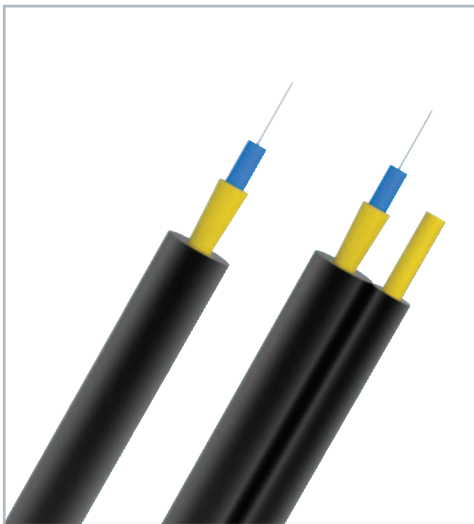


www.networkcable.co.kr

OPTICAL FIBER **CABLE**

NWC Network cable

THE BEST SOLUTIONS FOR FTTH COMMUNICATION NETWORK



WHO WE ARE

NWC (Networkcable Co.,Ltd) is a manufacturing company specializing in passive optical network components and solutions with more than 13 years experience.

Since its founding in 1999, NWC has acted from a corporate philosophy of contributing to the development of the global industry through technology and has been focusing on strengthening competitive power.

Through this strategy, it obtained product differentiation for Passive Components, Distribution System, Passive and Active Devices so on, compared with other competitors and had additional products lineup such as FTTH products, Distribution product.

In 2000, Networkcable Co.,Ltd established an office in USA in 2009 and additional factories in Vietnam in 2005 and in China in 2008 for doing market preoccupation and strengthening competitiveness.

These locations help keep our manufacturing operations cost effective and yet able to provide a meticulous workforce that meets our performance critical workmanship standards in the areas of quality, safety and reliability.

WHAT WE ARE STRONG AT



We have been closely involved in many projects from various telecommunication companies over the years. From a lot of experience of developing, designing and manufacturing optical passive components, we get to understand what customers want. Also, these experiences have led us to develop new technologies allowing fast production, easy installation, robust quality.

Our R&D team has considerable expertise in optical technology, industrial design, structure design, functional design to fulfill the product projects from various customer. Powerful R&D team is the strong support and assurance for good quality and competitive products. "Innovative Design" and "Original Product" are the working motto of our R&D team. We contribute significantly to the development of innovative products. To summarize our standard: optimum functionality, compact and convenient design and competitive price. In the stage of development, cost-effectiveness is always within our attention.



For more than a decade, we have been committed to providing first class quality products. Our commitment to the highest standards of quality has earned us valued and trusting partnerships with some of the world's leading companies. In today's highly demanding global environment, we understand that the highest quality must be guaranteed. NWC is ISO-14001/TL 9000 certified company and products are manufactured and tested to meet the most stringent industry standards.



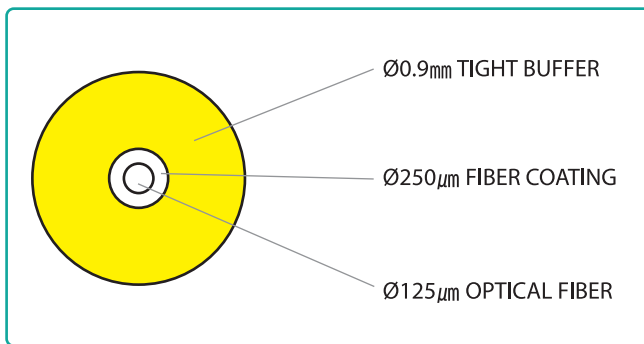
NWC has been making every effort to increase its efficiency and productivity. One of our efforts is an employee suggestion system. The ideas generated by workers can range from simple quality of work life improvements to larger streamlining issues that can save the company many thousands of dollars per year. It enabled us to achieve cost savings and improve product quality, workplace efficiency, customer service and working condition. Over 13 years, we believe that there has been a lot of improvements and we have expand our knowledge on time-saving, cost-saving.

Tight Buffered Fiber

01 DESCRIPTION

- Single-mode or multi-mode fiber
- Light weight, Easy to Strip, Low attenuation
- Various indoor optical fiber cable
- Excellent mechanical & environmental performance
- Passive / active devices
- Sheath materials : PVC, LSZH, Nylon, Hytrel & etc

02 STRUCTURE



03 MECHANICAL PERFORMANCE

(Nominal)

Type	Fiber count	Outer diameter(mm)"D"	Weight(kg/km)	Min. Bending radius(mm)	
				During installation	After installation
900	1	0.9	0.9	D x 20	D x 10

04 OPTICAL PERFORMANCE

(Nominal)

