

FIBER OPTIC PRODUCTS



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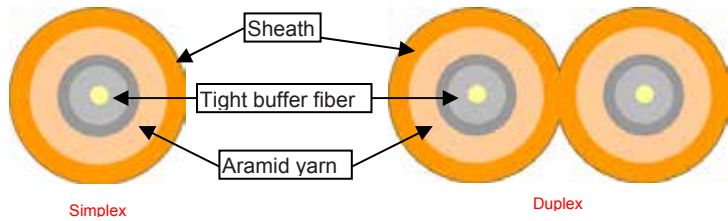
➤ In-door Simplex & Duplex Optical Fiber Cables

Application:

The interconnected cable contains double tight buffered fibers that are used as ideal cables of fiber to the workstation, patch cable in the closet, pigtails, patch cord, closet to the fetching port, fetching port to transceiver with their flexible tight buffer and high tensile aramid yarns armored.

Features:

- Small bending radius, light weight.
- High flexible, small coiling trail.
- Easy to install and terminate.
- Cable sheath: LSZH standard (PVC on request)
- Directly terminated with standard connectors with physical protection.



Cable Data:						
Fiber Count		Simplex		Duplex		
Outer Diameter D*H(mm)		2.0	3.0	1.6*3.3	2.0*4.1	2.8*5.7
Nominal Weight (kg/km)		3.5	6.8	5.7	8.2	13.2
Max. Tensile strength (N)	Short-term	100N	150N	160N	200N	300N
	Long-term	60N	80N	80N	100N	160N
Max. Crushing Resistance	Short-term	1000N/100mm ²				
	Long-term	300N/100mm ²				
Min. Bending Radius (mm)	Dynamic	20D mm				
	Static	10D mm				
Tight buffered characteristic		OD:0.87±0.05mm, Thickness: 0.31±0.02mm				
Temperature Range (°C)		-20 °C - +70 °C				

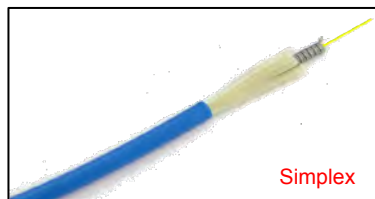
Ordering Information:

ITEM	SM 9/125 (G.652.B)	SM 9/125 (G.652.D)	SM 9/125 (G.655)	SM 9/125 (G.656)	SM 9/125 (G.657.A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
Sheath Color	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Aqua	Orange
Simplex 2.0 mm	NB-FOCA-073	NB-FOCA-073-52D	NB-FOCA-073-655	NB-FOCA-073-656	NB-FOCA-073-57A	NB-FOCA-075	NB-FOCA-075-OM3	NB-FOCA-074
Simplex 3.0 mm	NB-FOCA-004	NB-FOCA-004-52D	NB-FOCA-004-655	NB-FOCA-004-656	NB-FOCA-004-57A	NB-FOCA-006	NB-FOCA-006-OM3	NB-FOCA-005
Duplex 1.6x3.3 mm	NB-FOCA-107	NB-FOCA-107-52D	NB-FOCA-107-655	NB-FOCA-107-656	NB-FOCA-107-57A	NB-FOCA-108	NB-FOCA-108-OM3	NB-FOCA-109
Duplex 2.0x4.1mm	NB-FOCA-070	NB-FOCA-070-52D	NB-FOCA-070-655	NB-FOCA-070-656	NB-FOCA-070-57A	NB-FOCA-071	NB-FOCA-071-OM3	NB-FOCA-072
Duplex 2.8x5.7mm	NB-FOCA-001	NB-FOCA-001-52D	NB-FOCA-001-655	NB-FOCA-001-656	NB-FOCA-001-57A	NB-FOCA-002	NB-FOCA-002-OM3	NB-FOCA-003

➤ Ruggedized In-door Simplex & Duplex Optical Fiber Cables

Features:

- SUS flexible armored tube keeps the fiber protected from damage
- Resisting the destroy caused by harsh environment & improper operation such as pull strength
- pressing, bending, improper twisting and bite of ants or mice
- Secure transmission power to avoid additional attenuation in case of bending, bundling, and heavy load.
- Easy and quick for replacement
- Cable sheath: LSZH standard (PVC on request)
- RoHS
- 3.0mm Outer Jacket diameter



Cable Data:		
Fiber Count		Duplex
Outer Diameter D*H(mm)		5.7
Nominal Weight (kg/km)		38.0
Max. Tensile strength (N)		200
Max. Crushing Resistance		3000 N/100mm ²
Min. Bending Radius (mm)		25D mm
Tight buffered characteristic		OD:0.87±0.05mm, Thickness: 0.31±0.02mm
Temperature Range (°C)		-40 °C - +85 °C

Ordering Information:

ITEM	SM 9/125(G.652.B)	SM 9/125 (G.652.D)	SM 9/125 (G.655)	SM 9/125 (G.656)	SM 9/125 (G.657.A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
Sheath Color	Blue	Blue	Blue	Blue	Blue	Blue	Aqua	Blue
Simplex 3.0 mm	NB-FOCA-004-RGD	NB-FOCA-004-RGD-52D	NB-FOCA-004-RGD-655	NB-FOCA-004-RGD-656	NB-FOCA-004-RGD-57A	NB-FOCA-RGD-006	NB-FOCA-006-RGD-OM3	NB-FOCA-005-RGD
Duplex 5.7mm	NB-FOCA-001-RGD	NB-FOCA-001-RGD-52D	NB-FOCA-001-RGD-655	NB-FOCA-001-RGD-656	NB-FOCA-001-RGD-57A	NB-FOCA-002-RGD	NB-FOCA-002-RGD-OM3	NB-FOCA-003RGD

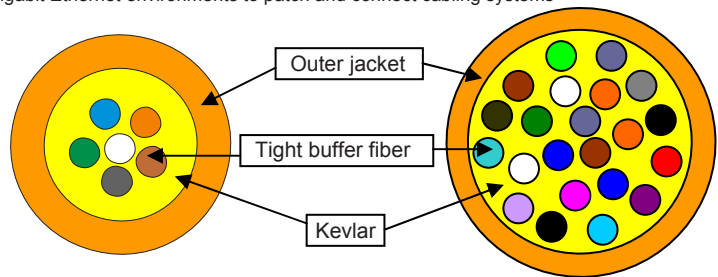
➤ In-door Distribution-Style Tight buffered Optical Fiber Cables

Application:

- These cables contains multiple tight buffers that are used as distribution cables of entrance equipment, equipment room, computer room to the closet, especially suitable for horizontal installation in building. Used in gigabit & multi-gigabit Ethernet environments to patch and connect cabling systems

Features:

- Up to 24 tight buffer Fibers
- Small bending radius, light weight.
- Metal free construction makes it immune to radio interference and electromagnetic interference.
- High flexible, small coiling trail.
- Easy to install and terminate.
- Cable sheath: LSZH standard (PVC on request)



Cable Data:						
Fiber Count		4	6	8	12	24
Outer Diameter D*H(mm)		4.8 ±0.2	5.2 ±0.2	6.2 ±0.2	6.8 ±0.3	8.4 ±0.5
Nominal Weight (kg/km)		18	23	29	37	61
Max. Tensile strength (N)	Short-term	270N	330N	480N	600N	720N
	Long-term	90N	110N	160N	200N	240N
Max. Crushing Resistance	Short-term	1000N/100mm ²				
	Long-term	300N/100mm ²				
Min. Bending Radius (mm)	Dynamic	20D mm				
	Static	10D mm				
Tight buffered characteristic		OD:0.87±0.05mm, Thickness: 0.31±0.02mm				
Temperature Range (°C)		-20 °C ~ +70 °C				

Ordering Information:

ITEM	SM 9/125 (G.652.B)	SM 9/125 (G.652.D)	SM 9/125 (G.655)	SM 9/125 (G.656)	SM 9/125 (G.657.A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
Sheath Color	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Aqua	Orange
4C (LSZH)	NB-FOCA-007	NB-FOCA-007-52D	NB-FOCA-007-655	NB-FOCA-007-656	NB-FOCA-007-57A	NB-FOCA-008	NB-FOCA-116	NB-FOCA-009
6C (LSZH)	NB-FOCA-011	NB-FOCA-011-52D	NB-FOCA-011-655	NB-FOCA-011-656	NB-FOCA-011-57A	NB-FOCA-012	NB-FOCA-078	NB-FOCA-013
8C (LSZH)	NB-FOCA-014	NB-FOCA-014-52D	NB-FOCA-014-655	NB-FOCA-014-656	NB-FOCA-014-57A	NB-FOCA-015	NB-FOCA-093	NB-FOCA-016
12C (LSZH)	NB-FOCA-017	NB-FOCA-017-52D	NB-FOCA-017-655	NB-FOCA-017-656	NB-FOCA-017-57A	NB-FOCA-018	NB-FOCA-079	NB-FOCA-019
24C (LSZH)	NB-FOCA-020	NB-FOCA-020-52D	NB-FOCA-020-655	NB-FOCA-020-656	NB-FOCA-020-57A	NB-FOCA-021	NB-FOCA-080	NB-FOCA-022

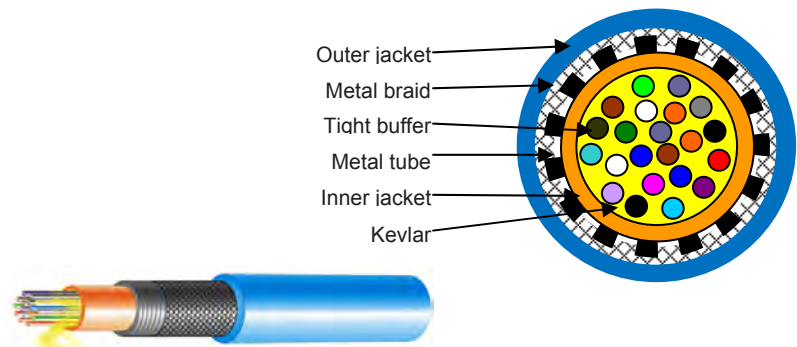
➤ Ruggedized Distribution-Style Tight buffered Optical Fiber Cables

Application:

- Ideal for use in vertical cabling of buildings and LAN
- Ideal for use in tails of backbone network, and connect from outdoors to indoors directly

Features:

- Up to 12 0.9mm Tight buffer
- Convenience for connection and construction
- High intensity and light weight
- Cable sheath: LSZH standard (PVC on request)
- Provide UV protection, waterproof, mouse-biting proof and mould proof, no cleft under stress, adapt to the environment for high fire rating



Cable Data:				
Fiber Count	4	6	8	12
Outer Diameter D*H(mm)	6.4 ±0.1	6.4 ±0.1	7.4 ±0.1	7.4 ±0.1
Nominal Weight (kg/km)	65	65	75	75
Max. Tensile strength (N)	800N			
Max. Crushing Resistance	3000N/100mm ²			
Min. Bending Radius (mm)	65	65	75	75
Tight buffered characteristic	OD:0.87±0.05mm, Thickness: 0.31±0.02mm			
Temperature Range (°C)	-40 °C ~ +85 °C			

Ordering Information:

ITEM	SM 9/125 (G.652.B)	SM 9/125 (G.652.D)	SM 9/125 (G.655)	SM 9/125 (G.656)	SM 9/125 (G.657.A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
Sheath Color	Blue	Blue	Blue	Blue	Blue	Blue	Aqua	Blue
4C (LSZH)	NB-FOCA-007-RGD	NB-FOCA-007-RGD-52D	NB-FOCA-007-RGD-655	NB-FOCA-007-RGD-656	NB-FOCA-007-RGD-57A	NB-FOCA-008-RGD	NB-FOCA-116-RGD-OM3	NB-FOCA-009-RGD
6C (LSZH)	NB-FOCA-011-RGD	NB-FOCA-011-RGD-52D	NB-FOCA-011-RGD-655	NB-FOCA-011-RGD-656	NB-FOCA-011-RGD-57A	NB-FOCA-012-RGD	NB-FOCA-078-RGD-OM3	NB-FOCA-013-RGD
8C (LSZH)	NB-FOCA-014-RGD	NB-FOCA-014-RGD-52D	NB-FOCA-014-RGD-655	NB-FOCA-014-RGD-656	NB-FOCA-014-RGD-57A	NB-FOCA-015-RGD	NB-FOCA-093-RGD-OM3	NB-FOCA-016-RGD
12C (LSZH)	NB-FOCA-017-RGD	NB-FOCA-017-RGD-52D	NB-FOCA-017-RGD-655	NB-FOCA-017-RGD-656	NB-FOCA-017-RGD-57A	NB-FOCA-018-RGD	NB-FOCA-079-RGD-OM3	NB-FOCA-019-RGD

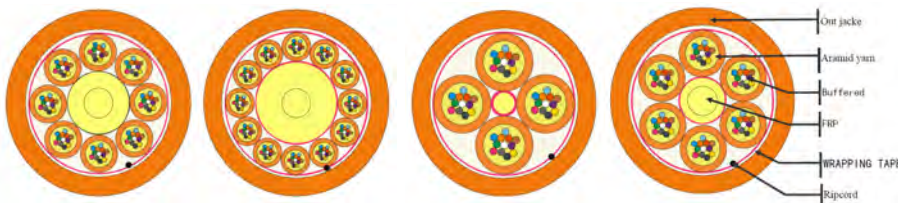
➤ In-door fan-out (Subgroup) Tight buffered Optical Fiber Cables

Application:

These cables contain multiple distribution cables (subgroup) that are suitable for vertical installation in building. Each subgroup distributes to different protection box of floor and applies for different working fields.

Features:

- Up to 144 tight buffer fibers
- Metal free construction makes it immune to radio interference and electromagnetic interference.
- Aramid yarn for round strength
- Easy to install and terminate.
- LSZH outer sheath (PVC on request).
- Easy splicing.
- Central strength member: FRP



Cable Data:

Fiber Count		24Core (4 unit)	36Core (4 unit)	48Core (6 unit)	72Core (6 unit)	96Core (6 unit)	108Core (6 unit)	144Core (12 unit)
Outer Diameter (mm)		15.5 ±0.8	18.8 ±0.8	20.0 ±0.8	21.0 ±0.8	25.8 ±0.8	26.2 ±0.8	28.2 ±0.8
Nominal Weight (kg/km)		182	245	305	328	500	545	699
Max. Tensile strength (N)	Short-term	1000	1200	2000	2500	3000	3000	4000
	Long-term	400	480	800	1000	1200	1200	1600
Max. Crushing Resistance	Short-term	1000N/100mm ²						
	Long-term	300N/100mm ²						
Min. Bending Radius (mm)	Dynamic	20D mm						
	Static	10D mm						
Tight buffered characteristic		OD:0.75±0.05mm						
Temperature Range Storage/Operation (°C)		-20 °C - +60 °C						

Ordering Information:

ITEM	SM 9/125 (G.652.B)	SM 9/125 (G.652.D)	SM 9/125 (G.655)	SM 9/125 (G.656)	SM 9/125 (G.657.A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
Sheath Color	Yellow	Yellow	Yellow	Yellow	Yellow	Orange	Aqua	Orange
24Core	NB-FOCA-152	NB-FOCA-152-52D	NB-FOCA-152-655	NB-FOCA-152-656	NB-FOCA-152-57A	NB-FOCA-153	NB-FOCA-153-OM3	NB-FOCA-154
36Core	NB-FOCA-110	NB-FOCA-110-52D	NB-FOCA-110-655	NB-FOCA-110-656	NB-FOCA-110-57A	NB-FOCA-111	NB-FOCA-111-OM3	NB-FOCA-112
48Core	NB-FOCA-113	NB-FOCA-113-52D	NB-FOCA-113-655	NB-FOCA-113-656	NB-FOCA-113-57A	NB-FOCA-114	NB-FOCA-114-OM3	NB-FOCA-115
72Core	NB-FOCA-142	NB-FOCA-142-52D	NB-FOCA-142-655	NB-FOCA-142-656	NB-FOCA-142-57A	NB-FOCA-143	NB-FOCA-143-OM3	NB-FOCA-144
96Core	NB-FOCA-145	NB-FOCA-145-52D	NB-FOCA-145-655	NB-FOCA-145-656	NB-FOCA-145-57A	NB-FOCA-146	NB-FOCA-146-OM3	NB-FOCA-147
108Core	NB-FOCA-155	NB-FOCA-155-52D	NB-FOCA-155-655	NB-FOCA-155-656	NB-FOCA-155-57A	NB-FOCA-156	NB-FOCA-156-OM3	NB-FOCA-157
144Core	NB-FOCA-148	NB-FOCA-148-52D	NB-FOCA-148-655	NB-FOCA-148-656	NB-FOCA-148-57A	NB-FOCA-149	NB-FOCA-149-OM3	NB-FOCA-150

➤ Stranded Loose tube Non-Armored Duct cable (Single jacket)

Description:

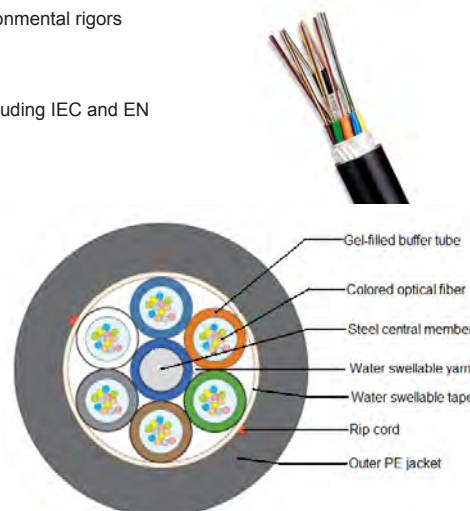
NetBox Single Jacket, Non-Armored Stranded Loose tube cables are lightweight with small diameter and designed for duct and aerial installation. The loose tube design with a metallic strength member provides stable performance over a wide range and is compatible with any telecommunication grade optical fiber.

Features:

- The loose tube stranding technology make of the fibers have good secondary excess length and allow the fibers free movement in the tube, which keeps the fiber stress-free while the cable is subjected to longitudinal stress.
- Proven loose tube design allows for easy mid-span access and isolate fibers from installation and environmental rigors
- Dry core design for excellent water blocking performance and easier handling
- Fiber colors by IEC60304: Blue/Orange/Green/Brown/Grey/White/Red/Black/Yellow/Violet/Pink/Aqua
- Polyethylene jacket is easy to strip, rugged and durable.
- Designed in accordance with applicable industry technical specifications, standards, and references including IEC and EN

Technical Data:

Item	Description		4 Core	96 Core
1	Min.Bending radius (mm)	Short term (loaded): 20*OD	208	258
		Long term (Installed): 10*OD	104	129
2	Maximum tensile load (N)		2700	2700
3	Nominal outer diameter (mm) ± 5%		10.4	12.9
4	Nominal cable weight (Kg/Km)		95	123
5	Crush resistance (N/10cm)		2000	2000
6	Outer sheath	Material	MDPE	MDPE
		Thickness	1.9mm	2.0mm
7	Loose tube	Material	PBT	PBT
		Outer diameter	2.0mm	2.3mm
8	Filler	Fibers/tube	4 Cores in a tube, (1)	12 Cores in a tube, (8)
		Material	PP	PP
9	Fiber type	No.	5	0
			SM G.652D fibers	SM G.652D fibers
10	Jelly compound	Material	Jelly	Jelly
11	Central member	Material	Steel wire	Steel wire
		Outer diameter	2.2	2.3
12	PE Up-coated	Material	---	PE
		Thickness	---	0.8
13	Water swellable yarn	Outer diameter	---	3.9
		No.	2	2
14	Rip cord	No.	2	2
15	Temperature	Operation/Storage	-40C° / 70C°	
		Installation	-20C° / 40C°	



Ordering Information:

ITEM	SM 9/125 (G652D)
4Core	NB-FOCA-076-52D
96Core	NB-FOCA-077-52D

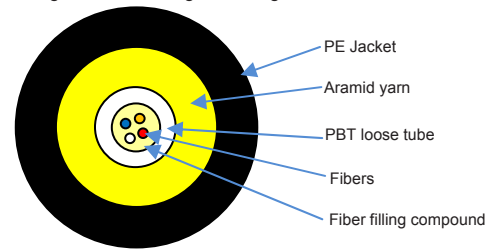
➤ Outdoor / Indoor Loose-Tube (Centrally Bundled) Optical Fiber Cable

Application:

The Minicables are suitable for installation in duct & aerial environment. They are also suitable for high voltage and low voltage crossing route.

Features:

- Up to 12 fibers
- Non metallic construction providing excellent lightning strike resistance.
- Aramid yarns armor providing excellent strain performance.
- Flexible, light weight provides ease of installation.
- Compact structure, super small outer diameter.
- Fiber protected by filling compound
- LSZH optional jacket



Cable Data:

Fiber Count		4	6	8	12
Outer Diameter D*H(mm)		8.3 ±0.3mm			
Nominal Weight (kg/km)		42			
Temperature Range (°C)		-40 °C - +70 °C			
Jacket Material & Thickness (mm)		MDPE 1.5 mm			
PBT Loose tube outer diameter (mm)		2.15mm ±0.10mm			
Loose tube gel		Waterproof gel			
Length per drum		2km/drum			
Min. Bending Radius (mm)	Dynamic	10D mm			
	Static	15D mm			
Max. Tensile strength (N)	Short-term	1500N			
	Long-term	800N			
Max. Crushing Resistance		2000N/100mm²			

Ordering Information:

ITEM	SM 9/125 (G.652.B)	SM 9/125 (G.652.D)	SM 9/125 (G.655)	SM 9/125 (G.656)	SM 9/125 (G.657.A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
4C	NB-FOCA-023	NB-FOCA-023-52D	NB-FOCA-023-655	NB-FOCA-023-656	NB-FOCA-023-57A	NB-FOCA-024	NB-FOCA-024-OM3	NB-FOCA-025
6C	NB-FOCA-026	NB-FOCA-026-52D	NB-FOCA-026-655	NB-FOCA-026-656	NB-FOCA-026-57A	NB-FOCA-028	NB-FOCA-028-OM3	NB-FOCA-029
8C	NB-FOCA-030	NB-FOCA-030-52D	NB-FOCA-030-655	NB-FOCA-030-656	NB-FOCA-030-57A	NB-FOCA-031	NB-FOCA-031-OM3	NB-FOCA-032
12C	NB-FOCA-033	NB-FOCA-033-52D	NB-FOCA-033-655	NB-FOCA-033-656	NB-FOCA-033-57A	NB-FOCA-034	NB-FOCA-034-OM3	NB-FOCA-035

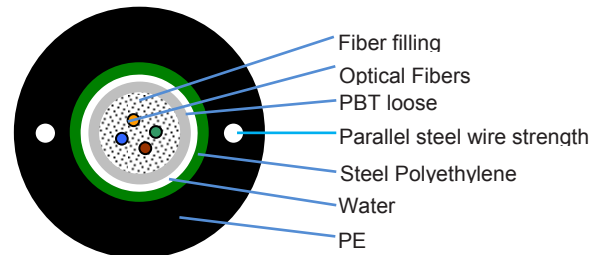
➤ Armoured Loose-Tube (Centrally Bundled) Outdoor Optical Fiber Cable

Application:

These central loose tube cables are suitable for installation in Duct, Direct buried & aerial environment for long haul communication, LAN.

