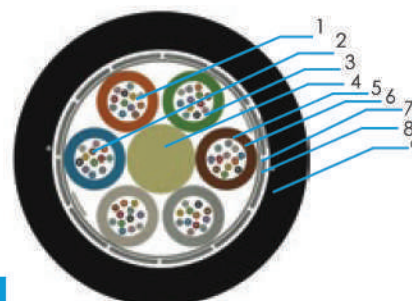
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Waterproofness	IEC 60794-1-2-F5B	Sample= 3 m, water column= 1 m	No water leakage in 24 hours.

Application

Minimum Bending Radius		Temperature Range			
Operation	20 x cable Ø	Storage	-40°C to +70°C	Installation	-30°C to +60°C
Fixed	15 x cable Ø	Transport	-40°C to +70°C	Operating	-40°C to +70°C

Marking, Packing, Delivery Lengths

Marking Packing	XTND Kablo <Date of Manufacture> <Fiber Count and Type> <Length Marking> Wooden drum with protection
Delivery Lengths	2 km, 4 km \pm %5 tolerance



Test Standards

Low Smoke Test	Non-corrosiveness Test	Flame Retardancy Test
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² Maximum tensile strength could be changed according to customer demand.

Manufacturing Standard: TS EN 60794-3-12

MICRODUCT CONNECTORS

Micro duct connectors are used for splicing two micro ducts together. It makes the splicing easy and quick, you have simply to push the micro ducts into the centre of the coupling, no tools are required. They should guarantee tensile strength and pressure more than 15 bar. Furthermore they are reusable and removable. Micro duct connectors are transparent to allow a visual inspection of micro cable passing through during installation. Canovate provides entire range of micro duct connectors in sizes from small to big, to match all common micro diameters, including straight connectors, reduce connectors, and gas block connectors.

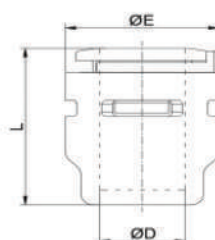
STRAIGHT TYPE



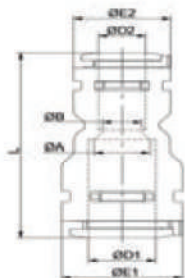
CODE	ØD(mm)	ØA(mm)	ØE(mm)	L(mm)
CAN-DSM07	7	6	14.9	32.4
CAN-DSM10	10	9	18.5	41.3
CAN-DSM12	12	11	21	46.5
CAN-DSM14	14	13	24.9	48.8
CAN-DSM16	16	15	27.8	52.5
CAN-DSM20	20	19	33	59

ENDSTOP

CODE	ØD(mm)	ØE(mm)	L(mm)
CAN-ES07	7	14.9	18.1
CAN-ES10	10	18.5	22.5
CAN-ES12	12	21	25.4
CAN-ES14	14	24.9	26.9
CAN-ES16	16	27.8	29.2
CAN-ES20	20	33	32.9



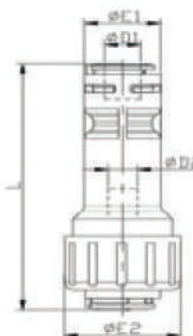
REDUCTION TYPE



CODE	ØA (mm)	ØB (mm)	ØD1 (mm)	ØD2 (mm)	ØE1 (mm)	ØE2 (mm)	L (mm)
RSM10/7	8.5	6	10	7	18.5	14.9	38.6
RSM12/10	10.5	9	12	10	21	18.5	46.0
RSM14/12	12.5	11	14	12	24.9	21	49.9