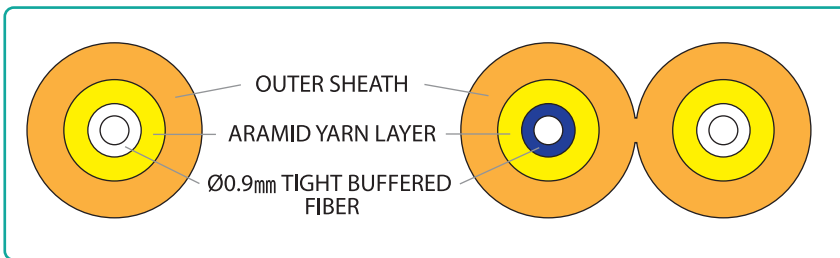
	9/125µm (1310/1550nm)	50/125µm Standard (850/1300nm)	50/125µm Gigabit (850/1300nm)	50/125µm 10Gigabit (850/1300nm)	62.5/125µm Standard (850/1300nm)	62.5/125µm Gigabit (850/1300nm)
Attenuation(dB/km) Typical values	0.5/0.4	3.0/1.0	3.0/1.0	3.0/1.0	3.5/1.0	3.5/1.0
Minimum Band width (MHz.km)	-	500/500	500/500	1500/500	200/500	200/500
Ethernet Link Distance(m)	10Gbps	-	-	300	-	-
	1Gbps	-	-	550/550	-	250/550

Jumper Cord

01 DESCRIPTION

- Single-mode or multi-mode fiber
- Light weight, Easy to Strip, Low attenuation
- High strength aramid yarn, high tensile strength, long term stable transmission
- Pigtail and jumper cord with connector
- Indoor cable network, Horizontal cabling inside building, Ethernet, FDDI LAN
- Sheath materials : PVC, LSZH & etc

02 STRUCTURE



03 MECHANICAL PERFORMANCE

(Nominal)

Type	Fiber counts	Outer diameter(mm)"D"	Weight(kg/km)	Maximun tensile load (kg-f)	Min. Bending radius(mm)	
					During installation	After installation
Simplex	1	1.6	3	10	D x 20	D x 10
		2.0	4	15		
		2.4	5	25		
		3.0	7	30		
Duplex	2	1.6 X 3.2	6	20	D x 20	D x 10
		2.0 X 4.0	8	30		
		2.4 X 4.8	10	50		
		3.0 X 6.0	14	60		

※ Fiber color coating : up to customer's request.

04 OPTICAL PERFORMANCE

(Nominal)

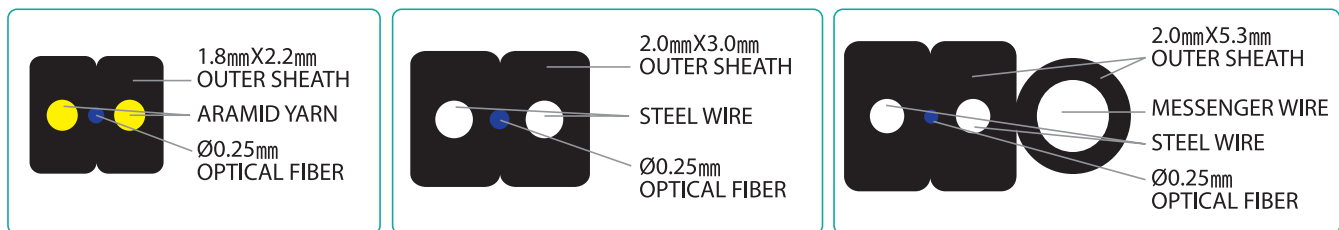
	9/125 μm (1310/1550 nm)	50/125 μm Standard (850/1300 nm)	50/125 μm Gigabit (850/1300 nm)	50/125 μm 10Gigabit (850/1300 nm)	62.5/125 μm Standard (850/1300 nm)	62.5/125 μm Gigabit (850/1300 nm)
Attenuation(dB/km) Typical values	0.5/0.4	3.0/1.0	3.0/1.0	3.0/1.0	3.5/1.0	3.5/1.0
Minimum Band width (MHz·km)	-	500/500	500/500	1500/500	200/500	200/500
Ethernet Link Distance(m)	10Gbps	-	-	300	-	-
	1Gbps	-	-	550/550	-	250/550

Optical Drop Cable(Flat type)

01 DESCRIPTION

- Single-mode or multi-mode fiber
- Light weight, Easy to Strip, Low attenuation
- Indoor, Duct, Aerial
- Excellent mechanical & environmental performance
- Passive / active devices
- Sheath materials : PVC, LSZH, TPU & etc

02 STRUCTURE



03 MECHANICAL PERFORMANCE

(Nominal)