Features:

- Up to 12 fibers
- Two parallel round steel wires enhance tensile strength
- Tension & crush resistance
- Good mechanical performance
- Jacket with ultra violet resistance property
- Fiber protected by filling compound
- LSZH optional jacket



Cable Data:

Fiber Count		4	6	8	12
Outer Diameter D*H(mm)		8.3±0.3mm			9.0±0.15mm
Nominal Weight (kg/km)		66			82
Temperature Range (°C)		-40 °C - +70 °C			
Jacket Material & Thickness (mm)		MDPE 1.5 mm			
PBT Loose tube diameter (mm)		2.2mm ±0.10mm			
Loose tube gel		Waterproof gel			
Length per drum		2km/drum			
Min. Bending Radius (mm)	Dynamic	20D mm			
	Static	10D mm			
Max. Tensile strength (N)	Short-term	2700N			
	Long-term	900N			
Max. Crushing Resistance		3000N/100mm²			

Ordering Information:

ITEM	SM 9/125 (G.652.B)	SM 9/125 (G.652.D)	SM 9/125 (G.655)	SM 9/125 (G.656)	SM 9/125 (G.657.A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
4C	NB-FOCA-045	NB-FOCA-045-52D	NB-FOCA-045-655	NB-FOCA-045-656	NB-FOCA-045-57A	NB-FOCA-046	NB-FOCA-046-OM3	NB-FOCA-047
6C	NB-FOCA-048	NB-FOCA-048-52D	NB-FOCA-048-655	NB-FOCA-048-656	NB-FOCA-048-57A	NB-FOCA-049	NB-FOCA-049-OM3	NB-FOCA-050
8C	NB-FOCA-051	NB-FOCA-051-52D	NB-FOCA-051-655	NB-FOCA-051-656	NB-FOCA-051-57A	NB-FOCA-052	NB-FOCA-052-OM3	NB-FOCA-053
12C	NB-FOCA-054	NB-FOCA-054-52D	NB-FOCA-054-655	NB-FOCA-054-656	NB-FOCA-054-57A	NB-FOCA-055	NB-FOCA-055-OM3	NB-FOCA-056

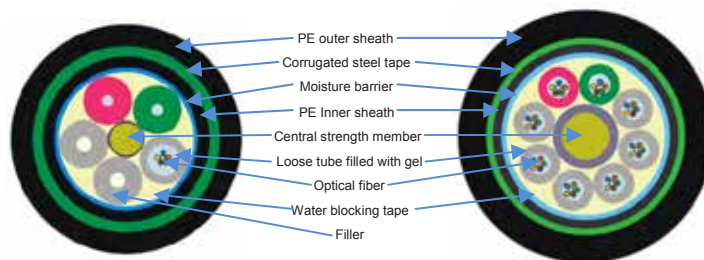
➤ Armored Direct Buried Double Sheath Loose Tube Optical fiber Cable

Application:

These corrugated steel tape armored and double sheath cables are suitable for installation in harsh environments where mechanical impact on the cable is to be expected, e.g. direct buried application. They are also suitable for installation in ducts where the rodent resistance is to be expected

Features:

- High tensile strength, good performance on mechanical stress, crush resistance, temperature and transmission.
- High Young's modulus phosphatized steel wire as central strength member, PE buffer extruded to outside of steel wire when necessary
- The loose tubes, cable core and all interstices filled with moisture-proof gel and compound, prevent water ingress longitudinally.
- The aluminum tape laminated on both sides with polyethylene and close bonded PE inner sheath possesses the function of radial moisture-proof for the cable.
- Longitudinal water blocking tape at the inner side of the steel tape tightly bonded to the MDPE sheath ensures radial moisture proof and reinforces mechanical crush resistance as well as prevents water ingress longitudinally.
- Corrugated steel tape armored and double PE sheath providing excellent crush resistance and rodent resistance.



Cable Data:

Fiber Count		2 - 60	62 - 72	74 - 96	98 - 120	122 - 144
Outer Diameter D*H(mm)		12.0±0.5mm	13.0±0.5mm	14.0±0.5mm	16.0±0.5mm	18.5±0.5mm
No. of tubes		5	6	8	10	12
Nominal Weight (kg/km)		145	196	230	270	360
Max. Tensile strength (N)	Short-term	3000	3000	3000	3000	3000
	Long-term	1000	1000	1000	1000	1000
Max. Crushing Resistance N/100mm ²	Short-term	3000	3000	3000	3000	3000
	Long-term	1000	1000	1000	1000	1000
Min. Bending Radius (mm)	Dynamic	25D				
	Static	12.5D				
Fiber Identification		Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua				
Armouring		Armoured steel tape (thickness: 1.5mm)				
Central strength member		Steel wire				
Alluminium moisture barrier		Yes				
Loose tubes		PBT loose tube, (Dia: 2.10mm ±0.15mm), (Nominal Thickness: 0.3mm)				
Loose Tube Identification		Red, Green				
Loose Tube Gel		Asynthetic waterproof gel				
Fillers Material		Polyethylene				
Inner Sheath Material & Thickness (mm)		PE 1.0 mm				
Outer Sheath Material & Thickness (mm)		PE 1.5 mm				
Temperature Range (°C)		-40 °C - +70 °C				

Tactic Rule for Loose Tube and Fiber:

	Number of Loose Tube											
	1	2	3	4	5	6	7	8	9	10	11	12
Fiber count	Red	Green	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature
2 ~ 12	Filler	Filler	Filler	Filler	Tube							
14 ~ 24	Filler	Filler	Filler	Tube	Tube							
26 ~ 36	Filler	Filler	Tube	Tube	Tube							
38 ~ 48	Filler	Tube	Tube	Tube	Tube							
50 ~ 60	Tube	Tube	Tube	Tube	Tube							
62 ~ 72	Tube	Tube	Tube	Tube	Tube	Tube						
74 ~ 84	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube				
86 ~ 96	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube				
98 ~ 108	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube		
110 ~ 120	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube		
122 ~ 132	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube
134 ~ 144	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube

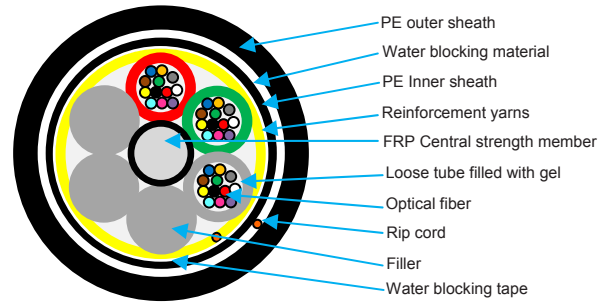
Ordering Information:

ITEM	SM 9/125 (G652B)	SM 9/125 (G652D)	SM 9/125 (G655)	SM 9/125 (G656)	SM 9/125 (G657A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
4Core	NB-FOCA-133	NB-FOCA-133-52D	NB-FOCA-133-655	NB-FOCA-133-656	NB-FOCA-133-57A	NB-FOCA-134	NB-FOCA-134-OM3	NB-FOCA-135
6Core	NB-FOCA-136	NB-FOCA-136-52D	NB-FOCA-136-655	NB-FOCA-136-656	NB-FOCA-136-57A	NB-FOCA-137	NB-FOCA-137-OM3	NB-FOCA-138
8Core	NB-FOCA-139	NB-FOCA-139-52D	NB-FOCA-139-655	NB-FOCA-139-656	NB-FOCA-139-57A	NB-FOCA-140	NB-FOCA-140-OM3	NB-FOCA-141
12Core	NB-FOCA-094	NB-FOCA-094-52D	NB-FOCA-094-655	NB-FOCA-094-656	NB-FOCA-094-57A	NB-FOCA-095	NB-FOCA-095-OM3	NB-FOCA-096
24Core	NB-FOCA-057	NB-FOCA-057-52D	NB-FOCA-057-655	NB-FOCA-057-656	NB-FOCA-057-57A	NB-FOCA-098	NB-FOCA-098-OM3	NB-FOCA-099
36Core	NB-FOCA-087	NB-FOCA-087-52D	NB-FOCA-087-655	NB-FOCA-087-656	NB-FOCA-087-57A	NB-FOCA-088	NB-FOCA-088-OM3	NB-FOCA-089
48Core	NB-FOCA-062	NB-FOCA-062-52D	NB-FOCA-062-655	NB-FOCA-062-656	NB-FOCA-062-57A	NB-FOCA-063	NB-FOCA-063-OM3	NB-FOCA-064
72Core	NB-FOCA-090	NB-FOCA-090-52D	NB-FOCA-090-655	NB-FOCA-090-656	NB-FOCA-090-57A	NB-FOCA-091	NB-FOCA-091-OM3	NB-FOCA-092
96Core	NB-FOCA-065	NB-FOCA-065-52D	NB-FOCA-065-655	NB-FOCA-065-656	NB-FOCA-065-57A	NB-FOCA-066	NB-FOCA-066-OM3	NB-FOCA-067
144Core	NB-FOCA-068	NB-FOCA-068-52D	NB-FOCA-068-655	NB-FOCA-068-656	NB-FOCA-068-57A	NB-FOCA-119	NB-FOCA-119-OM3	NB-FOCA-120

➤ Outdoor Non-metallic Duct & Direct Buried Double Sheath Loose Tube Optical fiber Cable

Features:

- Up to 144 fibers
- The loose tube stranding technology make of the fibers have good secondary excess length and allow the fibers free movement in the tube, which keeps the fiber stress-free while the cable is subjected to longitudinal stress.
- Non metallic construction providing excellent electric magnetic resistance and lightning resistance.
- Non metallic central member and yarns armored providing excellent strain performance.
- Light weight, less additional load to tower



Cable Data:

Fiber Count		2 - 60	62 - 72	74 - 96	98 - 120	122 - 144
Outer Diameter D*H(mm)		11.5±0.5	12.5±0.5	13.5±0.5	15.5±0.5	18.5±0.5
No. of tubes		5	6	8	10	12
Nominal Weight (kg/km)		116	149	182	220	296
Max. Tensile strength (N)	Short-term	2100	3000	3000	3000	3000
	Long-term	700	1000	1000	1000	1000
Max. Crushing Resistance N/100mm ²	Short-term	1200	1200	1200	1200	1200
	Long-term	400	400	400	400	400
Min. Bending Radius (mm)	Dynamic	20D				
	Static	10D				
Fiber Identification		Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua				
Central strength member		FRP				
Loose tubes		PBT loose tube, (Dia: 2.10mm ±0.15mm), (Nominal Thickness:0.3mm)				
Loose Tube Identification		Red, Green				
Loose Tube Gel		Asynthetic waterproof gel				
Fillers Material		Polyethylene				
Flooding Compound		Water proof gel				
Peripheral Strength Member		Reinforcement yarns				
Inner Sheath Material & Thickness (mm)		PE 1.0 mm				
Outer Sheath Material & Thickness (mm)		PE 1.5 mm				
Length per drum		2km/drum				
Temperature Range (°C)		-40 °C - +70 °C				

Tactic Rule for Loose Tube and Fiber:

	Number of Loose Tube											
	1	2	3	4	5	6	7	8	9	10	11	12
Fiber count	Red	Green	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature
2 ~ 12	Filler	Filler	Filler	Filler	Tube							
14 ~ 24	Filler	Filler	Filler	Tube	Tube							
26 ~ 36	Filler	Filler	Tube	Tube	Tube							
38 ~ 48	Filler	Tube	Tube	Tube	Tube							
50 ~ 60	Tube	Tube	Tube	Tube	Tube							
62 ~ 72	Tube	Tube	Tube	Tube	Tube	Tube						
74 ~ 84	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube				
86 ~ 96	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube			
98 ~ 108	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube		
110 ~ 120	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube		
122 ~ 132	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube
134 ~ 144	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube

Ordering Information:

ITEM	SM 9/125 (G652B)	SM 9/125 (G652D)	SM 9/125 (G655)	SM 9/125 (G656)	SM 9/125 (G657A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
4Core	NB-FOCA-121	NB-FOCA-121-52D	NB-FOCA-121-655	NB-FOCA-121-656	NB-FOCA-121-57A	NB-FOCA-122	NB-FOCA-122-OM3	NB-FOCA-123
6Core	NB-FOCA-124	NB-FOCA-124-52D	NB-FOCA-124-655	NB-FOCA-124-656	NB-FOCA-124-57A	NB-FOCA-125	NB-FOCA-125-OM3	NB-FOCA-126
8Core	NB-FOCA-127	NB-FOCA-127-52D	NB-FOCA-127-655	NB-FOCA-127-656	NB-FOCA-127-57A	NB-FOCA-128	NB-FOCA-128-OM3	NB-FOCA-129
12Core	NB-FOCA-100	NB-FOCA-100-52D	NB-FOCA-100-655	NB-FOCA-100-656	NB-FOCA-100-57A	NB-FOCA-101	NB-FOCA-101-OM3	NB-FOCA-102
24Core	NB-FOCA-103	NB-FOCA-103-52D	NB-FOCA-103-655	NB-FOCA-103-656	NB-FOCA-103-57A	NB-FOCA-104	NB-FOCA-104-OM3	NB-FOCA-105
36Core	NB-FOCA-081	NB-FOCA-081-52D	NB-FOCA-081-655	NB-FOCA-081-656	NB-FOCA-081-57A	NB-FOCA-082	NB-FOCA-082-OM3	NB-FOCA-083
48Core	NB-FOCA-039	NB-FOCA-039-52D	NB-FOCA-039-655	NB-FOCA-039-656	NB-FOCA-039-57A	NB-FOCA-040	NB-FOCA-040-OM3	NB-FOCA-041
72Core	NB-FOCA-084	NB-FOCA-084-52D	NB-FOCA-084-655	NB-FOCA-084-656	NB-FOCA-084-57A	NB-FOCA-085	NB-FOCA-085-OM3	NB-FOCA-086
96Core	NB-FOCA-042	NB-FOCA-042-52D	NB-FOCA-042-655	NB-FOCA-042-656	NB-FOCA-042-57A	NB-FOCA-043	NB-FOCA-043-OM3	NB-FOCA-044
144Core	NB-FOCA-130	NB-FOCA-130-52D	NB-FOCA-130-655	NB-FOCA-130-656	NB-FOCA-130-57A	NB-FOCA-131	NB-FOCA-131-OM3	NB-FOCA-132

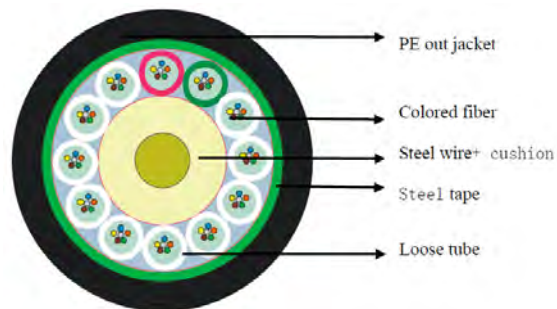
➤ Armored Direct Buried Single Sheath Loose Tube Optical fiber Cable

Application:

These corrugated steel tape armored cables are suitable for installation in harsh environments where mechanical impact on the cable is to be expected, e.g. direct buried application. They are also suitable for installation in ducts where the rodent resistance is to be expected

Features:

- Up to 144 fibers
- High Young's modulus phosphatized steel wire as central strength member
- The loose tubes, cable core and all interstices filled with moisture-proof gel and compound, prevent water ingress longitudinally.
- Longitudinal water blocking tape at the inner side of the steel tape ensures radial moisture proof and reinforces mechanical crush resistance as well as prevents water ingress longitudinally.
- Corrugated steel tape armored provide excellent crush resistance and rodent resistance.



Cable Data:

Fiber Count		2 - 60	62 - 72	74 - 96	98 - 144
Outer Diameter D*H(mm)		10.5±0.5mm	11.5±0.5mm	13.0±0.5mm	15.8±0.5mm
No. of tubes		5	6	8	12
Nominal Weight (kg/km)		112	138	165	222
Max. Tensile strength (N)	Short-term	1500	2000	2000	2500
	Long-term	600	600	600	800
Max. Crushing Resistance N/100mm ²	Short-term	1000	1000	1000	1000
	Long-term	300	300	300	300
Min. Bending Radius (mm)	Dynamic	25D			
	Static	12.5D			
Fiber Identification		Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua			
Armouring		coated steel tape (thickness: 1.5mm)			
Central strength member		Steel wire + cushion			
Water barrier tape		Yes			
Loose tubes		PBT loose tube, (Dia: 2.15mm ±0.05mm), (Nominal Thickness: 0.3mm)			
Loose Tube Identification		Red, Green			
Loose Tube Gel		Asynthetic waterproof gel			
Fillers Material		Polyethylene			
Outer Sheath Material & Thickness (mm)		PE 1.5 mm			
Length per drum		2km/drum			
Temperature Range (°C)		-40 °C - +70 °C			

Tactic Rule for Loose Tube and Fiber:

	Number of Loose Tube											
	1	2	3	4	5	6	7	8	9	10	11	12
Fiber count	Red	Green	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature
2 ~ 12	Filler	Filler	Filler	Filler	Tube							
14 ~ 24	Filler	Filler	Filler	Tube	Tube							
26 ~ 36	Filler	Filler	Tube	Tube	Tube							
38 ~ 48	Filler	Tube	Tube	Tube	Tube							
50 ~ 60	Tube	Tube	Tube	Tube	Tube							
62 ~ 72	Tube	Tube	Tube	Tube	Tube	Tube						
74 ~ 84	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube				
86 ~ 96	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube				
98 ~ 108	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube		
110 ~ 120	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube		
122 ~ 132	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube
134 ~ 144	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube

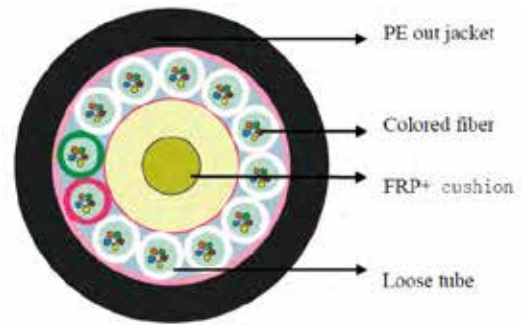
Ordering Information:

ITEM	SM 9/125 (G652B)	SM 9/125 (G652D)	SM 9/125 (G655)	SM 9/125 (G656)	SM 9/125 (G657A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
4Core	NB-FOCA-191	NB-FOCA-191-52D	NB-FOCA-191-655	NB-FOCA-191-656	NB-FOCA-191-57A	NB-FOCA-192	NB-FOCA-192-OM3	NB-FOCA-193
6Core	NB-FOCA-194	NB-FOCA-194-52D	NB-FOCA-194-655	NB-FOCA-194-656	NB-FOCA-194-57A	NB-FOCA-195	NB-FOCA-195-OM3	NB-FOCA-196
8Core	NB-FOCA-197	NB-FOCA-197-52D	NB-FOCA-197-655	NB-FOCA-197-656	NB-FOCA-197-57A	NB-FOCA-198	NB-FOCA-198-OM3	NB-FOCA-199
12Core	NB-FOCA-200	NB-FOCA-200-52D	NB-FOCA-200-655	NB-FOCA-200-656	NB-FOCA-200-57A	NB-FOCA-201	NB-FOCA-201-OM3	NB-FOCA-202
24Core	NB-FOCA-203	NB-FOCA-203-52D	NB-FOCA-203-655	NB-FOCA-203-656	NB-FOCA-203-57A	NB-FOCA-204	NB-FOCA-204-OM3	NB-FOCA-205
36Core	NB-FOCA-206	NB-FOCA-206-52D	NB-FOCA-206-655	NB-FOCA-206-656	NB-FOCA-206-57A	NB-FOCA-207	NB-FOCA-207-OM3	NB-FOCA-208
48Core	NB-FOCA-209	NB-FOCA-209-52D	NB-FOCA-209-655	NB-FOCA-209-656	NB-FOCA-209-57A	NB-FOCA-210	NB-FOCA-210-OM3	NB-FOCA-211
72Core	NB-FOCA-212	NB-FOCA-212-52D	NB-FOCA-212-655	NB-FOCA-212-656	NB-FOCA-212-57A	NB-FOCA-213	NB-FOCA-213-OM3	NB-FOCA-214
96Core	NB-FOCA-215	NB-FOCA-215-52D	NB-FOCA-215-655	NB-FOCA-215-656	NB-FOCA-215-57A	NB-FOCA-216	NB-FOCA-216-OM3	NB-FOCA-217
144Core	NB-FOCA-218	NB-FOCA-218-52D	NB-FOCA-218-655	NB-FOCA-218-656	NB-FOCA-218-57A	NB-FOCA-219	NB-FOCA-219-OM3	NB-FOCA-220

➤ Outdoor Non-metallic Duct Single Sheath Loose Tube Optical fiber Cable

Features:

- Up to 144 fibers
- The loose tube stranding technology make of the fibers have good secondary excess length and allow the fibers free movement in the tube, which keeps the fiber stress-free while the cable is subjected to longitudinal stress.
- Non metallic construction providing excellent electric magnetic resistance and lightning resistance.
- Non metallic central member provide excellent strain performance.
- Light weight, less additional load to Tower



Cable Data:

Fiber Count		2 - 60	62 - 72	74 - 96	98 - 120	122 - 144
Outer Diameter D*H(mm)		11.5±0.5	12.5±0.5	13.5±0.5	15.5±0.5	18.5±0.5
No. of tubes		5	6	8	10	12
Nominal Weight (kg/km)		116	149	182	220	296
Max. Tensile strength (N)	Short-term	2100	3000	3000	3000	3000
	Long-term	700	1000	1000	1000	1000
Max. Crushing Resistance N/100mm ²	Short-term	1200	1200	1200	1200	1200
	Long-term	400	400	400	400	400
Min. Bending Radius (mm)	Dynamic	20D				
	Static	10D				
Fiber Identification		Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua				
Central strength member		FRP				
Water barrier tape		Yes				
Loose tubes		PBT loose tube, (Dia: 2.10mm ±0.15mm), (Nominal Thickness:0.3mm)				
Loose Tube Identification		Red, Green				
Loose Tube Gel		Asynthetic waterproof gel				
Fillers Material		Polyethylene				
Flooding Compound		Water proof gel				
Peripheral Strength Member		Reinforcement yarns				
Inner Sheath Material & Thickness (mm)		PE 1.0 mm				
Outer Sheath Material & Thickness (mm)		PE 1.5 mm				
Length per drum		2km/drum				
Temperature Range (°C)		-40 °C - +70 °C				