GAS BLOCK

CODE	ØD1(mm)	ØD2(mm)	ØE1(mm)	ØE2(mm)	L(mm)
GB07	7	5.7	14.9	22.5	63.9



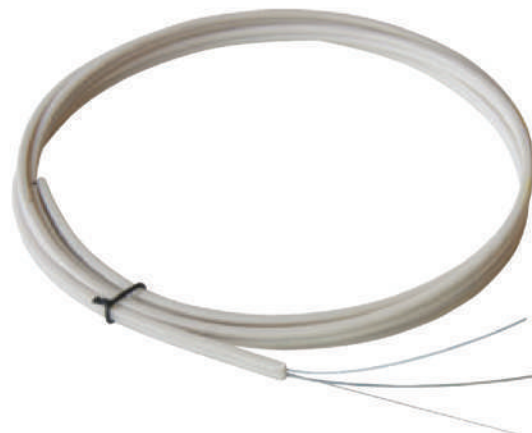
STANDARDS

EN 50411-2-8 : Microduct connectors Product specifications
 EN 61300-2-38:2006, Method A: Sealing performance EN 61300-2-38:2006, Method B: Pressure loss
 EN 61300-3-1: Visual appearance
 EN 61300-2-4: Microduct retention
 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
 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 EN 50411-2-8: Annex D: Installation test
 EN 50411-2-8: Annex E: Insertion force
 EN 60529: IP 68
 EN 61386-22: Glow Wire Test at 750 °C
 EN 61386-24: Conduit systems buried underground

FTTH CABLES INDOOR USE

DROP OPTICAL FIBER CABLE

- Simple structure, light weight and high tensile strength of cable, FTTX application
- Novel groove design, easy strip and splice, simplified installation and maintenance
- Low smoke, zero halogen and flame retardant sheath, environment and friendly, good safety

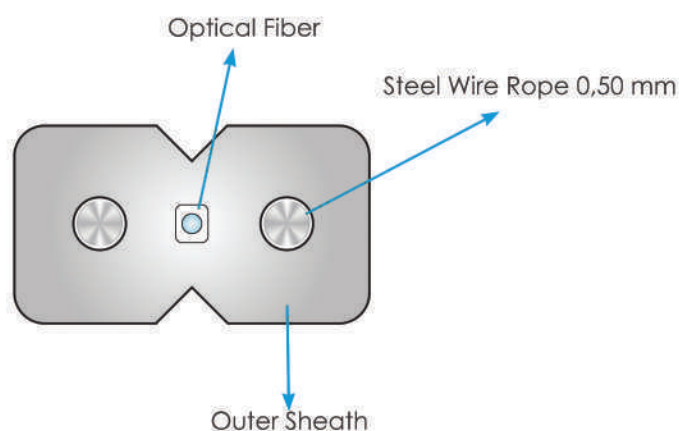


Fiber type	SM 9/125 G.657 A1, A2
Attenuation at 1310	Max. 0,36 dB/km
Attenuation at 1550 nm	Max. 0,25 dB/km



Parameters	Values	Up to 4 fiber
Number of tube	Pieces	1
Number of fiber	Fiber	Up to 4 fiber
Tensile Strength (Installation)	N	200
Tensile Strength (Operation)	N	100
Nominal Outer Diameter of cable	Nom mm D Nom mm H	(2,00 mm ±0,1) (3,00 mm ±0,1)
Color of Fiber	-	Blue, Orange, White, Yellow
Nominal Cable Weight	Kg/km	10,0
Nominal Gross Weight	Kg/drum	25
Drum Flange Diameter	cm	50
Nominal Cable Length on Drum	Meter/drum ±%3	2.000

Outer Sheath Material	LSZH/HFFR (IEC 60332-1-2)	
Color of Outer Sheath	Grey RAL 7035	
Cable Sizes	(2,00 mm ±0,1) x (3,00 mm ±0,1)	
Steel Rope Diameter	Nom 0,50 mm	
Tensile Strength (Installation)	200 N	IEC 60794-1 E1
Tensile Strength (Operation)	100 N	IEC 60794-1 E1
Crush Strength (Installation)	2.000N/100 mm	IEC 60794-1 E3
Crush Strength (Operation)	1.000N/100 mm	IEC 60794-1 E3
Bending Radius (Static)	15 mm	IEC 60794-1 E11
Bending Radius (Static)	30 mm	IEC 60794-1 E11
Drum Material	Poly-wood Drum	
Temperature Cycling	-30 / +70°C	IEC 60794-1 F1
Operation Temperature	-20 +60°C	IEC 60794-1 F1
Installation Temperature	-20 +60°C	IEC 60794-1 F1