Tactic Rule for Loose Tube and Fiber:

	Number of Loose Tube											
	1	2	3	4	5	6	7	8	9	10	11	12
Fiber count	Red	Green	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature	Nature
2 ~ 12	Filler	Filler	Filler	Filler	Tube							
14 ~ 24	Filler	Filler	Filler	Tube	Tube							
26 ~ 36	Filler	Filler	Tube	Tube	Tube							
38 ~ 48	Filler	Tube	Tube	Tube	Tube							
50 ~ 60	Tube	Tube	Tube	Tube	Tube							
62 ~ 72	Tube	Tube	Tube	Tube	Tube	Tube						
74 ~ 84	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube				
86 ~ 96	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube			
98 ~ 108	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube		
110 ~ 120	Tube	Tube	Tube	Tube	ube	Tube	Tube	Tube	ube	Tube		
122 ~ 132	Filler	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube
134 ~ 144	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube	Tube

Ordering Information:

ITEM	SM 9/125 (G652B)	SM 9/125 (G652D)	SM 9/125 (G655)	SM 9/125 (G656)	SM 9/125 (G657A)	MM 50/125	OM3 MaxBand 300	MM 62.5/125
4Core	NB-FOCA-161	NB-FOCA-161-52D	NB-FOCA-161-655	NB-FOCA-161-656	NB-FOCA-161-57A	NB-FOCA-162	NB-FOCA-162-OM3	NB-FOCA-163
6Core	NB-FOCA-164	NB-FOCA-164-52D	NB-FOCA-164-655	NB-FOCA-164-656	NB-FOCA-164-57A	NB-FOCA-165	NB-FOCA-165-OM3	NB-FOCA-166
8Core	NB-FOCA-167	NB-FOCA-167-52D	NB-FOCA-167-655	NB-FOCA-167-656	NB-FOCA-167-57A	NB-FOCA-168	NB-FOCA-168-OM3	NB-FOCA-169
12Core	NB-FOCA-170	NB-FOCA-170-52D	NB-FOCA-170-655	NB-FOCA-170-656	NB-FOCA-170-57A	NB-FOCA-171	NB-FOCA-171-OM3	NB-FOCA-172
24Core	NB-FOCA-173	NB-FOCA-173-52D	NB-FOCA-173-655	NB-FOCA-173-656	NB-FOCA-173-57A	NB-FOCA-174	NB-FOCA-174-OM3	NB-FOCA-175
36Core	NB-FOCA-176	NB-FOCA-176-52D	NB-FOCA-176-655	NB-FOCA-176-656	NB-FOCA-176-57A	NB-FOCA-177	NB-FOCA-177-OM3	NB-FOCA-178
48Core	NB-FOCA-179	NB-FOCA-179-52D	NB-FOCA-179-655	NB-FOCA-179-656	NB-FOCA-179-57A	NB-FOCA-180	NB-FOCA-180-OM3	NB-FOCA-181
72Core	NB-FOCA-182	NB-FOCA-182-52D	NB-FOCA-182-655	NB-FOCA-182-656	NB-FOCA-182-57A	NB-FOCA-183	NB-FOCA-183-OM3	NB-FOCA-184
96Core	NB-FOCA-185	NB-FOCA-185-52D	NB-FOCA-185-655	NB-FOCA-185-656	NB-FOCA-185-57A	NB-FOCA-186	NB-FOCA-186-OM3	NB-FOCA-187
144Core	NB-FOCA-188	NB-FOCA-188-52D	NB-FOCA-188-655	NB-FOCA-188-656	NB-FOCA-188-57A	NB-FOCA-189	NB-FOCA-189-OM3	NB-FOCA-190

➤ Bare Fibre Datasheets

50/125µm Graded-Index Multimode fiber

50/125µm Multimode Fibre complies with or exceeds ISO/IEC 11801 OM2 specification, IEC 60793-2-10 type A1a.1 Optical Fiber Specification and TIA/EIA-492AAAB-A detail specification.

Features

- Produced by the PCVD process
- Extremely refined refractive index profile
- Low attenuation
- High bandwidth at both 850nm and 1300nm wavelengths
- Coated with dual layer UV curable acrylate

Benefits and Applications

- Superior geometry, uniformity and purity of glass
- Local area networks (LAN)
- Video, voice and data services
- Gigabit Ethernet (IEEE 802.3z) using laser or light emitting diode (LED) sources
- Optimized performance in tight-buffer cable applications
- High resistance to micro bending
- Stable performance over a wide range of environmental conditions

Product Specifications

Geometrical Characteristics

Core Diameter (µm)	50±2.5
Cladding Diameter (µm)	125.0±1.0
Cladding Non-Circularity (%)	≤1.0
Coating Diameter (µm)	245±7
Coating/Cladding Concentricity Error (µm)	≤12.0
Coating Non-Circularity (%)	≤6.0
Core/Cladding Concentricity Error (µm)	≤1.5

Optical Characteristics

		Class A	Class B
Attenuation (dB/km)	850nm	≤2.3	≤2.5
	1300nm	≤0.6	≤0.7
Minimum Modal Bandwidth (MHz.km)	850nm	≥600	≥500
	1300nm	≥1200	≥500
Numerical Aperture		0.200±0.015	
Group Refractive Index	850nm	1.482	
	1300nm	1.477	
Zero Dispersion Wavelength (nm)		1295-1320	
Zero Dispersion Slope (ps/(nm ² .km))	1295-1300nm	≤0.001*(λ _o -1190)	
	1300-1320nm	≤0.11	
Macro bending induced loss	850nm	≤0.50	
100 turns @ 60 mm diameter	1300nm	≤0.50	

Backscatter Characteristics (1300nm)

Step (Mean of bidirectional measurement) (dB)	≤0.10
Irregularities over fibre length and point discontinuity (dB)	≤0.10
Attenuation uniformity (dB/km)	≤0.08

Environmental Characteristics (850nm & 1300nm)

Temperature dependence induced attenuation at -60°C to +85°C (dB/km)	≤0.10
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH (dB/km)	≤0.10
Water soak dependence induced attenuation at 23°C for 30 days (dB/km)	≤0.10
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30 days (dB/km)	≤0.10
Dry heat aging at 85°C (dB/km)	≤0.10

Mechanical Specification

Proof test	(N)	≥9.0
	(%)	≥1.0
	(kpsi)	≥100
Coating strip force (N)	Typical average force	1.5
	Peak force	≥1.3 ≤8.9
Dynamic stress corrosion susceptibility parameter n ^d		≥27

62.5/125µm Graded-Index Multimode fiber

62.5/125µm Multimode Fibre complies with or exceeds ISO/IEC 11801 OM1 specification, IEC 60793-2-10 type A1b Optical Fiber Specification and TIA/EIA-492AAAA-A detail specification.

Features

- Produced by the PCVD process
- Extremely refined refractive index profile
- Low attenuation
- High bandwidth at both 850nm and 1300nm wavelengths
- Coated with dual layer UV curable acrylate

Benefits and Applications

- Superior geometry, uniformity and purity of glass
- Local area networks (LAN)
- Video, voice and data services
- Gigabit Ethernet (IEEE 802.3z) using laser or light emitting diode (LED) sources
- Optimized performance in tight-buffer cable applications
- High resistance to micro bending
- Stable performance over a wide range of environmental conditions

Product Specifications

Geometrical Characteristics

Core Diameter (µm)	62.5±2.5
Cladding Diameter (µm)	125.0±1.0
Cladding Non-Circularity (%)	≤1.0
Coating Diameter (µm)	245±7
Coating/Cladding Concentricity Error (µm)	≤12.0
Coating Non-Circularity (%)	≤6.0
Core/Cladding Concentricity Error (µm)	≤1.5

Optical Characteristics

Attenuation (dB/km)	850nm	≤2.7
	1300nm	≤0.6
Minimum Modal Bandwidth (MHz.km)	850nm	≥200
	1300nm	≥600
Numerical Aperture		0.275±0.015
Group Refractive Index	850nm	1.496
	1300nm	1.491
Zero Dispersion Wavelength (nm)		1320-1365
Zero Dispersion Slope (ps/(nm ² .km))		≤0.097
Macro bending induced loss	850nm	≤0.50
100 turns @ 60 mm diameter	1300nm	≤0.50

Backscatter Characteristics (1300nm)

Step (Mean of bidirectional measurement) (dB)	≤0.10
Irregularities over fibre length and point discontinuity (dB)	≤0.10
Attenuation uniformity (dB/km)	≤0.10

Environmental Characteristic (850nm & 1300nm)

Temperature dependence induced attenuation at -60°C to +85°C (dB/km)	≤0.10
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH (dB/km)	≤0.10
Water soak dependence induced attenuation at 23°C for 30 days (dB/km)	≤0.10
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30 days (dB/km)	≤0.10
Dry heat aging at 85°C (dB/km)	≤0.10

Mechanical Specification

Proof test	(N)	≥9.0
	(%)	≥1.0
	(kpsi)	≥100
Coating strip force (N)	Typical average force	1.5
	Peak force	≥1.3 ≤8.9
Dynamic stress corrosion susceptibility parameter n ^d		≥27

MaxBand® - OM2+/OM3/OM4 - Multimode fiber

MaxBand® - OM2+ - Multimode Fibre complies with or exceeds ISO/IEC 11801 OM2 specification, IEC 60793-2-10 type A1a.1 Optical Fiber Specification and TIA/EIA-492AAAB-A detail specification. MaxBand® - OM3/OM4 - Multimode Fibre comply with or exceeds ISO/IEC 11801 OM3/OM4 specification, IEC 60793-2-10 type A1a.2 and A1a.3 (in preparation) Optical Fiber Specification and TIA/EIA-492AAAC/492AAAD detail specification.

Features

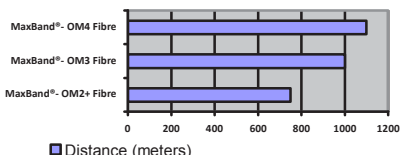
- 850nm laser-optimized
- Specially designed for 10Gb/s Ethernet applications using low cost 850nm VCSELS
- Extremely refined refractive index profile
- Low attenuation
- Supporting 40 & 100 Gb/s applications
- Low differential mode delay (DMD)

Benefits and Applications

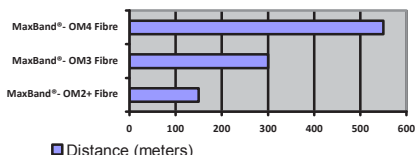
- Superior geometry, uniformity and purity of glass
- Local area networks (LAN)
- Central offices
- Data centers
- High performance computing centers
- Storage Area Networks
- 1, 10, 40, & 100 Gb/s Ethernet
- Optimized performance in tight-buffer cable applications
- High resistance to micro bending
- Stable performance over a wide range of environmental conditions

System Link Length

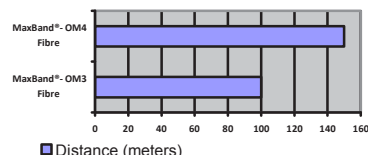
1 Gb/s Link Length @850nm Based on IEEE802.3z



10 Gb/s Link Length @850nm Based on IEEE802.3ae



40 & 100 Gb/s Link Length @850nm Based on IEEE802.3ba



Product Specifications

Geometrical Characteristics

Core Diameter (µm)	50±2.5
Core Non-Circularity (%)	≤5.0
Cladding Diameter (µm)	125.0±1.0
Cladding Non-Circularity (%)	≤1.0
Coating Diameter (µm)	245±7
Coating/Cladding Concentricity Error (µm)	≤12.0
Coating Non-Circularity (%)	≤6.0
Core/Cladding Concentricity Error (µm)	≤1.0

Optical Characteristics

	850nm	1300nm	MaxBand® -OM2+	MaxBand® -OM3	MaxBand® -OM4
Attenuation (dB/km)	≤2.3	≤0.6			
OFL Bandwidth (MHz.km)	850nm: ≥700 1300nm: ≥500		≥700	≥1500	≥3500
Effective Model Bandwidth @850nm (MHz.km)			≥950	≥2000	≥4700
Application support distance on:					
Gigabit Ethernet SX 850nm (m)			750	1000	1100
Gigabit Ethernet LX 1300nm (m)			600	600	600
10 Gigabit Ethernet SX 850nm (m)			150	300	550
40&100 Gigabit Ethernet SX 850nm (m)			-	100	150

DMD Specification: DMD specifications are compliant with and more stringent than the requirements of IEC60793-2-10 (type A1a.2 for OM3 and type A1a.3 for OM4 (under development) and TIA-492AAAC (OM3) and 492AAAD (OM4).

Numerical Aperture		0.200±0.015
Group Refractive Index	850nm: 1.482 1300nm: 1.477	
Zero Dispersion Wavelength (nm)		1295-1320
Zero Dispersion Slope (ps/(nm².km))	1295-1300nm: ≤0.001*(λ₀ - 1190) 1300-1320nm: ≤0.11	
Macro bending induced loss	850nm: ≤0.50 100 turns @ 30mm diameter	1300nm: ≤0.50

Backscatter Characteristics (1300nm)

Step (Mean of bidirectional measurement) (dB)	≤0.10
Irregularities over fibre length and point discontinuity (dB)	≤0.10
Attenuation uniformity (dB/km)	≤0.08

Environmental Characteristics (850nm & 1300nm)

Temperature dependence induced attenuation at -60°C to +85°C (dB/km)	≤0.10
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH (dB/km)	≤0.10
Water soak dependence induced attenuation at 23°C for 30 days (dB/km)	≤0.10
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30 days (dB/km)	≤0.10
Dry heat aging at 85°C (dB/km)	≤0.10

Mechanical Specification

Proof test	(N): ≥9.0 (%): ≥1.0 (kpsi): ≥100
Coating strip force (N)	Typical average force: 1.5 Peak force: ≥1.3 ±8.9
Dynamic stress corrosion susceptibility parameter n ^d	≥27

Matched Cladding Singlemode fiber (G.652B)

MCSM fibre complies with or exceeds the ITU-T Recommendation G.652.B Optical fibre specification.

Characteristics

- Low attenuation and low dispersion satisfying the operation demand at 1310nm and 1550nm
- Low PMD satisfying the high bit-rate and long distance transmission links
- Good protection and excellent strip force stability
- Accurate geometrical parameters that insure low splicing loss and high splicing efficiency

Product Specifications

Geometrical Characteristics

Cladding Diameter (μm)	125.0±1.0
Cladding Non-Circularity (%)	≤1.0
Coating Diameter (μm)	245±7
Coating/Cladding Concentricity Error (μm)	≤12.0
Coating Non-Circularity (%)	≤6.0
Coating/Cladding Concentricity Error (μm)	≤0.6
Curl (radius) (m)	≥4

Optical Characteristics

Attenuation (dB/km)	1310nm	≤0.34
	1550nm	≤0.20
	1625nm	≤0.24
Attenuation vs. Wavelength	1285~1330 nm	≤0.03 dB/km
Max. α difference	1525~1575 nm	≤0.02 dB/km
Dispersion coefficient	1285~1340 nm	≥-3.5 ≤3.5 ps/(nm/km)
	1550 nm	≤18 ps/(nm/km)
	1625 nm	≤22 ps/(nm/km)
Zero Dispersion Wavelength (nm)		1312±12
Zero Dispersion Slope (ps/(nm².km))		≤0.091
Typical value (ps/(nm².km))		0.086

PMD

Maximum Individual Fibre ps/√km		≤0.2
Link Design Value (M=20, Q=0.01%) ps/√km		≤0.1
Typical value ps/√km		0.04
Cable cutoff wavelength λ _c		≤1260 nm
Mode field diameter (MFD)	1310 nm	8.8~9.6 μm
	1550 nm	9.9~10.9 μm
Effective group index of refraction (N _e ^{ff})	1310 nm	1.466
	1550 nm	1.467
Point discontinuities	1310 nm	≤0.05
	1550 nm	≤0.05

Environmental Characteristics (1310 nm, 1550 nm & 1625 nm)

Temperature dependence induced attenuation at -60°C to +85°C	≤0.05 (dB/km)
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH	≤0.05 (dB/km)
Water soak dependence induced attenuation at 23°C for 30 days	≤0.05 (dB/km)
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30 days	≤0.05 (dB/km)
Dry heat aging at 85°C	≤0.05 (dB/km)

Mechanical Specification

Proof test (off line)	(N)	≥9.0
	(%)	≥1.0
	(kpsi)	≥100
Macro-bend induced attenuation		
1 turn around a mandrel of 32mm diameter	1550 nm	≤0.05 dB
100 turn around a mandrel of 50mm diameter	1310 & 1550 nm	≤0.05 dB
100 turn around a mandrel of 60mm diameter	1625 nm	≤0.05 dB
Coating strip force (N)	Typical average force	1.7
	Peak force	≥1.3 ≤8.9
Dynamic stress corrosion susceptibility parameter n ^d		≥20

FullBand® Low Water Peak Singlemode fiber (G.652D)

FullBand® fibre complies with or exceeds the ITU-T Recommendation G.652.D and the IEC 60793-2-50 type B1.3 Optical fibre specification.

Characteristics & Application

- Designed for operation over the full optical spectrum from 1260-1625 nm, which provides 50% more usable wavelengths and hence the transmission capacity is increased
- Outstanding optical performance supporting high-speed transmission technologies such as DWDM and CWDM
- Being compatible with existing 1310nm equipment
- Good protection and excellent strip force stability
- Accurate geometrical parameters that insure low splicing loss and high splicing efficiency
- Supports Ethernet, Internet Protocol (IP), Asynchronous Transfer Mode (ATM), Synchronous Optical Network (SONET) and Wavelength Division Multiplexing (WDM). Enables bandwidth demanding of multi-service like voice, digital and image transmission

Product Specifications

Geometrical Characteristics

Cladding Diameter (μm)	125.0±1.0
Cladding Non-Circularity (%)	≤1.0
Coating Diameter (μm)	245±7
Coating/Cladding Concentricity Error (μm)	≤12.0
Coating Non-Circularity (%)	≤6.0
Core/Cladding Concentricity Error (μm)	≤0.6
Curl (radius) (m)	≥4

Optical Characteristics

Attenuation (dB/km)	1310nm	≤0.34
	1383nm	≤0.34
	1550nm	≤0.20
	1625nm	≤0.24
Attenuation vs. Wavelength	1285~1330 nm	≤0.03 dB/km
Max. α difference	1525~1575 nm	≤0.02 dB/km
Dispersion coefficient	1285~1340 nm	≥-3.4 ≤3.4 ps/(nm/km)
	1550 nm	≤18 ps/(nm/km)
	1625 nm	≤22 ps/(nm/km)
Zero Dispersion wavelength (nm)		1312±12
Zero Dispersion Slope (ps/(nm².km))		≤0.091
Typical value (ps/(nm².km))		0.086

PMD

Maximum Individual Fibre ps/√km		≤0.2
Link Design Value (M=20, Q=0.01%) ps/√km		≤0.1
Typical value ps/√km		0.04
Cable cutoff wavelength λ _c		≤1260 nm
Mode field diameter (MFD)	1310 nm	8.8~9.6 μm
	1550 nm	9.9~10.9 μm
Effective group index of refraction (N _{e^{ff}})	1310 nm	1.466
	1550 nm	1.467
Point discontinuities	1310 nm	≤0.05
	1550 nm	≤0.05

Environmental Characteristics (1310 nm, 1550 nm & 1625 nm)

Temperature dependence induced attenuation at -60°C to +85°C	≤0.05 (dB/km)
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH	≤0.05 (dB/km)
Water soak dependence induced attenuation at 23°C for 30 days	≤0.05 (dB/km)
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30 days	≤0.05 (dB/km)
Dry heat aging at 85°C	≤0.05 (dB/km)

Mechanical Specification

Proof test (off line)	(N)	≥9.0
	(%)	≥1.0
	(kpsi)	≥100
Macro-bend induced attenuation		
1 turn around a mandrel of 32mm diameter	1550 nm	≤0.05 dB
100 turn around a mandrel of 50mm diameter	1310 & 1550 nm	≤0.05 dB
100 turn around a mandrel of 60mm diameter	1625 nm	≤0.05 dB
Coating strip force (N)	Typical average force	1.7
	Peak force	≥1.3 ≤8.9
Dynamic stress corrosion susceptibility parameter n ^d		≥20

Large Effective Area High Capacity Positive Dispersion Shifted Singlemode fiber (G.655)

LAPOSH® fibre complies with or exceeds the ITU-T Recommendation G.655 Optical fibre specification.

Characteristics & Application

- Being applicable in the high bit-rate operation across 1530-1565nm and 1565-1625nm band
- Large effective area ensures good economic return from the transmission system
- Low attenuation, low dispersion, low PMD and low zero dispersion slope that satisfy the demand of transmission links
- Good protection and excellent strip force stability
- Accurate geometrical parameters that insure low splicing loss and high splicing efficiency
- Low bending induced loss at 1550nm and at the more sensitive 1625nm wavelength
- This fibre is suitable for application of high output power Erbium Doped Fibre Amplifier (EDFA) and multi-channel Dense Wavelength Division Multiplex (DWDM), and can be effectively applied in the high bit-rate both single and multi-channel, long distance digital transmission links even without dispersion compensation

Product Specifications

Geometrical Characteristics

Cladding Diameter (μm)	125.0±1.0
Cladding Non-Circularity (%)	≤1.0
Coating Diameter (μm)	245±7
Coating/Cladding Concentricity Error (μm)	≤12.0
Coating Non-Circularity (%)	≤6.0
Core/Cladding Concentricity Error (μm)	≤0.6
Curl (radius) (m)	≥4

Optical Characteristics

Attenuation (dB/km)	1550nm	≤0.22
	1625nm	≤0.24
Attenuation vs. Wavelength	1525~1575 nm	≤0.02 dB/km
Max. α difference		
Dispersion coefficient	1530~1565 nm	≥2.0 ≤6.0 ps/(nm/km)
	1565~1625 nm	≥4.5 ≤11.2 ps/(nm/km)
Zero Dispersion Wavelength (nm)		≤1520
Zero Slope at 1550nm (ps/(nm².km))		≤0.084
Typical dispersion slope at 1550nm (ps/(nm².km))		0.075

PMD

Maximum Individual Fibre ps/√km		≤0.2
Link Design Value (M=20, Q=0.01%) ps/√km		≤0.08
Typical value ps/√km		0.04
Cable cutoff wavelength λ _c		≤1450 nm
Mode field diameter (MFD)	1550 nm	9.1~10.1 μm
Effective group index of refraction (N _e ^{ff})	1550 nm	1.469
	1625 nm	1.469
Point discontinuities	1550 nm	≤0.05 dB

Environmental Characteristics (1550 nm & 1625 nm)

Temperature dependence induced attenuation at -60°C to +85°C	≤0.05 (dB/km)
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH	≤0.05 (dB/km)
Water soak dependence induced attenuation at 23°C for 30 days	≤0.05 (dB/km)
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30 days	≤0.05 (dB/km)
Dry heat aging at 85°C	≤0.05 (dB/km)

Mechanical Specification

Proof test (off line)	(N)	≥9.0
	(%)	≥1.0
	(kpsi)	≥100
Macro-bend induced attenuation		
1 turn around a mandrel of 32mm diameter	1550 nm	≤0.05 dB
100 turn around a mandrel of 50mm diameter	1310 & 1550 nm	≤0.05 dB
100 turn around a mandrel of 60mm diameter	1625 nm	≤0.05 dB
Coating strip force (N)	Typical average force	1.5
	Peak force	≥1.3 ≤8.9
Dynamic stress corrosion susceptibility parameter n ^d		≥27

High Capacity Low Slop Dispersion Shifted Singlemode fiber (G.656)

HIPOSH® fibre complies with or exceeds the ITU-T Recommendation G.655 and G.656 Optical fibre specification.

Characteristics & Application

- Suitable for high bit-rate (10 Gb/s and 40 Gb/s) and long distance DWDM transmission system in S+C+L bands
- Supporting 1310nm window transmission on the same fibre
- Lower dispersion compensation costs for metro networks, providing lowest first channel costs
- A relative low dispersion slope applicable for chromatic dispersion and dispersion slope compensation
- Good protection and excellent strip force stability and bending property
- Accurate geometrical parameters that insure low splicing loss and high splicing efficiency
- Low bending induced loss at 1550nm and at the more sensitive 1625nm wavelength

Product Specifications

Geometrical Characteristics

Cladding Diameter (μm)	125.0±1.0
Cladding Non-Circularity (%)	≤1.0
Coating Diameter (μm)	245±7
Coating/Cladding Concentricity Error (μm)	≤12.0
Coating Non-Circularity (%)	≤6.0
Core/Cladding Concentricity Error (μm)	≤0.6
Curl (radius) (m)	≥4

Optical Characteristics

Attenuation (dB/km)	1310nm	≤0.36
	1460nm	≤0.25
	1550nm	≤0.21
	1625nm	≤0.24
Attenuation vs. Wavelength	1525~1575 nm	≤0.02 dB/km
Max. α difference		
Dispersion coefficient	1460 nm	≥2.0 ps/(nm/km)
	1530~1565 nm	≥5.5 ≤10.0 ps/(nm/km)
	1565~1625 nm	≥7.5 ≤13.4 ps/(nm/km)
Zero Dispersion wavelengt (nm)		≤1420
Dispersion Slope at 1550nm (ps/(nm².km))		≤0.06
Typical dispersion slope at 1550nm (ps/(nm².km))		0.052

PMD

Maximum Individual Fibre ps/√km		≤0.2
Link Design Value (M=20, Q=0.01%) ps/√km		≤0.08
Typical value ps/√km		0.04
Cable cutoff wavelength λ _c		≤1260 nm
Mode field diameter (MFD)	1550 nm	8.5~9.5 μm
Effective group index of refraction (N _e ^{eff})	1550nm & 1625nm	1.469
Point discontinuities	1550 nm	≤0.05

Environmental Characteristics (1550 nm & 1625 nm)

Temperature dependence induced attenuation at -60°C to +85°C	≤0.05 (dB/km)
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH	≤0.05 (dB/km)
Water soak dependence induced attenuation at 23°C for 30 days	≤0.05 (dB/km)
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30 days	≤0.05 (dB/km)
Dry heat aging at 85°C	≤0.05 (dB/km)

Mechanical Specification

Proof test (off line)	(N)	≥9.0
	(%)	≥1.0
	(kpsi)	≥100
Macro-bend induced attenuation		
1 turn around a mandrel of 32mm diameter	1550 nm	≤0.05 dB
100 turn around a mandrel of 50mm diameter	1310 & 1550 nm	≤0.05 dB
100 turn around a mandrel of 60mm diameter	1625 nm	≤0.05 dB
Coating strip force (N)	Typical average force	1.5
	Peak force	≥1.3 ≤8.9
Dynamic stress corrosion susceptibility parameter n ^d		≥27

EasyBand® Bending Insensitive Singlemode fiber (G.657.A)

EasyBand® Bending Insensitive singlemode fibre meets or exceeds the ITU-T Recommendation G.652.D & G.657.A including the IEC 60793-2-50 type B1.3 Optical fibre specification.

Characteristics & Application

- Low attenuation satisfying the operation demand in O-E-S-C-L band
- Good bending loss resistance at short radius bends
- Low micro-bending loss for highly demanding cable designs including ribbons
- Low PMD satisfying high bit-rate and long distance transmission requirements
- Accurate geometrical parameters that insure low splicing loss and high splicing efficiency
- Used in high performance optical network operating in O-E-S-C-L band & high speed optical routes in buildings (FTTx)

Product Specifications

Geometrical Characteristics

Cladding Diameter (μm)	125.0±1.0
Cladding Non-Circularity (%)	≤0.7
Coating Diameter (μm)	245±5
Coating/Cladding Concentricity Error (μm)	≤12.0
Coating Non-Circularity (%)	≤6.0
Core/Cladding Concentricity Error (μm)	≤0.5
Curl (radius) (m)	≥4

Optical Characteristics

Attenuation (dB/km)	1310nm	≤0.35
	1383nm (after H ₂ -aging)	≤0.35
	1460nm	≤0.25
	1550nm	≤0.21
	1625nm	≤0.23
Attenuation vs. Wavelength	1285~1330 nm	≤0.03 dB/km
Max. α difference	1525~1575 nm	≤0.02 dB/km
Dispersion coefficient	1285~1340 nm	≥-3.4 ≤3.4 ps/(nm/km)
	1550 nm	≤18 ps/(nm/km)
	1625 nm	≤22 ps/(nm/km)
Zero Dispersion wavelength (nm)		1300~1324
Zero Dispersion Slope (ps/(nm ² .km))		≤0.092
Typical value (ps/(nm ² .km))		0.086

PMD

Maximum Individual Fibre ps/√km		≤0.2
Link Design Value (M=20, Q=0.01%) ps/√km		≤0.1
Typical value ps/√km		0.04
Cable cutoff wavelength λ _c		≤1260 nm
Mode field diameter (MFD)	1310 nm	8.4~9.2 μm
	1550 nm	9.3~10.3 μm
Effective group index of refraction (N _e ^{ff})	1310 nm	1.466
	1550 nm	1.467
Point discontinuities	1310 nm	≤0.05
	1550 nm	≤0.05

Environmental Characteristics (1310 nm, 1550 nm & 1625 nm)

Temperature dependence induced attenuation at -60°C to +85°C	≤0.05 (dB/km)
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH	≤0.05 (dB/km)
Water soak dependence induced attenuation at 23°C for 30 days	≤0.05 (dB/km)
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30 days	≤0.05 (dB/km)
Dry heat aging at 85°C	≤0.05 (dB/km)

Mechanical Specification

Proof test (off line)	(N)	≥9.0
	(%)	≥1.0
	(kpsi)	≥100
Macro-bend induced attenuation		
10 turns around a mandrel of 30mm diameter	1550 nm	≤0.25 dB
10 turns around a mandrel of 30mm diameter	1625 nm	≤1.0 dB
1 turn around a mandrel of 20mm diameter	1550 nm	≤0.75 dB
1 turn around a mandrel of 20mm diameter	1625 nm	≤1.5 dB
Coating strip force (N)	Typical average force	1.7
	Peak force	≥1.3 ≤8.9
Dynamic stress corrosion susceptibility parameter n ^d		≥20

➤ Fiber Optic Patch Cords

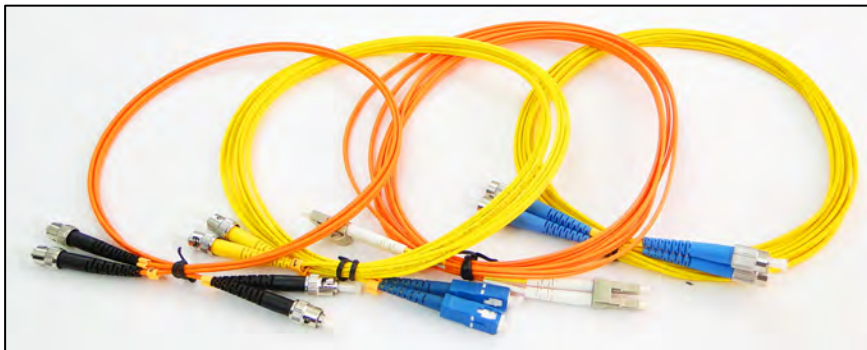
- NetBox fiber optic patch cords & pigtails provide the highest level of connectivity for all your fiber applications.
- Manufactured & tested to the tightest specifications, NetBox patch cords & pigtails exceeds Telcordia GR-326 requirements.
- Our precision zirconia ferrules and environmenttly rugged connectors and cable assemblies ensure lasting, repeatable connections.

Applications:

- Fast Ethernet, Data communication LAN and WAN
- High-speed Enterprise Servers
- Optical access and ATM Networks Equipment
- Multiplexores, Switches and Routers
- Optical Transport and Telecommunications Switching Equipment

Features:

- Excellent Return Loss
- Low Insertion Loss
- Multimode & Singlemode
- Simplex & Duplex assemblies
- Cable sheath: LSZH standard (PVC on request),
- Telcordia GR-326-CORE Compliant
- IEC-61754-20 Compliant
- RoHS
- SC, FC, ST, LC, MT-RJ, MU & E2000 terminations
- PC End-face polish, (UPC & APC on request)
- 2.0mm Outer Jacket diameter (1.6mm & 3.0mm on request)



Performance Specifications:

	Single mode			Multimode		
Connector type	MTRJ	LC, FC, SC, ST, MU	E2000	MTRJ	LC, FC, SC, ST, MU	E2000
Insertion Loss	0.3dB	0.15dB	0.2dB	0.3dB	0.35dB	0.2dB
Return Loss	-35 to -65dB					
Mating durability (500 cycles)	<0.2dB					
Back reflection (typical)	≤55dB			≤20dB		
Tensile strength	>10Kg					
Operating Temperature: - 40 to + 85°C						

Singlemode fiber Characteristics:

Attenuation	1310nm ≤0.4 dB/km
	1550nm ≤0.3 dB/km
Dispersion	1285~1330nm ≤3.5 Ps/nm.km
	1550nm ≤18.0 Ps/nm.km
Zero dispersion wavelength	1300~1324 Nm
Zero dispersion slope	≤0.095 Ps/nm.km
Fiber cutoff wavelength	≤1260 Nm
Mode field diameter	8.6±0.5 um
Mode field concentricity	≤0.8 um
Cladding diameter	125±1.0 um
Cladding non-circularity	≤1.0 %
Coating/cladding concentricity error	≤12.5 um
Coating diameter	245±10 um
Bending dependence Induced attenuation(1550 nm)	1 turn, 32mm diameter ≤0.50 db
	100 turns, 60mm diameter ≤0.50 db
Proof Test (offline)	≥100 kpsi

Multimode fiber Characteristics:

Attenuation	850nm ≤3.0 dB/km
	1300nm ≤1.0 dB/km
Bandwidth	50/125 um
	62.5/125 um
	850 nm ≥200 MHz/km
	850 nm ≥160 MHz/km
	1300 nm ≥200 MHz/km
	1300 nm ≥200 MHz/km
Cladding diameter	125±1.0 um
Cladding non-circularity	≤1.0 %
Coating/cladding concentricity error	≤12.5 um
Coating diameter	245±10 um
Bending dependence Induced attenuation	100 turns, 75mm diameter ≤0.50 db at 850 nm\1300 nm
Proof Test (offline)	≥100 kpsi

➤ ST – ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-001	NB-FOPC-005	NB-FOPC-009
2 M	NB-FOPC-002	NB-FOPC-006	NB-FOPC-010
3 M	NB-FOPC-003	NB-FOPC-007	NB-FOPC-011
5 M	NB-FOPC-004	NB-FOPC-008	NB-FOPC-012
10 M	NB-FOPC-180	NB-FOPC-183	NB-FOPC-186
20 M	NB-FOPC-181	NB-FOPC-184	NB-FOPC-187
30 M	NB-FOPC-182	NB-FOPC-185	NB-FOPC-188
Custom Lengths Available			

➤ ST – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-013	NB-FOPC-017	NB-FOPC-021
2 M	NB-FOPC-014	NB-FOPC-018	NB-FOPC-022
3 M	NB-FOPC-015	NB-FOPC-019	NB-FOPC-023
5 M	NB-FOPC-016	NB-FOPC-020	NB-FOPC-024
10 M	NB-FOPC-171	NB-FOPC-191	NB-FOPC-194
20 M	NB-FOPC-189	NB-FOPC-192	NB-FOPC-195
30 M	NB-FOPC-190	NB-FOPC-193	NB-FOPC-196
Custom Lengths Available			

➤ ST – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-025	NB-FOPC-028	NB-FOPC-031
2 M	NB-FOPC-026	NB-FOPC-029	NB-FOPC-032
3 M	NB-FOPC-027	NB-FOPC-030	NB-FOPC-033
5 M	NB-FOPC-197	NB-FOPC-205	NB-FOPC-201
10 M	NB-FOPC-198	NB-FOPC-206	NB-FOPC-202
20 M	NB-FOPC-199	NB-FOPC-207	NB-FOPC-203
30 M	NB-FOPC-200	NB-FOPC-208	NB-FOPC-204
Custom Lengths Available			

➤ SC – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-034	NB-FOPC-049	NB-FOPC-053
2 M	NB-FOPC-035	NB-FOPC-050	NB-FOPC-054
3 M	NB-FOPC-036	NB-FOPC-051	NB-FOPC-055
5 M	NB-FOPC-037	NB-FOPC-052	NB-FOPC-056
10 M	NB-FOPC-039	NB-FOPC-209	NB-FOPC-058
20 M	NB-FOPC-041	NB-FOPC-210	NB-FOPC-060
30 M	NB-FOPC-042	NB-FOPC-211	NB-FOPC-061
Custom Lengths Available			

➤ SC – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-062	NB-FOPC-065	NB-FOPC-068
2 M	NB-FOPC-063	NB-FOPC-066	NB-FOPC-069
3 M	NB-FOPC-064	NB-FOPC-067	NB-FOPC-070
5 M	NB-FOPC-212	NB-FOPC-216	NB-FOPC-220
10 M	NB-FOPC-213	NB-FOPC-217	NB-FOPC-221
20 M	NB-FOPC-214	NB-FOPC-218	NB-FOPC-222
30 M	NB-FOPC-215	NB-FOPC-219	NB-FOPC-223
Custom Lengths Available			

➤ MTRJ – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-071	NB-FOPC-076	NB-FOPC-079
2 M	NB-FOPC-072	NB-FOPC-077	NB-FOPC-080
3 M	NB-FOPC-073	NB-FOPC-078	NB-FOPC-081
5 M	NB-FOPC-224	NB-FOPC-226	NB-FOPC-230
10 M	NB-FOPC-074	NB-FOPC-227	NB-FOPC-082
20 M	NB-FOPC-075	NB-FOPC-228	NB-FOPC-083
30 M	NB-FOPC-225	NB-FOPC-229	NB-FOPC-231
Custom Lengths Available			

➤ LC – LC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-232	NB-FOPC-234	NB-FOPC-241
2 M	NB-FOPC-233	NB-FOPC-235	NB-FOPC-242
3 M	NB-FOPC-084	NB-FOPC-236	NB-FOPC-090
5 M	NB-FOPC-085	NB-FOPC-237	NB-FOPC-091
10 M	NB-FOPC-086	NB-FOPC-238	NB-FOPC-092
20 M	NB-FOPC-087	NB-FOPC-239	NB-FOPC-093
30 M	NB-FOPC-088	NB-FOPC-240	NB-FOPC-094
Custom Lengths Available			

➤ LC – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-304	NB-FOPC-305	NB-FOPC-312
2 M	NB-FOPC-095	NB-FOPC-306	NB-FOPC-313
3 M	NB-FOPC-096	NB-FOPC-307	NB-FOPC-104
5 M	NB-FOPC-097	NB-FOPC-308	NB-FOPC-105
10 M	NB-FOPC-100	NB-FOPC-309	NB-FOPC-106
20 M	NB-FOPC-101	NB-FOPC-310	NB-FOPC-107
30 M	NB-FOPC-102	NB-FOPC-311	NB-FOPC-108
Custom Lengths Available			

➤ LC – ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-314	NB-FOPC-316	NB-FOPC-322
2 M	NB-FOPC-315	NB-FOPC-114	NB-FOPC-323
3 M	NB-FOPC-109	NB-FOPC-317	NB-FOPC-115
5 M	NB-FOPC-110	NB-FOPC-318	NB-FOPC-116
10 M	NB-FOPC-111	NB-FOPC-319	NB-FOPC-117
20 M	NB-FOPC-112	NB-FOPC-320	NB-FOPC-118
30 M	NB-FOPC-113	NB-FOPC-321	NB-FOPC-119
Custom Lengths Available			

➤ LC – FC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-324	NB-FOPC-325	NB-FOPC-332
2 M	NB-FOPC-120	NB-FOPC-326	NB-FOPC-126
3 M	NB-FOPC-121	NB-FOPC-327	NB-FOPC-127
5 M	NB-FOPC-122	NB-FOPC-328	NB-FOPC-128
10 M	NB-FOPC-123	NB-FOPC-329	NB-FOPC-129
20 M	NB-FOPC-124	NB-FOPC-330	NB-FOPC-130
30 M	NB-FOPC-125	NB-FOPC-331	NB-FOPC-131
Custom Lengths Available			

➤ LC – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-333	NB-FOPC-335	NB-FOPC-342
2 M	NB-FOPC-334	NB-FOPC-336	NB-FOPC-137
3 M	NB-FOPC-132	NB-FOPC-337	NB-FOPC-138
5 M	NB-FOPC-133	NB-FOPC-338	NB-FOPC-139
10 M	NB-FOPC-134	NB-FOPC-339	NB-FOPC-140
20 M	NB-FOPC-135	NB-FOPC-340	NB-FOPC-141
30 M	NB-FOPC-136	NB-FOPC-341	NB-FOPC-142
Custom Lengths Available			

➤ FC - FC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-243	NB-FOPC-245	NB-FOPC-252
2 M	NB-FOPC-244	NB-FOPC-246	NB-FOPC-253
3 M	NB-FOPC-143	NB-FOPC-247	NB-FOPC-151
5 M	NB-FOPC-144	NB-FOPC-248	NB-FOPC-152
10 M	NB-FOPC-147	NB-FOPC-249	NB-FOPC-153
20 M	NB-FOPC-148	NB-FOPC-250	NB-FOPC-154
30 M	NB-FOPC-149	NB-FOPC-251	NB-FOPC-155
Custom Lengths Available			

➤ FC - SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-254	NB-FOPC-256	NB-FOPC-263
2 M	NB-FOPC-255	NB-FOPC-257	NB-FOPC-264
3 M	NB-FOPC-156	NB-FOPC-258	NB-FOPC-163
5 M	NB-FOPC-157	NB-FOPC-259	NB-FOPC-164
10 M	NB-FOPC-160	NB-FOPC-260	NB-FOPC-165
20 M	NB-FOPC-161	NB-FOPC-261	NB-FOPC-166
30 M	NB-FOPC-162	NB-FOPC-262	NB-FOPC-167
Custom Lengths Available			

➤ FC - MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-265	NB-FOPC-271	NB-FOPC-278
2 M	NB-FOPC-170	NB-FOPC-272	NB-FOPC-168
3 M	NB-FOPC-266	NB-FOPC-273	NB-FOPC-169
5 M	NB-FOPC-267	NB-FOPC-274	NB-FOPC-279
10 M	NB-FOPC-268	NB-FOPC-275	NB-FOPC-280
20 M	NB-FOPC-269	NB-FOPC-276	NB-FOPC-281
30 M	NB-FOPC-270	NB-FOPC-277	NB-FOPC-282
Custom Lengths Available			

➤ E2000 – E2000 Simplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-283	NB-FOPC-290	NB-FOPC-297
2 M	NB-FOPC-284	NB-FOPC-291	NB-FOPC-298
3 M	NB-FOPC-285	NB-FOPC-292	NB-FOPC-299
5 M	NB-FOPC-286	NB-FOPC-293	NB-FOPC-300
10 M	NB-FOPC-287	NB-FOPC-294	NB-FOPC-301
20 M	NB-FOPC-288	NB-FOPC-295	NB-FOPC-302
30 M	NB-FOPC-289	NB-FOPC-296	NB-FOPC-303
Custom Lengths Available			

➤ FC - ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-457	NB-FOPC-491	NB-FOPC-461
2 M	NB-FOPC-458	NB-FOPC-492	NB-FOPC-462
3 M	NB-FOPC-459	NB-FOPC-493	NB-FOPC-463
5 M	NB-FOPC-451	NB-FOPC-494	NB-FOPC-464
10 M	NB-FOPC-460	NB-FOPC-495	NB-FOPC-465
20 M	NB-FOPC-424	NB-FOPC-496	NB-FOPC-466
30 M	NB-FOPC-447	NB-FOPC-497	NB-FOPC-467
Custom Lengths Available			

➤ Ruggedized Fiber Optic Patch Cords

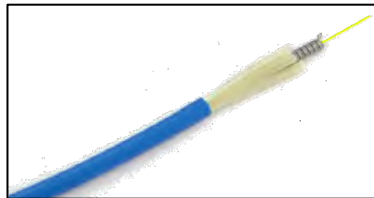
- NetBox fiber optic patch cords & pigtailed provide the highest level of connectivity for all your fiber applications.
- Manufactured & tested to the tightest specifications, NetBox patch cords & pigtailed exceeds Telcordia GR-326 requirements.
- Our precision zirconia ferrules and environmentlly rugged connectors and cable assemblies ensure lasting, repeatable connections.