Part No CAN-DI-FC-1

FTTH CABLES IN & OUTDOOR USE

DROP OPTICAL FIBER CABLE

- Simple structure, light weight and high tensile strength of cable, FTTX outdoor application
- Novel groove design, easy strip and splice, simplified installation and maintenance, higher tensile strength.
- Suitable as cable extending from outdoor (as aerial cable) to indoor/outdoor
- Low smoke, zero halogen and flame retardant sheath, environment and friendly, good safety

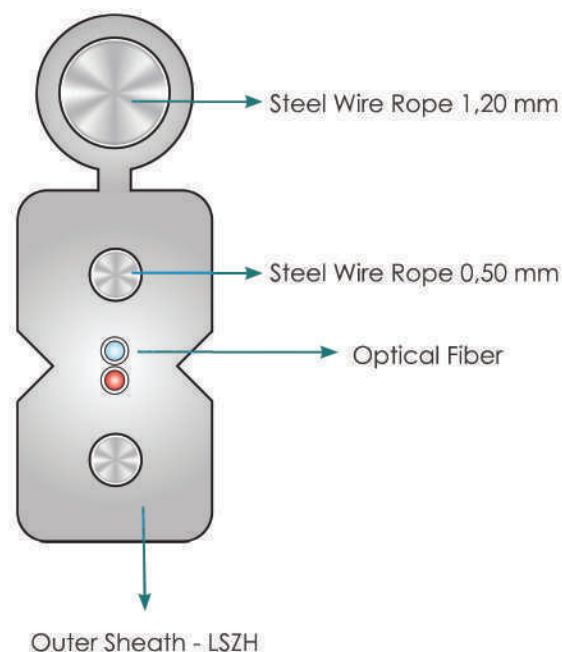


Fiber type	SM 9/125 G.657 A1, A2
Attenuation at 1310	Max. 0,36 dB/km
Attenuation at 1550 nm	Max. 0,25 dB/km



Parameters	Values	Up to 4 fiber
Number of tube	Pieces	1
Number of fiber	Fiber	Up to 4 fiber
Tensile Strength (Installation)	N	200
Tensile Strength (Operation)	N	100
Nominal Outer Diameter of cable	Nom mm D Nom mm H	(2,00 mm \pm 0,1) (3,00 mm \pm 0,1)
Color of Fiber	-	Blue, Orange, White, Yellow
Nominal Cable Weight	Kg/km	18,0
Nominal Gross Weight	Kg/drum	45
Drum Flange Diameter	cm	50
Nominal Cable Length on Drum	Meter/drum \pm 3	2.000

Outer Sheath Material	LSZH/HFFR (IEC 60332-1-2)	
Color of Outer Sheath	Grey RAL 7035	
Cable Sizes	(2,00 mm \pm 0,1) x (5,20 mm \pm 0,1)	
Steel Rope Diameter	Nom 2x 0,50 mm	
Steel Wire Diameter for Hanging	Nom 1,20 mm	
Tensile Strength (Installation)	600 N	IEC 60794-1 E1
Tensile Strength (Operation)	300 N	IEC 60794-1 E1
Crush Strength (Installation)	2.000N/100 mm	IEC 60794-1 E3
Crush Strength (Operation)	1.000N/100 mm	IEC 60794-1 E3
Bending Radius (Static)	15 mm	IEC 60794-1 E11
Bending Radius (Static)	30 mm	IEC 60794-1 E11
Drum Material	Poly-wood Drum	
Temperature Cycling	-30 / +70°C	IEC 60794-1 F1
Operation Temperature	-20 +60°C	IEC 60794-1 F1
Installation Temperature	-20 +60°C	IEC 60794-1 F1



Part No CAN-DO-FC-1



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