Applications:

- FTTH
- Subway
- Temperature detector
- Power plant
- TV antenna
- All applications for which traditional patch-cords are used

Features:

- SUS flexible armored tube keeps the fiber protected from damage
- Resisting the destroy caused by harsh environment & improper operation such as pull strength
- pressing, bending, improper twisting and bite of ants or mice
- Secure transmission power to avoid additional attenuation in case of bending, bundling, and heavy load.
- Easy and quick for replacement, can be handled as an electric wire
- Multimode & Singlemode
- Simplex & Duplex assemblies
- Cable sheath: LSZH standard (PVC on request),
- Telcordia GR-326-CORE Compliant
- RoHS
- SC, FC, ST, LC, MT-RJ, MU & E2000 terminations
- PC End-face polish, (UPC & APC on request)
- 3.0mm Outer Jacket diameter



Performance Specifications:

	Single mode			Multimode		
Connector type	MTRJ	LC, FC, SC, ST, MU	E2000	MTRJ	LC, FC, SC, ST, MU	E2000
Insertion Loss	0.3dB	0.15dB	0.2dB	0.3dB	0.35dB	0.2dB
Return Loss	-35 to -65dB					
Mating durability (500 cycles)	<0.2dB					
Back reflection (typical)	≤55dB			≤20dB		
Tensile strength	>20Kg					
Operating Temperature: - 40 to + 85°C						

Singlemode fiber Characteristics:

Attenuation	1310nm ≤0.4 dB/km
	1550nm ≤0.3 dB/km
Dispersion	1285~1330nm ≤3.5 Ps/nm.km
	1550nm ≤18.0 Ps/nm.km
Zero dispersion wavelength	1300~1324 Nm
Zero dispersion slope	≤0.095 Ps/nm.km
Fiber cutoff wavelength	≤1260 Nm
Mode field diameter	8.6±0.5 um
Mode field concentricity	≤0.8 um
Cladding diameter	125±1.0 um
Cladding non-circularity	≤1.0 %
Coating/cladding concentricity error	≤12.5 um
Coating diameter	245±10 um
Bending dependence Induced attenuation(1550 nm)	1 turn, 32mm diameter ≤0.50 db
	100 turns, 60mm diameter ≤0.50 db
Proof Test (offline)	≥100 kpsi

Multi mode fiber Characteristics:

Attenuation	850nm ≤3.0 dB/km
	1300nm ≤1.0 dB/km
Bandwidth	50/125 um
	62.5/125 um
	850 nm ≥200 MHz/km
	1300 nm ≥200 MHz/km
Cladding diameter	125±1.0 um
Cladding non-circularity	≤1.0 %
Coating/cladding concentricity error	≤12.5 um
Coating diameter	245±10 um
Bending dependence Induced attenuation	100 turns, 75mm diameter ≤0.50 db at 850 nm\1300 nm
Proof Test (offline)	≥100 kpsi

➤ ST – ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-001-RGD	NB-FOPC-005-RGD	NB-FO C-009-RGD
2 M	NB-FOPC-002-RGD	NB-FOPC-006-RGD	NB-FOPC-010-RGD
3 M	NB-FOPC-003-RGD	NB-FOPC-007-RGD	NB-FOPC-011-RGD
5 M	NB-FOPC-004-RGD	NB-FOPC-008-RGD	NB-FOPC-012-RGD
10 M	NB-FOPC-180-RGD	NB-FOPC-183-RGD	NB-FOPC-186-RGD
20 M	NB-FOPC-181-RGD	NB-FOPC-184-RGD	NB-FOPC-187-RGD
30 M	NB-FOPC-182-RGD	NB-FOPC-185-RGD	NB-FOPC-188-RGD
Custom Lengths Available			

➤ ST – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-013-RGD	NB-FOPC-017-RGD	NB-FOPC-021-RGD
2 M	NB-FOPC-014-RGD	NB-FOPC-018-RGD	NB-FOPC-022-RGD
3 M	NB-FOPC-015-RGD	NB-FOPC-019-RGD	NB-FOPC-023-RGD
5 M	NB-FOPC-016-RGD	NB-FOPC-020-RGD	NB-FOPC-024-RGD
10 M	NB-FOPC-171-RGD	NB-FOPC-191-RGD	NB-FOPC-194-RGD
20 M	NB-FOPC-189-RGD	NB-FOPC-192-RGD	NB-FOPC-195-RGD
30 M	NB-FOPC-190-RGD	NB-FOPC-193-RGD	NB-FOPC-196-RGD
Custom Lengths Available			

➤ ST – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-025-RGD	NB-FOPC-028-RGD	NB-FOPC-031-RGD
2 M	NB-FOPC-026-RGD	NB-FOPC-029-RGD	NB-FOPC-032-RGD
3 M	NB-FOPC-027-RGD	NB-FOPC-030-RGD	NB-FOPC-033-RGD
5 M	NB-FOPC-197-RGD	NB-FOPC-205-RGD	NB-FOPC-201-RGD
10 M	NB-FOPC-198-RGD	NB-FOPC-206-RGD	NB-FOPC-202-RGD
20 M	NB-FOPC-199-RGD	NB-FOPC-207-RGD	NB-FOPC-203-RGD
30 M	NB-FOPC-200-RGD	NB-FOPC-208-RGD	NB-FOPC-204-RGD
Custom Lengths Available			

➤ SC – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-034-RGD	NB-FOPC-049-RGD	NB-FOPC-053-RGD
2 M	NB-FOPC-035-RGD	NB-FOPC-050-RGD	NB-FOPC-054-RGD
3 M	NB-FOPC-036-RGD	NB-FOPC-051-RGD	NB-FOPC-055-RGD
5 M	NB-FOPC-037-RGD	NB-FOPC-052-RGD	NB-FOPC-056-RGD
10 M	NB-FOPC-039-RGD	NB-FOPC-209-RGD	NB-FOPC-058-RGD
20 M	NB-FOPC-041-RGD	NB-FOPC-210-RGD	NB-FOPC-060-RGD
30 M	NB-FOPC-042-RGD	NB-FOPC-211-RGD	NB-FOPC-061-RGD
Custom Lengths Available			

➤ SC – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-062-RGD	NB-FOPC-065-RGD	NB-FOPC-068-RGD
2 M	NB-FOPC-063-RGD	NB-FOPC-066-RGD	NB-FOPC-069-RGD
3 M	NB-FOPC-064-RGD	NB-FOPC-067-RGD	NB-FOPC-070-RGD
5 M	NB-FOPC-212-RGD	NB-FOPC-216-RGD	NB-FOPC-220-RGD
10 M	NB-FOPC-213-RGD	NB-FOPC-217-RGD	NB-FOPC-221-RGD
20 M	NB-FOPC-214-RGD	NB-FOPC-218-RGD	NB-FOPC-222-RGD
30 M	NB-FOPC-215-RGD	NB-FOPC-219-RGD	NB-FOPC-223-RGD
Custom Lengths Available			

➤ MTRJ – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-071-RGD	NB-FOPC-076-RGD	NB-FOPC-079-RGD
2 M	NB-FOPC-072-RGD	NB-FOPC-077-RGD	NB-FOPC-080-RGD
3 M	NB-FOPC-073-RGD	NB-FOPC-078-RGD	NB-FOPC-081-RGD
5 M	NB-FOPC-224-RGD	NB-FOPC-226-RGD	NB-FOPC-230-RGD
10 M	NB-FOPC-074-RGD	NB-FOPC-227-RGD	NB-FOPC-082-RGD
20 M	NB-FOPC-075-RGD	NB-FOPC-228-RGD	NB-FOPC-083-RGD
30 M	NB-FOPC-225-RGD	NB-FOPC-229-RGD	NB-FOPC-231-RGD
Custom Lengths Available			

➤ LC – LC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-232-RGD	NB-FOPC-234-RGD	NB-FOPC-241-RGD
2 M	NB-FOPC-233-RGD	NB-FOPC-235-RGD	NB-FOPC-242-RGD
3 M	NB-FOPC-084-RGD	NB-FOPC-236-RGD	NB-FOPC-090-RGD
5 M	NB-FOPC-085-RGD	NB-FOPC-237-RGD	NB-FOPC-091-RGD
10 M	NB-FOPC-086-RGD	NB-FOPC-238-RGD	NB-FOPC-092-RGD
20 M	NB-FOPC-087-RGD	NB-FOPC-239-RGD	NB-FOPC-093-RGD
30 M	NB-FOPC-088-RGD	NB-FOPC-240-RGD	NB-FOPC-094-RGD
Custom Lengths Available			

➤ LC – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-304-RGD	NB-FOPC-305-RGD	NB-FOPC-312-RGD
2 M	NB-FOPC-095-RGD	NB-FOPC-306-RGD	NB-FOPC-313-RGD
3 M	NB-FOPC-096-RGD	NB-FOPC-307-RGD	NB-FOPC-104-RGD
5 M	NB-FOPC-097-RGD	NB-FOPC-308-RGD	NB-FOPC-105-RGD
10 M	NB-FOPC-100-RGD	NB-FOPC-309-RGD	NB-FOPC-106-RGD
20 M	NB-FOPC-101-RGD	NB-FOPC-310-RGD	NB-FOPC-107-RGD
30 M	NB-FOPC-102-RGD	NB-FOPC-311-RGD	NB-FOPC-108-RGD
Custom Lengths Available			

➤ LC – ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-314-RGD	NB-FOPC-316-RGD	NB-FOPC-322-RGD
2 M	NB-FOPC-315-RGD	NB-FOPC-114-RGD	NB-FOPC-323-RGD
3 M	NB-FOPC-109-RGD	NB-FOPC-317-RGD	NB-FOPC-115-RGD
5 M	NB-FOPC-110-RGD	NB-FOPC-318-RGD	NB-FOPC-116-RGD
10 M	NB-FOPC-111-RGD	NB-FOPC-319-RGD	NB-FOPC-117-RGD
20 M	NB-FOPC-112-RGD	NB-FOPC-320-RGD	NB-FOPC-118-RGD
30 M	NB-FOPC-113-RGD	NB-FOPC-321-RGD	NB-FOPC-119-RGD
Custom Lengths Available			

➤ LC – FC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-324-RGD	NB-FOPC-325-RGD	NB-FOPC-332-RGD
2 M	NB-FOPC-120-RGD	NB-FOPC-326-RGD	NB-FOPC-126-RGD
3 M	NB-FOPC-121-RGD	NB-FOPC-327-RGD	NB-FOPC-127-RGD
5 M	NB-FOPC-122-RGD	NB-FOPC-328-RGD	NB-FOPC-128-RGD
10 M	NB-FOPC-123-RGD	NB-FOPC-329-RGD	NB-FOPC-129-RGD
20 M	NB-FOPC-124-RGD	NB-FOPC-330-RGD	NB-FOPC-130-RGD
30 M	NB-FOPC-125-RGD	NB-FOPC-331-RGD	NB-FOPC-131-RGD
Custom Lengths Available			

➤ LC – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-333-RGD	NB-FOPC-335-RGD	NB-FOPC-342-RGD
2 M	NB-FOPC-334-RGD	NB-FOPC-336-RGD	NB-FOPC-137-RGD
3 M	NB-FOPC-132-RGD	NB-FOPC-337-RGD	NB-FOPC-138-RGD
5 M	NB-FOPC-133-RGD	NB-FOPC-338-RGD	NB-FOPC-139-RGD
10 M	NB-FOPC-134-RGD	NB-FOPC-339-RGD	NB-FOPC-140-RGD
20 M	NB-FOPC-135-RGD	NB-FOPC-340-RGD	NB-FOPC-141-RGD
30 M	NB-FOPC-136-RGD	NB-FOPC-341-RGD	NB-FOPC-142-RGD
Custom Lengths Available			

➤ FC - FC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-243-RGD	NB-FOPC-245-RGD	NB-FOPC-252-RGD
2 M	NB-FOPC-244-RGD	NB-FOPC-246-RGD	NB-FOPC-253-RGD
3 M	NB-FOPC-143-RGD	NB-FOPC-247-RGD	NB-FOPC-151-RGD
5 M	NB-FOPC-144-RGD	NB-FOPC-248-RGD	NB-FOPC-152-RGD
10 M	NB-FOPC-147-RGD	NB-FOPC-249-RGD	NB-FOPC-153-RGD
20 M	NB-FOPC-148-RGD	NB-FOPC-250-RGD	NB-FOPC-154-RGD
30 M	NB-FOPC-149-RGD	NB-FOPC-251-RGD	NB-FOPC-155-RGD
Custom Lengths Available			

➤ FC - SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-254-RGD	NB-FOPC-256-RGD	NB-FOPC-263-RGD
2 M	NB-FOPC-255-RGD	NB-FOPC-257-RGD	NB-FOPC-264-RGD
3 M	NB-FOPC-156-RGD	NB-FOPC-258-RGD	NB-FOPC-163-RGD
5 M	NB-FOPC-157-RGD	NB-FOPC-259-RGD	NB-FOPC-164-RGD
10 M	NB-FOPC-160-RGD	NB-FOPC-260-RGD	NB-FOPC-165-RGD
20 M	NB-FOPC-161-RGD	NB-FOPC-261-RGD	NB-FOPC-166-RGD
30 M	NB-FOPC-162-RGD	NB-FOPC-262-RGD	NB-FOPC-167-RGD
Custom Lengths Available			

➤ FC - MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-265-RGD	NB-FOPC-271-RGD	NB-FOPC-278-RGD
2 M	NB-FOPC-170-RGD	NB-FOPC-272-RGD	NB-FOPC-168-RGD
3 M	NB-FOPC-266-RGD	NB-FOPC-273-RGD	NB-FOPC-169-RGD
5 M	NB-FOPC-267-RGD	NB-FOPC-274-RGD	NB-FOPC-279-RGD
10 M	NB-FOPC-268-RGD	NB-FOPC-275-RGD	NB-FOPC-280-RGD
20 M	NB-FOPC-269-RGD	NB-FOPC-276-RGD	NB-FOPC-281-RGD
30 M	NB-FOPC-270-RGD	NB-FOPC-277-RGD	NB-FOPC-282-RGD
Custom Lengths Available			

➤ E2000 – E2000 Simplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-283-RGD	NB-FOPC-290-RGD	NB-FOPC-297-RGD
2 M	NB-FOPC-284-RGD	NB-FOPC-291-RGD	NB-FOPC-298-RGD
3 M	NB-FOPC-285-RGD	NB-FOPC-292-RGD	NB-FOPC-299-RGD
5 M	NB-FOPC-286-RGD	NB-FOPC-293-RGD	NB-FOPC-300-RGD
10 M	NB-FOPC-287-RGD	NB-FOPC-294-RGD	NB-FOPC-301-RGD
20 M	NB-FOPC-288-RGD	NB-FOPC-295-RGD	NB-FOPC-302-RGD
30 M	NB-FOPC-289-RGD	NB-FOPC-296-RGD	NB-FOPC-303-RGD
Custom Lengths Available			

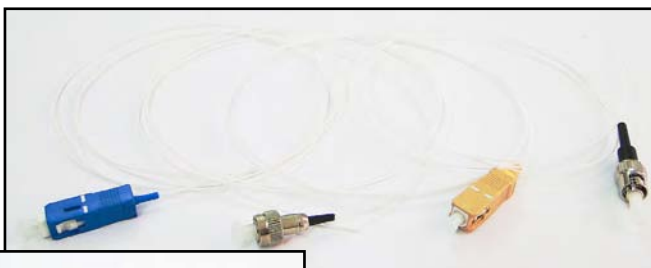
➤ FC - ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-457-RGD	NB-FOPC-491-RGD	NB-FOPC-461-RGD
2 M	NB-FOPC-458-RGD	NB-FOPC-492-RGD	NB-FOPC-462-RGD
3 M	NB-FOPC-459-RGD	NB-FOPC-493-RGD	NB-FOPC-463-RGD
5 M	NB-FOPC-451-RGD	NB-FOPC-494-RGD	NB-FOPC-464-RGD
10 M	NB-FOPC-460-RGD	NB-FOPC-495-RGD	NB-FOPC-465-RGD
20 M	NB-FOPC-424-RGD	NB-FOPC-496-RGD	NB-FOPC-466-RGD
30 M	NB-FOPC-447-RGD	NB-FOPC-497-RGD	NB-FOPC-467-RGD
Custom Lengths Available			

➤ Fiber Optic Pigtails

Features:

- Excellent Return Loss
- Ultra Low Insertion Loss
- Multimode & Singlemode
- Jacket: LSZH standard
- Telcordia GR-326-CORE Compliant
- IEC-61754-20 Compliant
- RoHS
- SC, FC, ST, LC, MT-RJ, MU & E2000
- PC, UPC & APC
- Outer Jacket Available in 0.9mm, 1.6mm, 2mm & 3mm



Performance Specifications:

	Single mode			Multimode		
Connector type	MTRJ	LC, FC, SC, ST, MU	E2000	MTRJ	LC, FC, SC, ST, MU	E2000
Insertion Loss	0.3dB	0.15dB	0.2dB	0.3dB	0.35dB	0.2dB
Return Loss	-35 to -65dB					
Mating durability (500 cycles)	<0.2dB					
Back reflection (typical)	≤55dB			≤20dB		
Operating Temperature: - 40 to + 85°C						

Singlemode 9/125 Pigtails

Part No.	Description
NB-FOPG-007	SC/PC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-022	SC/APC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-010	SC/PC Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-001	ST/PC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-004	ST/PC Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-025	LC/PC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-032	LC/APC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-013	LC/PC Simplex with 2.0mm jacket, LSZH, 3 Meter
NB-FOPG-028	FC/PC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-029	FC/APC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-030	E2000/PC Simplex with 3.0mm jacket, LSZH, 1 Meter
NB-FOPG-031	E2000/APC Simplex with 3.0mm jacket, LSZH, 1 Meter

MultiMode 62.5/125 Pigtails

Part No.	Description
NB-FOPG-009	SC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-012	SC Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-003	ST Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-006	ST Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-023	LC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-014	LC Simplex with 2.0mm jacket, LSZH, 3 Meter
NB-FOPG-026	FC Simplex 0.9mm, LSZH, 1 Meter

MultiMode 50/125 Pigtails

Part No.	Description
NB-FOPG-008	SC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-011	SC Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-002	ST Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-005	ST Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-024	LC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-027	FC Simplex 0.9mm, LSZH, 1 Meter

➤ 10G (OM3) Multi Mode 50/125 Patch cords & Pigtails

Applications:

- Used in multi-gigabit Ethernet environments to patch and connect cabling systems

Features:

- Provide 10-Gig performance (at 850 nm), up to 300 meters
- Backwards compatible to lower speed applications
- Compatible with 10Mb/100Mb/1Gb/10Gb transceivers
- Compliant with TIA/EIA-568-B.3
- Core: 50 μ m, Cladding: 125 μ m, Buffer: 900 μ m
- Jacket: 2.0mm, LSZH, Aqua fiber optic cable
- Max Attenuation: 2.5 dB/km @ 850 nm, 0.7 dB/km @ 1300 nm
- Bandwidth: 1500/500 MHz/km @ 850/1310 nm
- Effective Bandwidth: 2000 MHz/km @ 850 nm
- Operating Temperature: - 40 to + 85°C



➤ 10-Gigabit LC-SC Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-343	NB-FOPC-344	NB-FOPC-345	NB-FOPC-346	NB-FOPC-347	NB-FOPC-348	NB-FOPC-349

➤ 10-Gigabit SC-SC Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-350	NB-FOPC-351	NB-FOPC-352	NB-FOPC-353	NB-FOPC-354	NB-FOPC-355	NB-FOPC-356

➤ 10-Gigabit LC-LC Duplex , Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-357	NB-FOPC-358	NB-FOPC-359	NB-FOPC-360	NB-FOPC-361	NB-FOPC-362	NB-FOPC-363

➤ 10-Gigabit LC-ST Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-364	NB-FOPC-365	NB-FOPC-366	NB-FOPC-367	NB-FOPC-368	NB-FOPC-369	NB-FOPC-370

➤ 10-Gigabit ST-ST Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-371	NB-FOPC-372	NB-FOPC-373	NB-FOPC-374	NB-FOPC-375	NB-FOPC-376	NB-FOPC-377

➤ 10-Gigabit SC-ST Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-378	NB-FOPC-379	NB-FOPC-380	NB-FOPC-381	NB-FOPC-382	NB-FOPC-383	NB-FOPC-384

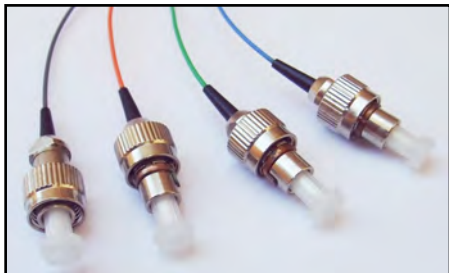
➤ 10-Gigabit Pigtails, Multi Mode, 50-Micron, (0.9mm, LSZH, Aqua color, 1 Mtr)

ST	SC	LC	FC
NB-FOPG-034	NB-FOPG-035	NB-FOPG-036	NB-FOPG-037

➤ Multi-Fiber Distribution & Breakout-Style Cables

Choose Multi-Fiber cables for your network and multi-connection needs

Netbox multi-fiber distribution cable assemblies combine the bandwidth capacity of several individual cable assemblies into a single convenient, easy to use and install assembly. Multi-fiber distribution cable assemblies are traditionally used in backbone, premise distribution, and interconnect applications which require multiple fibers to be routed together from point-to-point. Netbox multi-fiber distribution cables are designed to offer a high degree of flexibility through available features and options, allowing each cable to be manufactured to fit the exact application. Multi-fiber distribution cables are available in single mode, multimode, and laser optimized fiber types, multiple jacket/construction types for different applications, fiber count from 4-48 fibers, SC, LC, ST, FC, and MU connector types, and breakout style/length. Comes with cable braid and pulling eye.



Distribution-Style



Breakout-Style



Cable Braid with Pulling Eye

Performance Specification:

FC, ST, SC, LC, MU	SM	MM
Insertion Loss	<0.3dB	<0.3dB
Return loss	>50dB	>35dB
Mating durability (500 Cycles)	<0.2dB	<0.2dB
Temperature Range(°C)	-40 ~ +85	

Ordering Information:

	A	B	C	D	E	F	G	H	J	K
NB-MF-										

A- Fiber count	B- Fiber Type	C- Cable Length (Mtr)	D- Sheath type	E- Fan-out Length	F- Sub-Unit Style	G- Connector 1	H- End Polish 1	J- Connector 2	K- End Polish 2
XX	X	XXXX	X	XX	X	XX	X	XX	X
04	A= SM 9/125	Example: 0050= 50 Meters	V= PVC	05=0.5 meter	1= 0.9mm	SC	1= MM PC	SC	1= MM PC
06	B= MM 50/125		Z= LSZH	10=1.0 meter	2= 1.6mm	ST	2= SM PC	ST	2= SM PC
08	C= MM 62.5/125		E= PE	12=1.2 meter	3= 2.0mm	FC	3= SM APC	FC	3= SM APC
12	D= MM 50/125 (10 Gig)			15=1.5 meter	4= 3.0mm	LC		LC	
24	F= SM 9/125 (10 Gig)			18=1.8 meter	5= Custom	MU		MU	
48	E= Custom			20=2.0 meter		00= Custom		00= Custom	
				00=Custom					

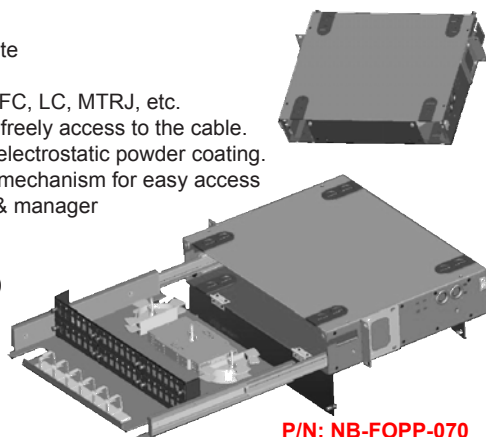
Part Number Example:

NB-MF-06A0050V101SC2SC2

This represents: Multifiber cable, 6 Single mode 9/125 fiber, 50 Mtrs length, PVC jacket, 1 meter length 0.9mm fan-out, SC/PC to SC/PC

➤ 2U Rackmount Fiber Optic Cabinets (Unloaded):

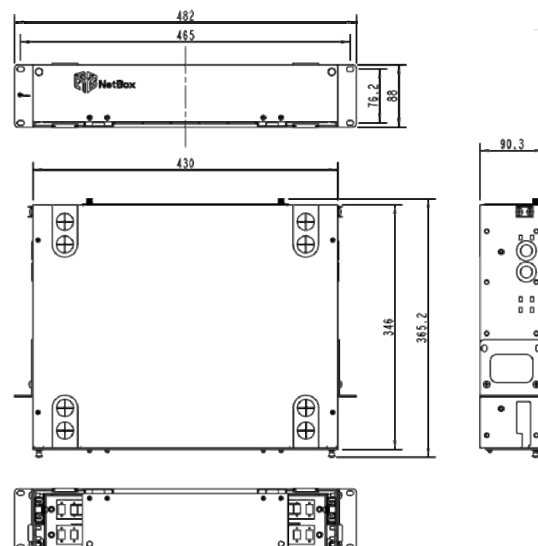
- Simple SNAP in connector plate
- Material: Aluminum (2.0mm)
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Front and back side can have freely access to the cable.
- Cabinet surface covered with electrostatic powder coating.
- Inner tray with smooth sliding mechanism for easy access
- Supplied with splice cassette & manager
- Smoked plastic front cover
- Fit in 19" & 23" racks
- 2U (Accepts 6 Adapter Plates)
- Color : Black
- Variety of adaptors available



P/N: NB-FOPP-070

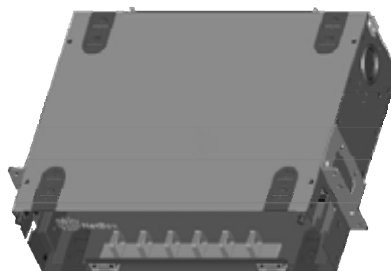
Usage Environment:

- Operating temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Storage temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Humidity $\leq 85\% (+30^{\circ}\text{C})$



➤ 3U Rackmount Fiber Optic Cabinets (Unloaded):

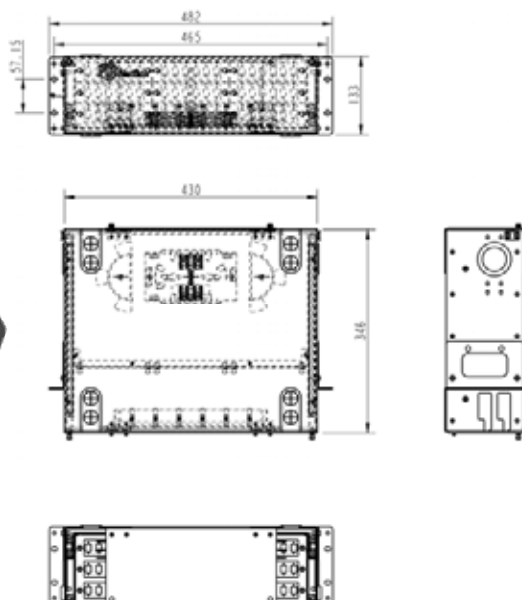
- Simple SNAP in connector plate
- Material: Aluminum (2.0mm)
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Front and back side can have freely access to the cable.
- Cabinet surface covered with electrostatic powder coating.
- Inner tray with smooth sliding mechanism for easy access
- Supplied with splice cassette & manager
- Smoked plastic front cover
- Fit in 19" & 23" racks
- 3U (Accepts 9 Adapter Plates)
- Color : Black
- Variety of adaptors available



P/N: NB-FOPP-071

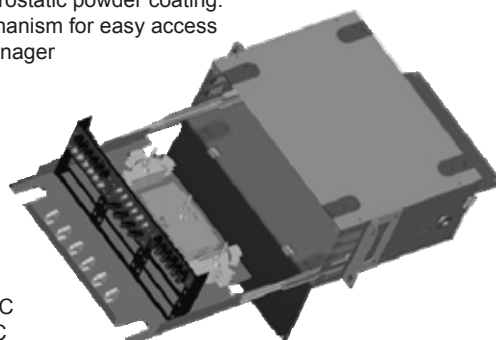
Usage Environment:

- Operating temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Storage temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Humidity $\leq 85\% (+30^{\circ}\text{C})$



➤ 4U Rackmount Fiber Optic Cabinets (Unloaded):

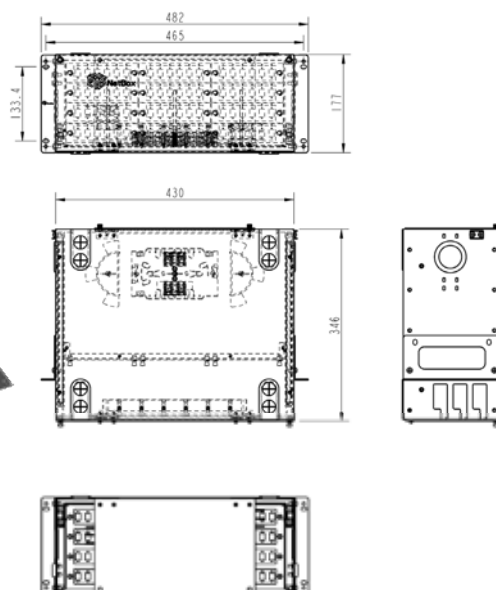
- Simple SNAP in connector plate
- Material: Aluminum (2.0mm)
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Front and back side can have freely access to the cable.
- Cabinet surface covered with electrostatic powder coating.
- Inner tray with smooth sliding mechanism for easy access
- Supplied with splice cassette & manager
- Smoked plastic front cover
- Fit in 19" & 23" racks
- 4U (Accepts 12 Adapter Plates)
- Color : Black
- Variety of adaptors available



P/N: NB-FOPP-072

Usage Environment:

- Operating temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Storage temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Humidity $\leq 85\% (+30^{\circ}\text{C})$



➤ Lock-Style 1 Hole Wallmount Fiber Optic Cabinets (Unloaded):

- Simple SNAP in connector plate
- Lockable (key) Hinged door
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Supplied with splice holders & cable Hanger
- Top/Bottom Cable entry points
- Material : Aluminum (1.5mm)
- 6 to 12-port (Accepts 1 Adapter Panels)
- Dimensions: (170mmW*150mmH*45mmD)
- Color : Black

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

P/N: NB-FOPP-074



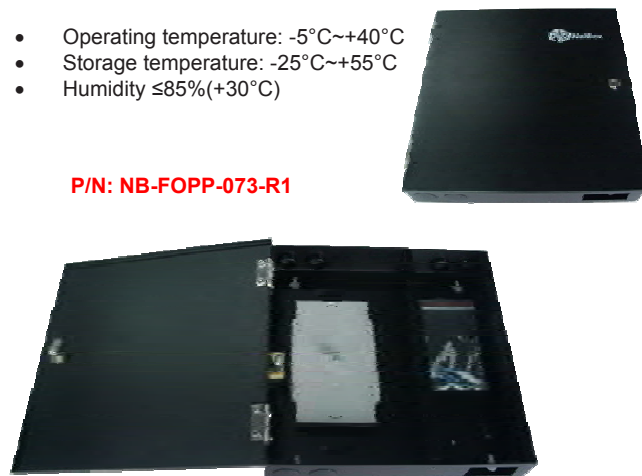
➤ Lock-Style 2 Hole Wallmount Fiber Optic Cabinets (Unloaded):

- Simple SNAP in connector plate
- Lockable (key) Hinged door
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Supplied with splice cassette & cable Hanger
- Top/Bottom Cable entry points
- Material : Aluminum (1.5mm)
- 12 to 24-port (Accepts 2 Adapter Panels)
- Dimensions: (265mmW*275mmH*45mmD)
- Color : Black

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

P/N: NB-FOPP-073-R1



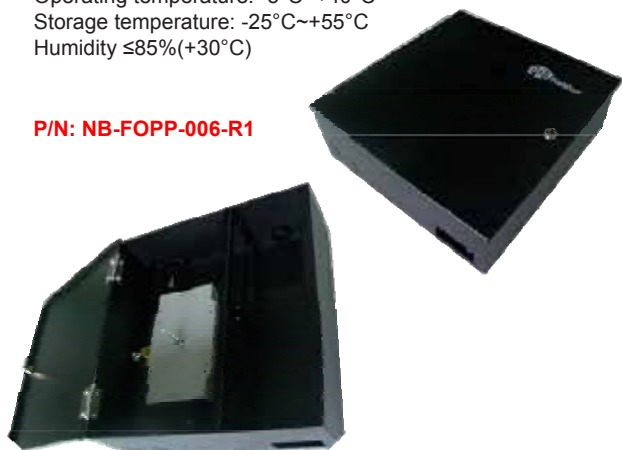
➤ Lock-Style 4 Hole Wallmount Fiber Optic Cabinets (Unloaded):

- Simple SNAP in connector plate
- Lockable (key) Hinged door
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Supplied with splice cassette & cable Hanger
- Top/Bottom Cable entry points
- Material : Aluminum (1.5mm)
- 24 to 48-port (Accepts 4 Adapter Panels)
- Dimensions: (265mmW*275mmH*90mmD)
- Color : Black

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

P/N: NB-FOPP-006-R1



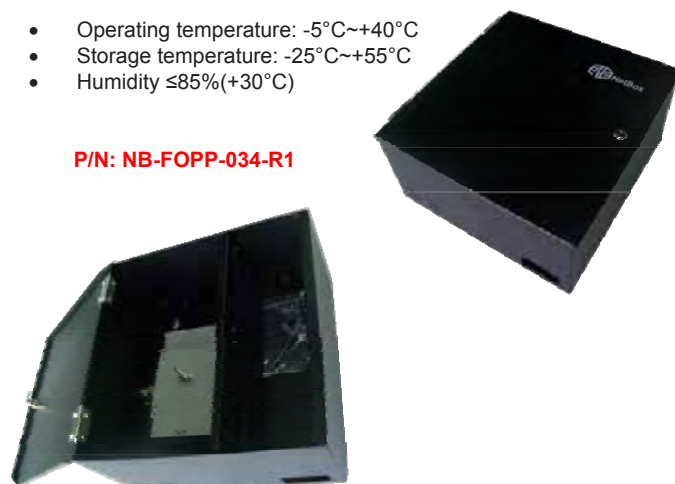
➤ Lock-Style 6 Hole Wallmount Fiber Optic Cabinets (Unloaded):

- Simple SNAP in connector plate
- Lockable (key) Hinged door
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Supplied with splice cassette & cable Hanger
- Top/Bottom Cable entry points
- Material : Aluminum (1.5mm)
- 36 to 72-port (Accepts 6 Adapter Panels)
- Dimensions: (265mmW*275mmH*135mmD)
- Color : Black

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

P/N: NB-FOPP-034-R1



➤ 1U, 19" Rack Mount Fiber Optic Shelf (Unloaded):

- Simple SNAP in connector plate
- Sliding drawer
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Supplied with cable management & splice cassette
- Color : Black
- Material : Aluminum (1.5mm)
- 1U (Accepts 3 Adapter Plates)
- Dimensions: (425mmW*298mmD*45mmH)



P/N: NB-FOPP-001

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

➤ 2U, 19" Rack Mount Fiber Optic Shelf (Unloaded):

- Simple SNAP in connector plate
- Sliding drawer
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Supplied with cable management & splice cassette
- Color : Black
- Material : Aluminum (1.5mm)
- 2U (Accepts 6 Adapter Plates)
- Dimensions: (425mmW* 298mmD*90mmH)



P/N: NB-FOPP-008

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

➤ Lock-Style 4-Hole Wallmount Fiber Optic Cabinets (Unloaded):

- Simple SNAP in connector plate
- Lockable (key) Hinged door
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Supplied with splice cassette & 4 pcs of cable Hanger
- Cable entry point
- Color : Black
- Material : Aluminum (1.5mm)
- 32 to 48-port (Accepts 4 Adapter Panels)



P/N: NB-FOPP-006

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

➤ Lock-Style 6-Hole Wallmount Fiber Optic Cabinets (Unloaded):

- Simple SNAP in connector plate
- Lockable (key) Hinged door
- Flexible system for ST or SC, FC, LC, MTRJ, etc.
- Supplied with splice cassette & 4 pcs of cable Hanger
- Cable entry point
- Color : Black
- Material : Aluminum (1.5mm)
- 48 to 72-port (Accepts 6 Adapter Panels)

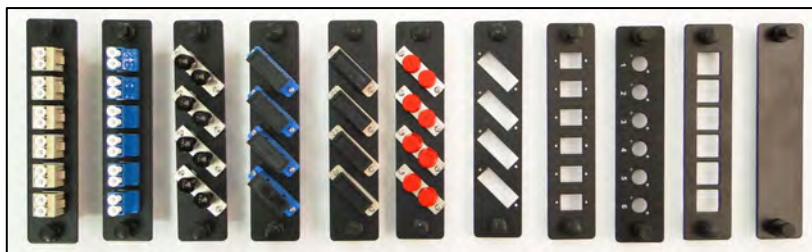


P/N: NB-FOPP-034

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

➤ Adapter Plates:



Ordering Information:

P/N	Description	P/N	Description
NB-FOAD-037	Adapter Plate, LC-LC, 6 Port Duplex, MM, Black	NB-FOAD-066	Adapter Plate, ST-ST Metal, 6 Port Duplex, SM, Black
NB-FOAD-038	Adapter Plate, LC-LC, 6 Port Duplex, SM, Black	NB-FOAD-067	Adapter Plate, ST-ST Metal, 6 Port Duplex, MM, Black
NB-FOAD-023	Adapter Plate, SC-SC, 4 Port Duplex, SM, Black	NB-FOAD-035	Adapter Plate, SC-SC, 6 Port Simplex, SM, Black
NB-FOAD-039	Adapter Plate, SC-SC, 4 Port Duplex, MM, Black	NB-FOAD-062	Adapter Plate, SC-SC, 6 Port Simplex, MM, Black
NB-FOAD-036	Adapter Plate, SC-SC, 6 Port Duplex, SM, Black	NB-FOAD-034	Adapter Plate, ST-ST, 6 Port Simplex, SM, Black
NB-FOAD-061	Adapter Plate, SC-SC, 6 Port Duplex, MM, Black	NB-FOAD-063	Adapter Plate, ST-ST, 6 Port Simplex, MM, Black
NB-FOAD-050	Adapter Plate, FC-FC Metal, 4 Port Duplex, SM, Black	NB-FOAD-030	Adapter Plate, Un- Loaded, 6-ST Simplex Adapter, Black
NB-FOAD-051	Adapter Plate, FC-FC Metal, 4 Port Duplex, MM, Black	NB-FOAD-031	Adapter Plate, Un- Loaded, 6-FC Simplex Adapter, Black
NB-FOAD-064	Adapter Plate, FC-FC Metal, 6 Port Duplex, SM, Black	NB-FOAD-032	Adapter Plate, Un- Loaded, 6-SC Simplex Adapter, Black
NB-FOAD-065	Adapter Plate, FC-FC Metal, 6 Port Duplex, MM, Black	NB-FOAD-054	Adapter Plate, Un- Loaded, 4-SC/ST/FC Duplex Adapter, Black
NB-FOAD-052	Adapter Plate, ST-ST Metal, 4 Port Duplex, SM, Black	NB-FOAD-060	Adapter Plate, Un- Loaded, 6-SC/ST/FC Duplex Adapter, Black
NB-FOAD-053	Adapter Plate, ST-ST Metal, 4 Port Duplex, MM, Black	NB-FOAD-055	Adapter Plate, Un- Loaded, 6-LC Duplex Adapter, Black
		NB-FOAD-027	Blank Plate, Black

➤ Rack Mount Fiber Panel, 1U, 24 Simplex ST ports:

- Sliding drawer
- Supplied with cable management & splice cassette
- Color : Black standard
- Material : Aluminum (1.5mm)
- Dimensions: (425mmW*298mmD*46mmH)

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

Atmosphere pressure: 70Kpa~106Kpa.



NB-FOPP-061

NB-FOPP-065

Ordering Information:

P/N	Description
NB-FOPP-061	Rackmount Fiber Patch Panel, Empty 24 Simplex ST ports, 1U, Black
NB-FOPP-064	Rackmount Fiber Patch Panel, 24-port, Preloaded with 24 Simplex ST Single mode Adapters, 1U, Black
NB-FOPP-065	Rackmount Fiber Patch Panel, 24-port, Preloaded with 24 Simplex ST Multimode Adapters, 1U, Black

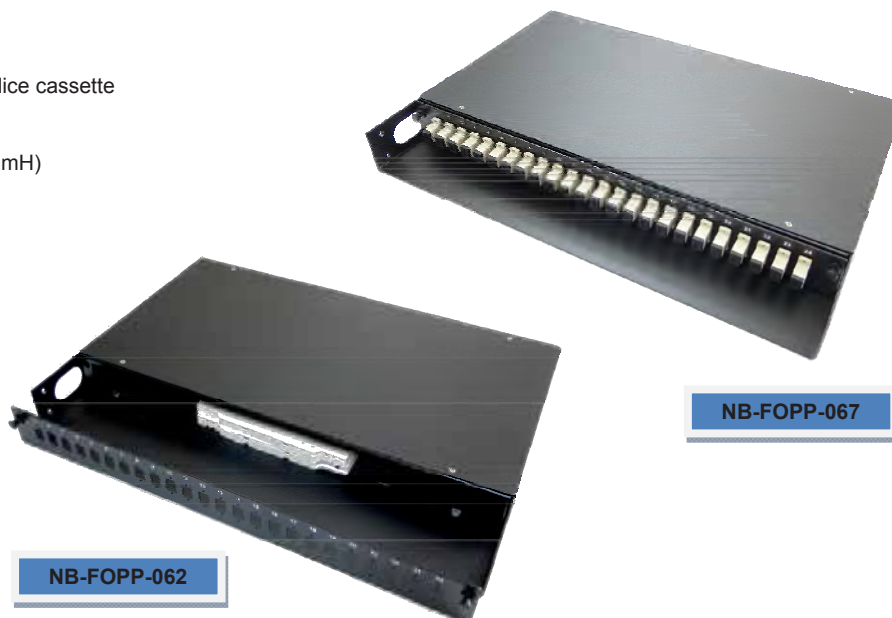
➤ Rack Mount Fiber Panel, 1U, 24 Simplex SC ports:

- Sliding drawer
- Supplied with cable management & splice cassette
- Color : Black standard
- Material : Aluminum (1.5mm)
- Dimensions: (425mmW*298mmD*46mmH)

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)

Atmosphere pressure: 70Kpa~106Kpa.



NB-FOPP-062

NB-FOPP-067

Ordering Information:

P/N	Description
NB-FOPP-062	Rackmount Fiber Patch Panel, Empty 24 Simplex SC ports, 1U, Black
NB-FOPP-066	Rackmount Fiber Patch Panel, 24-port, Preloaded with 24 Simplex SC Single mode Adapters, 1U, Black
NB-FOPP-067	Rackmount Fiber Patch Panel, 24-port, Preloaded with 24 Simplex SC Multimode Adapters, 1U, Black

➤ Rack Mount Fiber Panel, 1U, 24 Duplex ports (48 core):

- Sliding drawer
- Supplied with cable management & splice cassette
- Color : Black standard
- Material : Aluminum (1.5mm)
- SC, ST & FC
- Dimensions: (425mmW*298mmD*46mmH)

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)
- Atmosphere pressure: 70Kpa~106Kpa.



NB-FOPP-063



NB-FOPP-007

Ordering Information:

P/N	Description
NB-FOPP-063	24-Port Duplex (48 core) Fiber patch panel, Rack Mount, Empty , 1U, Black
NB-FOPP-007	24-Port Duplex (48 core) SC Fiber patch panel, SM, Rack Mount, Loaded , 1U, Black
NB-FOPP-035	24-Port Duplex (48 core) SC Fiber patch panel, MM, Rack Mount, Loaded , 1U, Black
NB-FOPP-040	24-Port Duplex (48 core) ST Fiber patch panel, SM, Rack Mount, Loaded , 1U, Black
NB-FOPP-042	24-Port Duplex (48 core) ST Fiber patch panel, MM, Rack Mount, Loaded , 1U, Black
NB-FOPP-041	24-Port Duplex (48 core) FC Fiber patch panel, SM, Rack Mount, Loaded , 1U, Black
NB-FOPP-043	24-Port Duplex (48 core) FC Fiber patch panel, MM, Rack Mount, Loaded , 1U, Black

➤ Rack Mount Fiber Panel, 2U, 48 Duplex ports (96 core):

- Sliding drawer
- Supplied with cable management & splice cassette
- Color : Black standard
- Material : Aluminum (1.5mm)
- SC, ST & FC
- Dimensions: (425mmW* 298mmD*90mmH)

Usage Environment:

- Operating temperature: -5°C~+40°C
- Storage temperature: -25°C~+55°C
- Humidity ≤85%(+30°C)
- Atmosphere pressure: 70Kpa~106Kpa.



NB-FOPP-068



NB-FOPP-009

Ordering Information:

P/N	Description
NB-FOPP-068	48-Port Duplex (96 core) Fiber patch panel, Rack Mount, Empty , 2U, Black
NB-FOPP-009	48-Port Duplex (96 core) SC Fiber patch panel, SM, Rack Mount, Loaded , 2U, Black
NB-FOPP-036	48-Port Duplex (96 core) SC Fiber patch panel, MM, Rack Mount, Loaded , 2U, Black
NB-FOPP-048	48-Port Duplex (96 core) ST Fiber patch panel, SM, Rack Mount, Loaded , 2U, Black
NB-FOPP-050	48-Port Duplex (96 core) ST Fiber patch panel, MM, Rack Mount, Loaded , 2U, Black
NB-FOPP-049	48-Port Duplex (96 core) FC Fiber patch panel, SM, Rack Mount, Loaded , 2U, Black
NB-FOPP-051	48-Port Duplex (96 core) FC Fiber patch panel, MM, Rack Mount, Loaded , 2U, Black

➤ Fiber Optic ODF & Organizer

Features:

- Material: SPCC, Thickness: 1.2mm
- Cabinet surface covered with electrostatic powder coating, the power thickness is 0.1mm
- Bend radius optical fiber $\geq 40\text{mm}$

Application

- Telecommunication networks
- CATV networks
- Fiber to the home
- Co-Location/Customer Premise
- LAN/WAN

Usage Environment

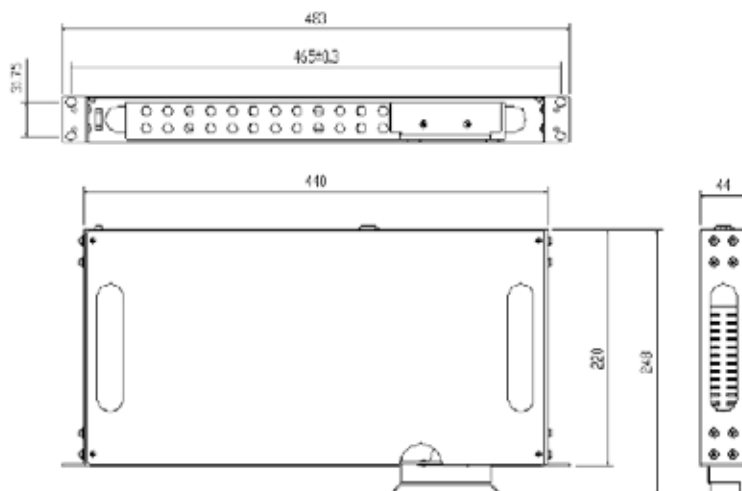
- Operating temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Storage temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Humidity: $\leq 85\%$ ($+30^{\circ}\text{C}$)
- Atmosphere Pressure: $70\text{Kpa} \sim 106\text{Kpa}$

Photo-electricity Specifications

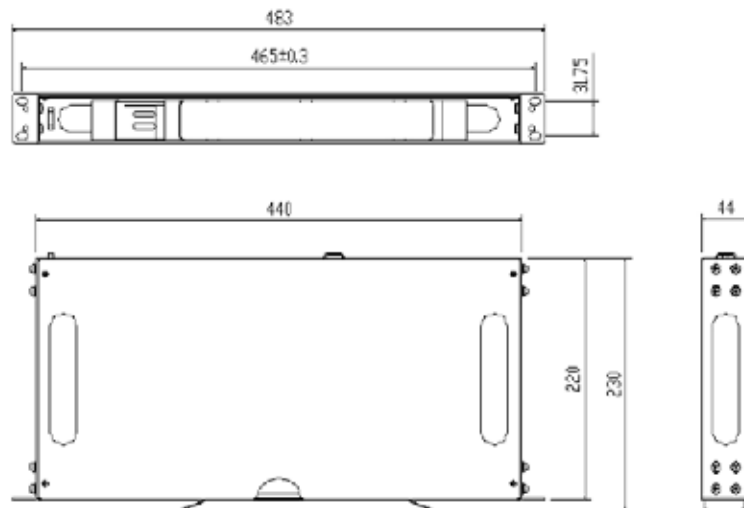
- Insertion Loss $\leq 0.5\text{ dB}$
- Return Loss: $\text{PC} \geq 40\text{ dB}$, $\text{UPC} \geq 50\text{ dB}$, $\text{APC} \geq 60\text{ dB}$
- Durability > 1000 times
- Insulating Resistance $\geq 1000\text{M}\Omega/500\text{V}$
- Compressive Resistance $> 3000\text{V (DC)}$ 1min without breakdown and flashover

Exterior Structure

- ODF (Loaded with 24 FC/SM Adapters), Size (483*248*44mm), P/N: NB-FOPP-059



- Organizer, Size (483*230*44mm), P/N: NB-FOPP-060



➤ Fiber Optic Connectors

STANDARDS

All components of/and the final product are designed and tested to conform the requirements of IEC 60874-7, CECC 86115-801, Bellcore/Telcordia GR-326, EIA/TIA 604-3A, EIA/TIA 568, ISO/IEC 11801 2nd Ed., EN 50173, JIS C5973 F04, ICEA-596, IEC60793-2-10 A1a, ITU-T G.651 or IEC60793-2-10 A1b or ITU-T G.652 (depending on fiber), Belcore/Telcordia GR-409-CORE, IEC 793, IEC 794-1-E1, IEC 794-1-E3, UL1666/901 (UL-cable) and EIA/TIA455.



SC, MM



SC/PC, SM



MTRJ



SC/APC



ST



LC, MM



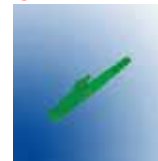
LC/PC, SM



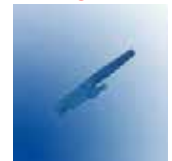
FC



FC/APC



E2000/APC



E2000/PC

Ordering Information:

Epoxy Type				Field Assembling Connector	
P/N	Connector	P/N	Connector	P/N	Description
NB-FOCO-003	SC/PC Multi mode	NB-FOCO-016	FC/APC Single mode	NB-FOCO-020	SC Fiber Field Assembling connector, 3mm, Multi Mode
NB-FOCO-004	SC/PC Single mode	NB-FOCO-011	LC/PC Multi mode	NB-FOCO-021	SC Fiber Field Assembling connector, 0.9mm, Multi Mode
NB-FOCO-015	SC/APC Single mode	NB-FOCO-012	LC/PC Single mode	NB-FOCO-022	SC Fiber Field Assembling connector, 3mm, Single Mode
NB-FOCO-007	ST/PC Multi mode	NB-FOCO-013	MTRJ Multi mode	NB-FOCO-023	SC Fiber Field Assembling connector, 0.9mm, Single Mode
NB-FOCO-008	ST/PC Single mode	NB-FOCO-014	MTRJ Single mode		
NB-FOCO-009	FC/PC Multi mode	NB-FOCO-018	E2000/PC Single mode		
NB-FOCO-010	FC/PC Single mode	NB-FOCO-019	E2000/APC Single mode		

➤ Fiber Optic In-Line Attenuators

Application:

- Telecommunication Networks
- Data Networks
- Video & CATV

Features:

- Bellcore Compliant
- Durability (well over 100mw)
- Wavelength Independent (DWDM)
- Simple and reliable Structure



Specifications:

Operating Wavelength	SM: 1310/1550nm
Return Loss	UPC: < 55dB APC: < 65dB
Attenuation Accuracy	±0.5 (1-10dB) ±1.0 (11-30dB)
Polarization Dependent Loss	<0.2dB
Maximum Optical Input Power	200mW
Operating Temperature Range	-40 ~ +80 °C

Ordering Information:

NB-FOAT-					
Connector	Application			Attenuation dB	
XX	X			XX	
SC	U= UPC			01	
FC	A= APC			02	
ST				05	
LC				10	
MU				15	
				20	
				25	

P/N Example: NB-FOAT-SCA05 This represents: SC/APC 5dB Attenuator

➤ Fiber Optic Adapters

Product Description:

- Mating sleeve fiber optic adapters allows users to couple from one connector type to another same type.
- These adapters are comprised of a polymer / metal outer body and their inner assembly fitted with a precision alignment mechanism.
- These adapters are precisely made and manufactured to demanded specification.
- The combination of a ceramic / phosphor bronze alignment sleeves and precision molded polymer housing provides consistent long-term mechanical and optical performance.
- Complies with JIS various connectors

Application:

- Fiber optic transmission system
- CATV network
- LAN
- Testing/Measurement Instruments
- Fiber distribution frame, fiber optic wall mount and rack mount cabinets.

Compliance:

- Excellent changeability and directivity
- 100% optic test (insertion loss)
- Ceramic and phosphor bronze sleeve tube optional
- Accurate external size
- Complies with JIS various connectors



Specification

Polish Type	PC	APC
Insertion Loss (dB)	≤0.20	≤0.20
Mating Durability (500 Cycles) (dB)	≤0.20	
Temperatures Stability (dB)	≤0.30	
Operating Temperature (°C)	-40 ~ +80	
Storage Temperature (°C)	-40 ~ +85	
Withdrawal Force (g/f)	200 -- 600	

Ordering Information:

P/N	Description	P/N	Description
NB-FOAD-009	ST-S Adapter, Simplex, Metal, MM	NB-FOAD-016	SC-SC Adapter, Duplex, Plastic, MM
NB-FOAD-010	ST-ST Adapter, Simplex, Metal, SM	NB-FOAD-017	SC-SC Adapter, Duplex, Plastic, SM/PC
NB-FOAD-040	ST-ST Adapter, Duplex, Metal, MM	NB-FOAD-047	SC-SC Adapter, Duplex, Plastic, SM/APC
NB-FOAD-033	ST-ST Adapter, Duplex, Metal, SM	NB-FOAD-028	LC-LC Adapter, Duplex, Plastic, MM
NB-FOAD-011	ST-ST Adapter, Duplex, Plastic, MM	NB-FOAD-042	LC-LC Adapter, Duplex, Plastic, SM/PC
NB-FOAD-012	FC-FC Adapter, Simplex, Metal, MM	NB-FOAD-048	LC-LC Adapter, Duplex, Plastic, SM/APC
NB-FOAD-013	FC-FC Adapter, Simplex, Metal, SM/PC	NB-FOAD-058	LC-LC Adapter, Duplex, SC footprint, Plastic, MM
NB-FOAD-044	FC-FC Adapter, Simplex, Metal, SM/APC	NB-FOAD-059	LC-LC Adapter, Duplex, SC footprint, Plastic, SM
NB-FOAD-029	FC-FC Adapter, Duplex, Metal, MM	NB-FOAD-018	SC-ST Adapter, Simplex, Plastic, MM
NB-FOAD-041	FC-FC Adapter, Duplex, Metal, SM/PC	NB-FOAD-019	SC-ST Adapter, Simplex, Plastic, SM
NB-FOAD-045	FC-FC Adapter, Duplex, Metal, SM/APC	NB-FOAD-020	SC-ST Adapter, Duplex, Plastic, MM
NB-FOAD-014	SC-SC Adapter, Simplex, Plastic, MM	NB-FOAD-021	SC-ST Adapter, Duplex, Plastic, SM
NB-FOAD-015	SC-SC Adapter, Simplex, Plastic, SM/PC	NB-FOAD-043	E2000-E2000 Adapter, Simplex, Plastic, SM/PC
NB-FOAD-046	SC-SC Adapter, Simplex, Plastic, SM/APC	NB-FOAD-049	E2000-E2000 Adapter, Simplex, Plastic, SM/APC

➤ Bare Fiber Adapters

Characteristics:

- Various receptacle type
- High stability
- Easy to operate
- Repeated use

Parameters:

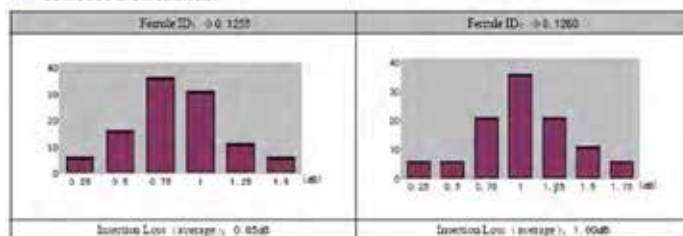
- Ferrule ID: $\phi 0.1255 / \phi 0.1260$
- Insertion Loss: $\leq 1.0\text{dB}$
- Repeatability: $\leq 0.2\text{dB}$
- Life time: ≥ 1000

NB-FOAD-057

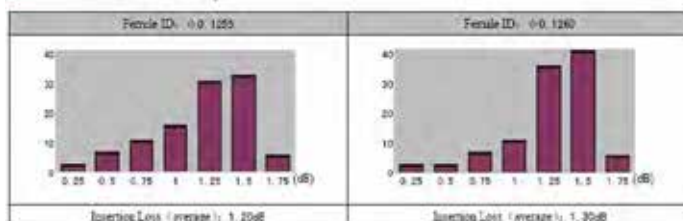


NB-FOAD-056

• Connected to SM connector

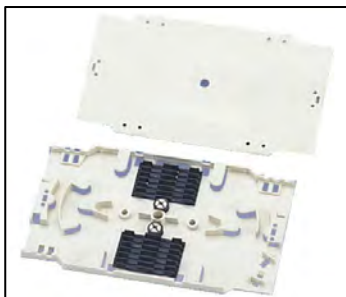


• Connected to bare fiber adapter

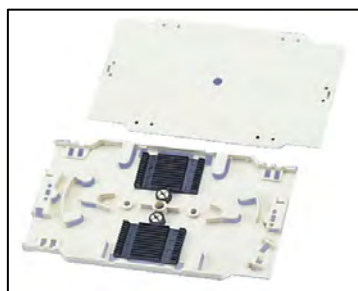


➤ Fiber Optic Splice Cassettes

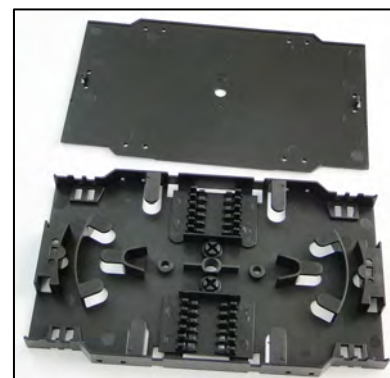
- **Material:** Flame-Resisting (UL94V0) PA
- **Color:** White & Black
- **Dimension:** 155x92x10mm



12 Core, P/N: **NB-FOPG-019**



24 Core, P/N: **NB-FOPG-020**



12 - 24 Core, P/N: **NB-FOPG-039**

➤ Fiber Optic Splice Protection Sleeve

Features:

- Single holed (preshrunk) and eliminates fiber threading.
- Smooth, de-burred stainless steel reinforcing member ends decrease and risk of fiber damage during installation.
- Extended liner length prevents contact between the fiber and the backbone.
- Clear sleeve design per sign easy centering of splice before heating.
- Sealing structure makes the splice free from the effect of temperature and humidity from environment.

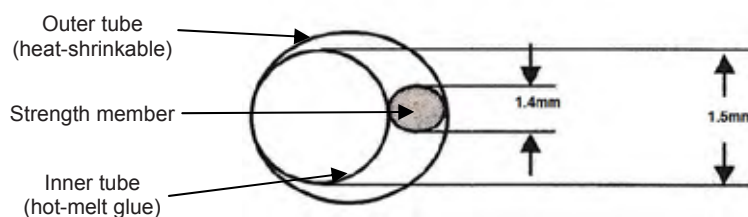
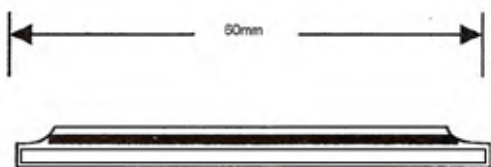


Application:

- A specially designed cross linked polyolefin tubing system, with meltable liner, providing strength and protection to optical fiber splices.

Usage Environment:

- Operating temperature: -55°C~+60°C
- Shrinking Temperature range: 90°C~+110°C



P/N (100-pack)	Sleeve length	Strength member length	Diameter after shrink	Fiber count	Recommended cleave length	Coating diameter
NB-FOPG-018	60mm	51mm	3.1mm	Single	16mm	0.25mm to 0.9mm

➤ Fiber Optic Termination Box



NB-FOCL-A



NB-FOCL-D



NB-FOCL-B

Ordering Information:

P/N	Description	No. of ports	Max. Capacity (core)
NB-FOCL-D	Termination Box, Plastic	2	24
NB-FOCL-B	Termination Box, Metal	2	48
NB-FOCL-A	Termination Box, Metal	2	24
NB-FOCL-C	Termination Box, Metal	2	24

➤ NB-FOCL-001

Application:

- Suitable for aerial and wall-mounting

Features:

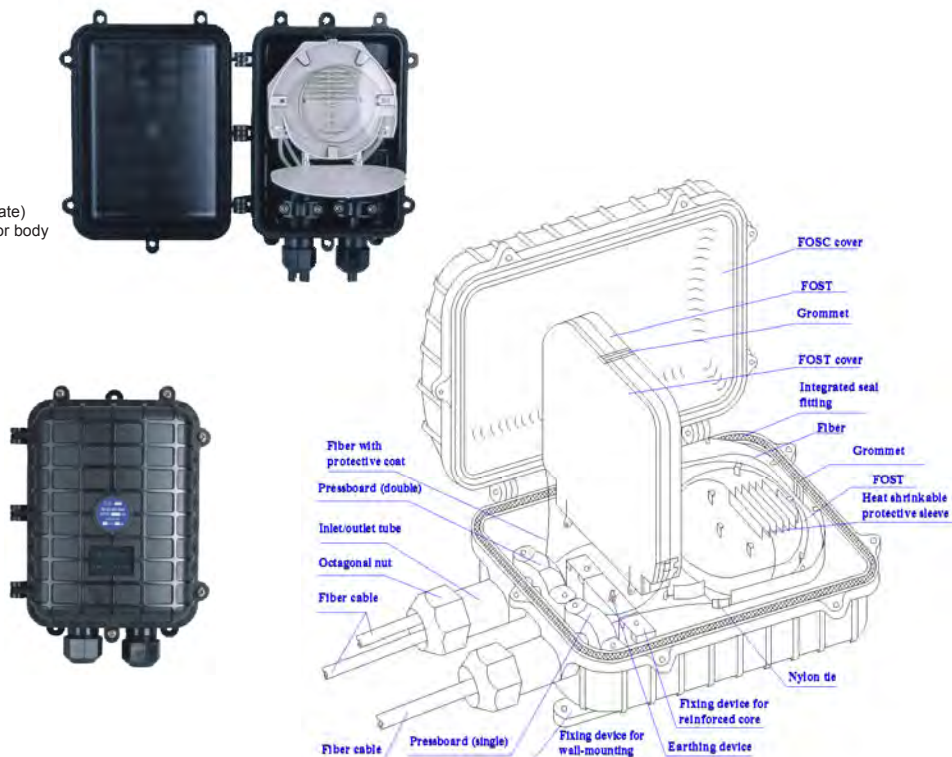
- Made of high-strength engineering plastic (polycarbonate)
- Winding tape sealing for cable & Mechanical sealing for body
- Innovative structure design and easy for operation
- Ambient temperature ranges from -40 to +60°C

Dimension and capacity:

- Outside dimension (LxWxH): 280x200x90 (mm)
- Weight (excluding outside box): 1200g – 1500g
- Number of inlet/outlet ports: 2
- Diameter of fiber cable: $\Phi 8 - \Phi 14$ (mm)
- Core capacity of FOSC: 48 (max)
- Number of splice tray: 4
- Core capacity per tray: 12 core

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube



Ordering Information:

P/N	Size (mm) L x W x H	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-001	280x200x90	48	2	$\Phi 14$	4	12

➤ NB-FOCL-002

Application:

- Suitable for aerial, wall-mounting, pipeline & underground

Features:

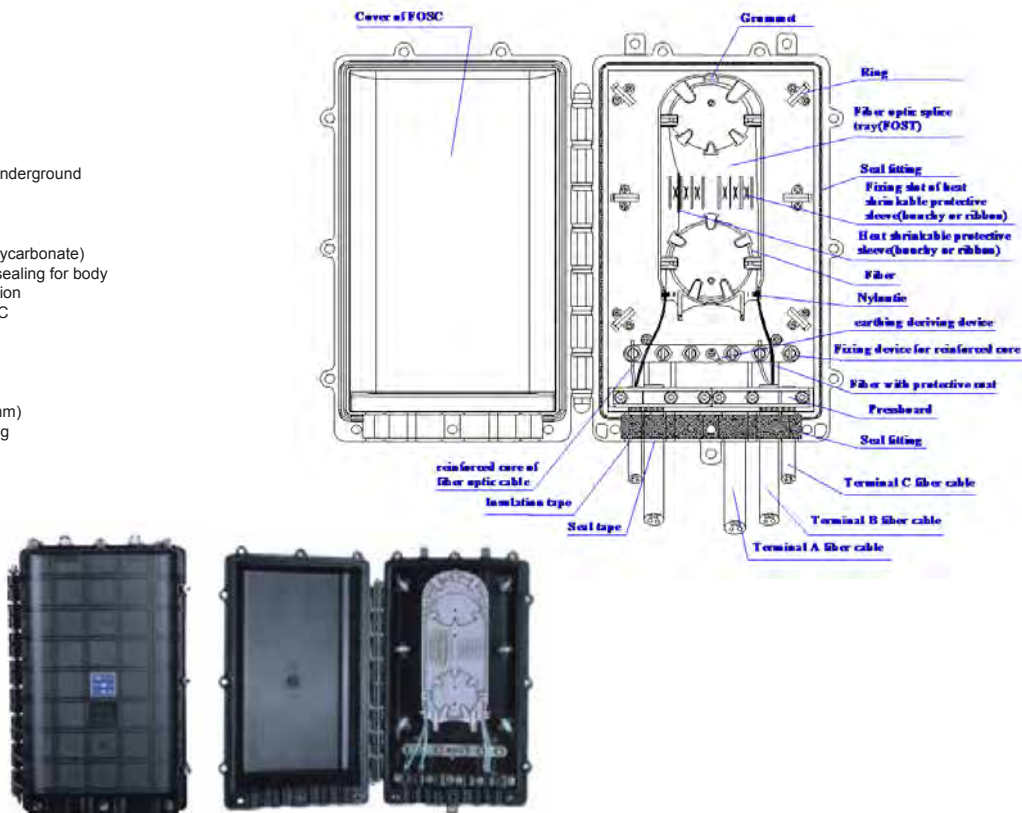
- Made of high-strength engineering plastic (polycarbonate)
- Winding tape sealing for cable & Mechanical sealing for body
- Innovative structure design and easy for operation
- Ambient temperature ranges from -40 to +65°C

Dimension and capacity:

- Outside dimension (LxWxH): 385x248x120 (mm)
- Weight (excluding outside box): 3200g – 3600g
- Number of inlet/outlet ports: 6
- Diameter of fiber cable: $\Phi 8 - \Phi 23$ (mm)
- Core capacity of FOSC: 96 (max)
- Number of splice tray: 8
- Core capacity per tray: 12 core

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube



Ordering Information:

P/N	Size (mm) L x W x H	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-002	385x248x120	96	6	$\Phi 23$	8	12

➤ NB-FOCL-003 & NB-FOCL-004

Application:

- Suitable for aerial, underground, wall-mounting, duct-mounting and handhole-mounting

Features:

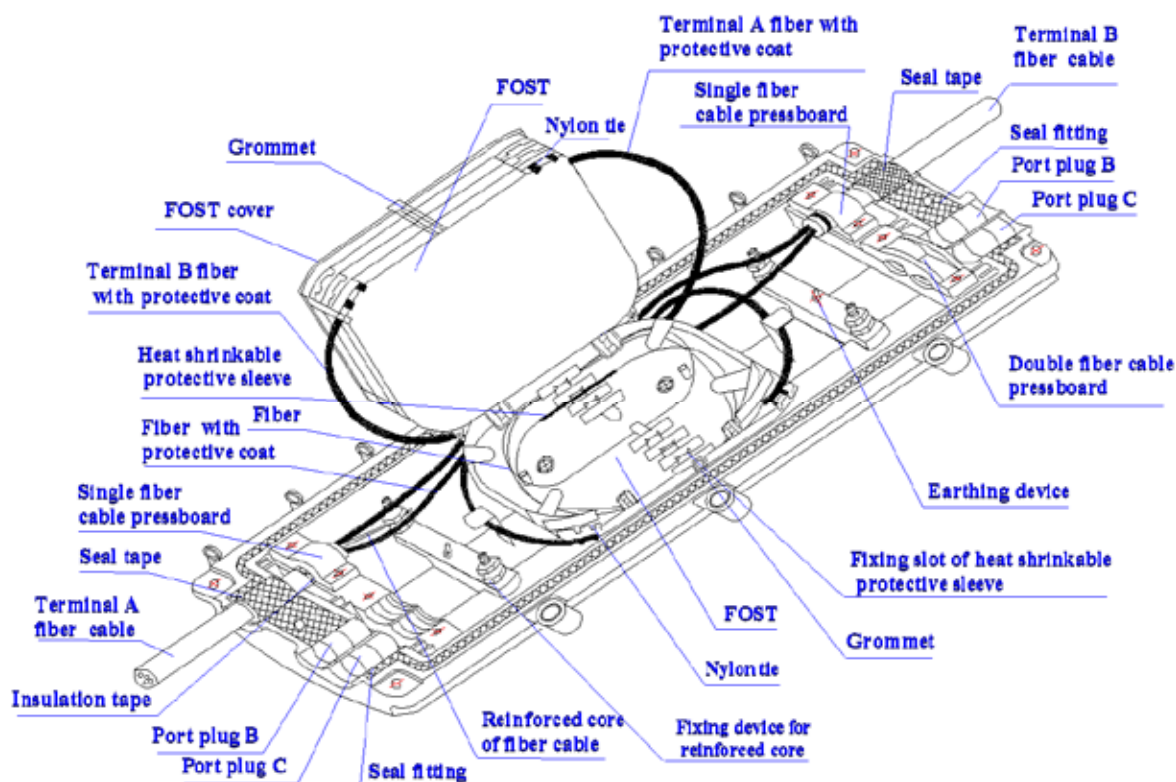
- Made of high-strength engineering plastic (polycarbonate)
- Winding tape sealing for cable & Mechanical sealing for body
- Innovative structure design and easy for operation
- Ambient temperature ranges from -40 to +65°C

Dimension and capacity:

- Outside dimension (LxWxH): 396x190x126 (mm)
- Weight (excluding outside box): 2500g – 2825g
- Number of inlet/outlet ports: 6
- Diameter of fiber cable: $\Phi 8 - \Phi 20$ (mm)
- Core capacity of FOSC: 96 (max)
- Number of splice tray: 4
- Core capacity per tray: 12 & 24 core

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube



Ordering Information:

P/N	Size (mm) L x W x H	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-003	396x190x126	48	6	$\Phi 20$	4	12
NB-FOCL-004	396x190x126	96	6	$\Phi 20$	4	24

➤ NB-FOCL-005

Application:

- Directly buried and special environment underground

Features:

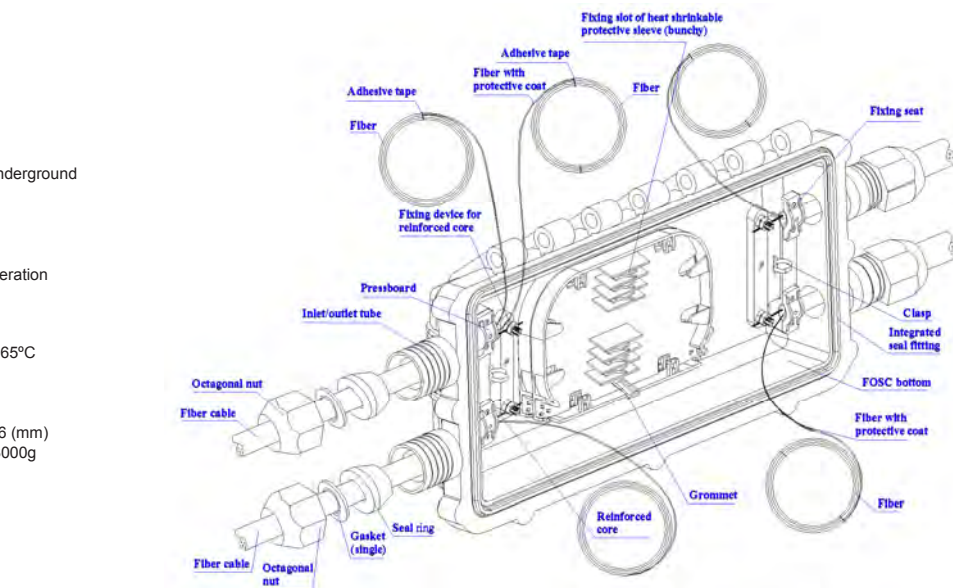
- Material suitable for underground
- Innovative structure design and easy for operation
- Anti-chemical cauterization
- Anti-hydrolysis Specialty
- Anti-termite Specialty
- Ambient temperature ranges from -40 to +65°C

Dimension and capacity:

- Outside dimension (LxWxH): 468x210x116 (mm)
- Weight (excluding outside box): 2650g – 3000g
- Number of inlet/outlet ports: 4
- Diameter of fiber cable: $\Phi 7 - \Phi 21$ (mm)
- Core capacity of FOSC: 96 (max)
- Number of splice tray: 4
- Core capacity per tray: 24 core

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube



Ordering Information:

P/N	Size (mm) L x W x H	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-005	468x210x116	96	4	$\Phi 21$	4	24

➤ NB-FOCL-006

Application:

- Suitable for aerial, wall-mounting, duct-mounting and underground

Features:

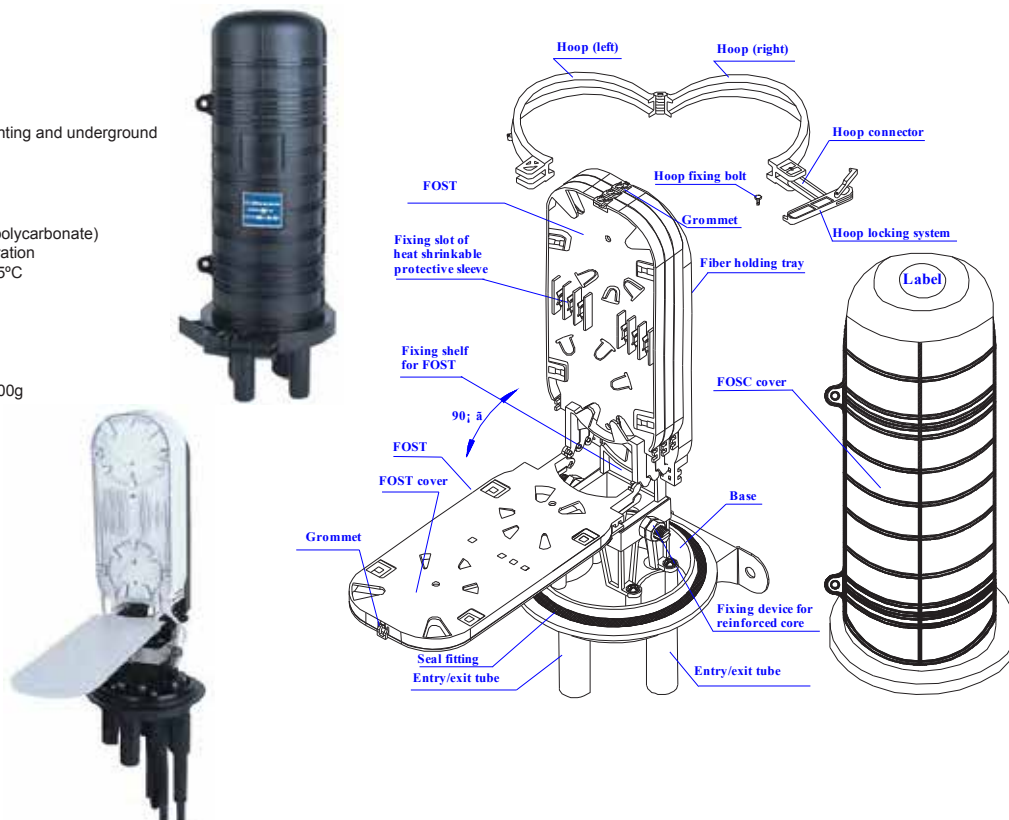
- Dome heat shrinkable seal
- Made of high-strength engineering plastic (polycarbonate)
- Innovative structure design and easy for operation
- Ambient temperature ranges from -40 to +65°C

Dimension and capacity:

- Outside dimension (HxD): 435x $\Phi 190$ (mm)
- Weight (excluding outside box): 2350g – 2600g
- Number of inlet/outlet ports: 5
- Diameter of fiber cable: $\Phi 8 - \Phi 25$ (mm)
- Core capacity of FOSC: 96 (max)
- Number of splice tray: 4
- Core capacity per tray: 24 core

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube (7 meters)
- Pressure testing valve
- Heat shrinkable fixing sleeves



Ordering Information:

P/N	Size (mm) H x D	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-006	435x $\Phi 190$	96	4	$\Phi 25$	4	24

➤ NB-FOCL-007

Application:

- Suitable for aerial, wall-mounting, duct-mounting and underground

Features:

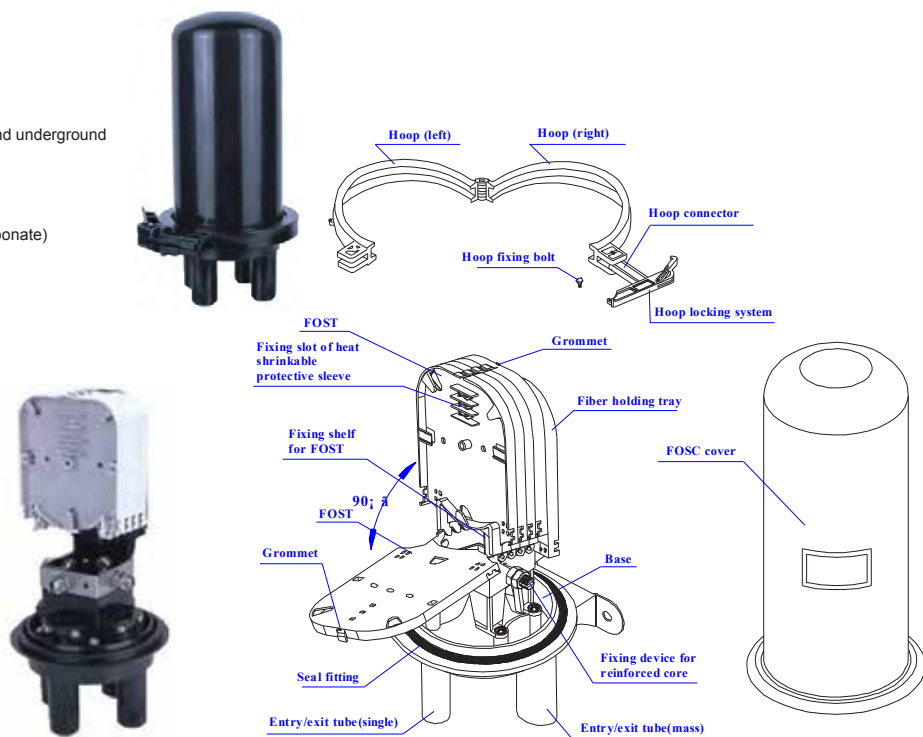
- Dome heat shrinkable seal
- Made of high-strength engineering plastic (polycarbonate)
- Innovative structure design and easy for operation
- Ambient temperature ranges from -40 to +65°C

Dimension and capacity:

- Outside dimension (HxD): 288xΦ178 (mm)
- Weight (excluding outside box): 1550g – 1740g
- Number of inlet/outlet ports: 4
- Diameter of fiber cable: Φ8 – Φ20 (mm)
- Core capacity of FOSC: 48 (max)
- Number of splice tray: 4
- Core capacity per tray: 12 core

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube (2 meters)
- Pressure testing valve
- Heat shrinkable fixing sleeves



Ordering Information:

P/N	Size (mm) H x D	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-007	288xΦ178	48	4	Φ20	4	12

➤ NB-FOCL-008

Application:

- Suitable for aerial, wall-mounting, duct-mounting and underground

Features:

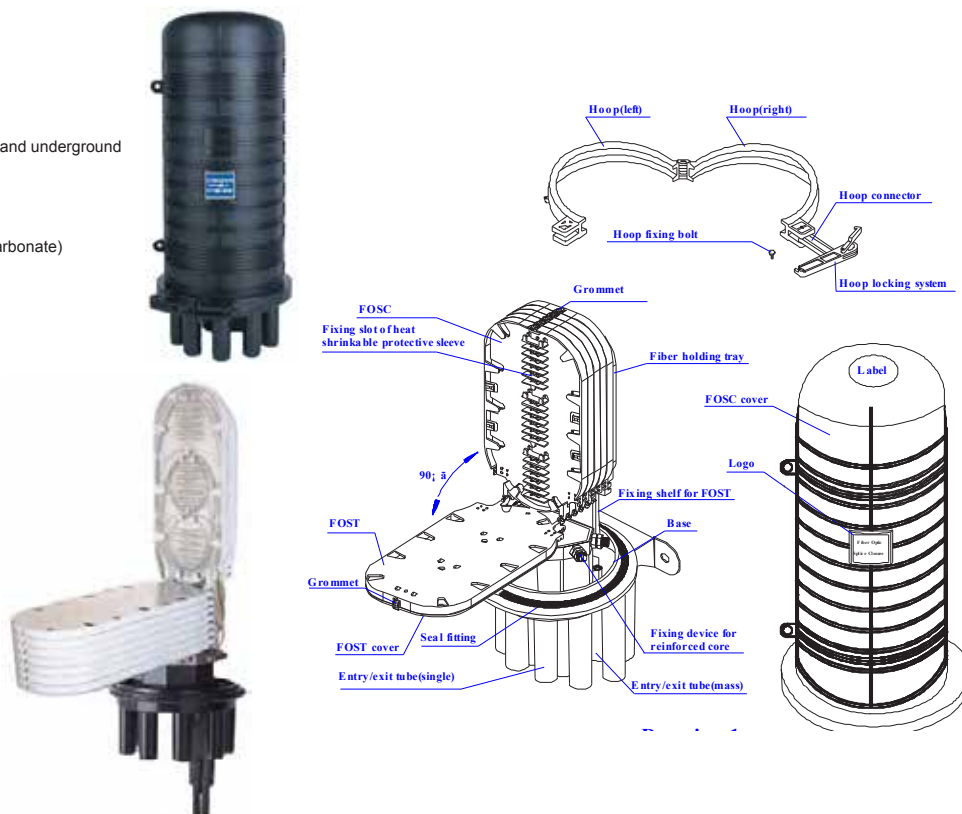
- Dome heat shrinkable seal
- Made of high-strength engineering plastic (polycarbonate)
- Innovative structure design and easy for operation
- Ambient temperature ranges from -40 to +65°C

Dimension and capacity:

- Outside dimension (HxD): 510xΦ250 (mm)
- Weight (excluding outside box): 3860g – 5270g
- Number of inlet/outlet ports: 8 - 19
- Diameter of fiber cable: Φ8 – Φ43 (mm)
- Core capacity of FOSC: 288 (max)
- Number of splice tray: 12
- Core capacity per tray: 24 core

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube (12 meters)
- Pressure testing valve
- Heat shrinkable fixing sleeves



Ordering Information:

P/N	Size (mm) H x D	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-008	510xΦ250	288	8 - 19	Φ43	12	24

➤ NB-FOCL-009

Application:

- Suitable for wall-mounting, duct-mounting and underground

Features:

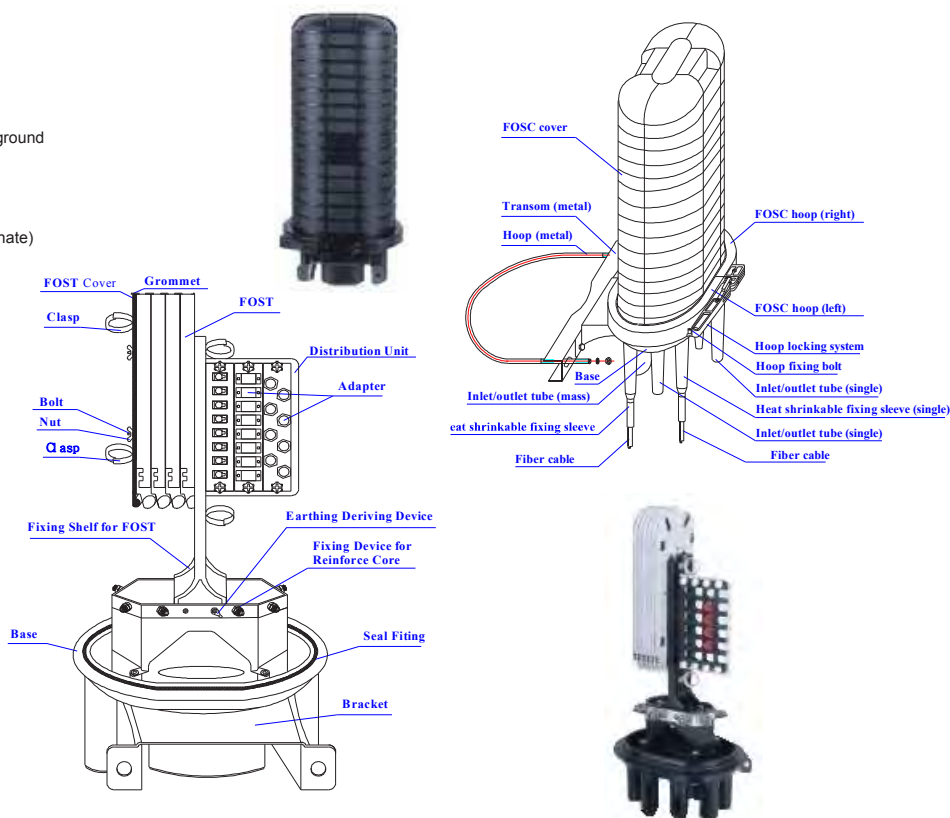
- Dome heat shrinkable seal
- Made of high-strength engineering plastic (polycarbonate)
- Innovative structure design and easy for operation
- Ambient temperature ranges from -40 to +65°C

Dimension and capacity:

- Outside dimension (HxD): 490xΦ220 (mm)
- Weight (excluding outside box): 2950g – 4250g
- Number of inlet/outlet ports: 8 - 10
- Diameter of fiber cable: Φ8 – Φ36 (mm)
- Core capacity of FOSC: 96 (max)
- Number of splice tray: 4
- Core capacity per tray: 24 core
- 24 port distribution panel

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube (4 meters)
- Pressure testing valve
- Heat shrinkable fixing sleeves



Ordering Information:

P/N	Size (mm) H x D	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-009	490xΦ220	96	8 - 10	Φ36	4	24

➤ NB-FOCL-010

Application:

- Suitable for aerial, wall-mounting, duct-mounting and underground

Features:

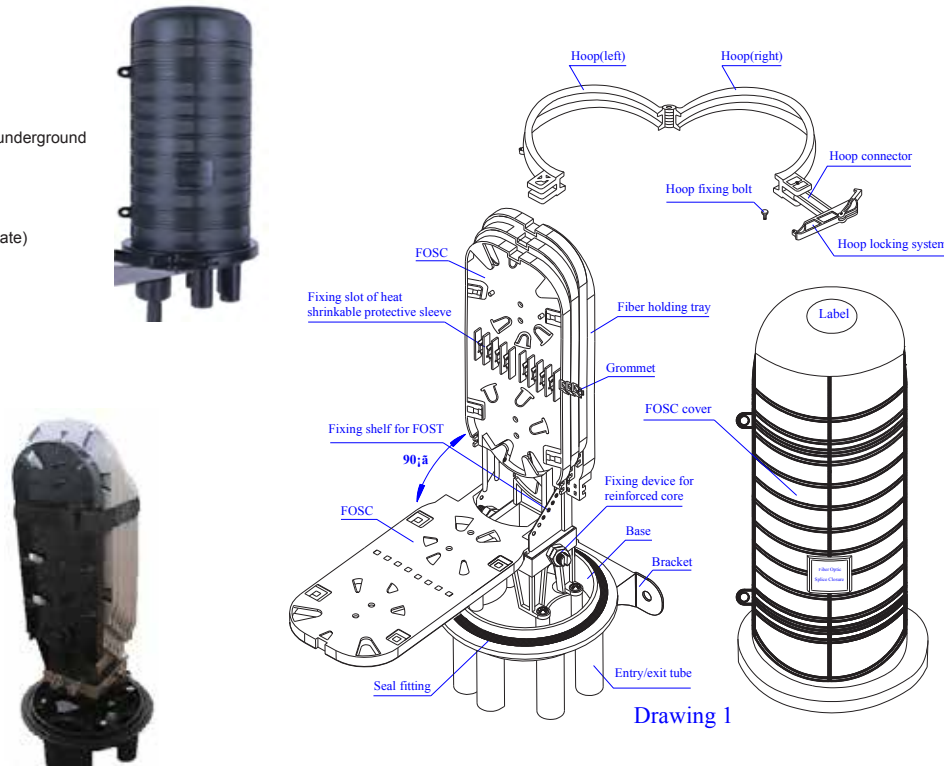
- Dome heat shrinkable seal
- Made of high-strength engineering plastic (polycarbonate)
- Innovative structure design and easy for operation
- Ambient temperature ranges from -40 to +65°C

Dimension and capacity:

- Outside dimension (HxD): 500xΦ228 (mm)
- Weight (excluding outside box): 3100g – 3930g
- Number of inlet/outlet ports: 5 - 14
- Diameter of fiber cable: Φ8 – Φ42 (mm)
- Core capacity of FOSC: 144 (max)
- Number of splice tray: 5
- Core capacity per tray: 32 core

Main accessories and special tools:

- Heat shrinkable protective sleeve
- Nylon tie
- Seal tape
- Hanging hook
- Earthing wire
- Labeling paper
- Buffer tube (7 meters)
- Pressure testing valve
- Heat shrinkable fixing sleeves



Ordering Information:

P/N	Size (mm) H x D	Core capacity	Cable Port (max)	Max diameter of cable (mm)	Number of Splice tray	Core Capacity per tray
NB-FOCL-010	500xΦ228	144	5 - 14	Φ8 – Φ42	5	32