Type	Fiber counts	Outer diameter(mm)	Weight(kg/km)	Maximun tensile load (kg-f)	Min. Bending radius(mm)	
					During installation	After installation
1.8 X 2.2	1	1.8 X 2.2	5.2	50/100	60	30
	2					
2.0 X 3.0	1	2.0 X 3.0	11	20		
	2					
2.0 X 5.3	1	2.0 X 5.3	20	60		
	2					

04 OPTICAL PERFORMANCE

(Nominal)

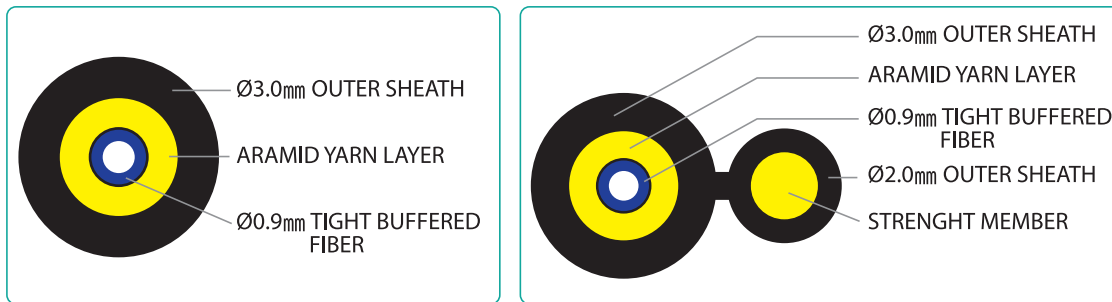
	9/125 μ m (1310/1550nm)	50/125 μ m Standard (850/1300nm)	50/125 μ m Gigabit (850/1300nm)	50/125 μ m 10Gigabit (850/1300nm)	62.5/125 μ m Standard (850/1300nm)	62.5/125 μ m Gigabit (850/1300nm)
Attenuation(dB/km) Typical values	0.5/0.4	3.0/1.0	3.0/1.0	3.0/1.0	3.5/1.0	3.5/1.0
Minimum Band width (MHz.km)	-	500/500	500/500	1500/500	200/500	200/500
Ethernet Link Distance(m)	10Gbps	-	-	300	-	-
	1Gbps	-	-	550/550	-	250/550

Optical Drop Cable(Round type)

01 DESCRIPTION

- Single-mode or multi-mode fiber
- Tight buffered cable
- Light weight, small diameter, easy handling, low attenuation
- High strength aramid yarn, high tensile strength, long term stable transmission
- Indoor, Duct, Aerial
- Sheath materials : PVC, LSZH, TPU & etc

02 STRUCTURE



03 MECHANICAL PERFORMANCE

Type	Fiber count	Buffer diameter(mm)	Outer diameter(mm)	Weight(kg/km)	Maximum tensile load (kg-f)	Min. Bending radius(mm)	
						During installation	After installation
Round cable without M/W	1	0.9	3.0	8	66	60	30
Round cable with M/W	1		3.0 X 2.0	12	66		

(Nominal)

04 OPTICAL PERFORMANCE

	9/125 μm (1310/1550 nm)	50/125 μm Standard (850/1300 nm)	50/125 μm Gigabit (850/1300 nm)	50/125 μm 10Gigabit (850/1300 nm)	62.5/125 μm Standard (850/1300 nm)	62.5/125 μm Gigabit (850/1300 nm)
Attenuation(dB/km) Typical values	0.5/0.4	3.0/1.0	3.0/1.0	3.0/1.0	3.5/1.0	3.5/1.0
Minimum Band width (MHz·km)	-	500/500	500/500	1500/500	200/500	200/500
Ethernet Link Distance(m)	10Gbps	-	-	300	-	-
	1Gbps	-	-	550/550	-	250/550

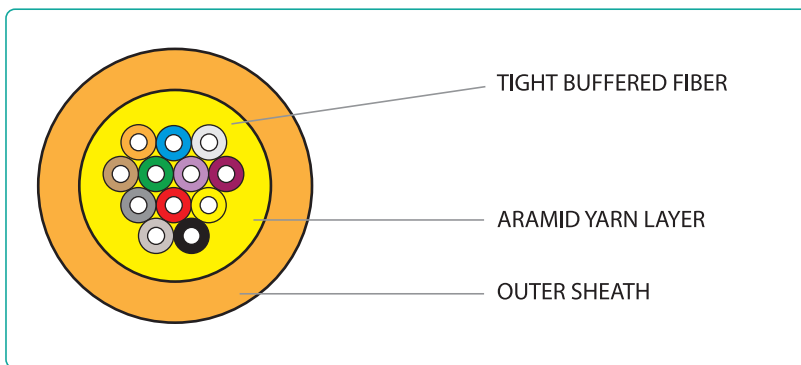
(Nominal)

Distribution Optical Cable

01 DESCRIPTION

- Single-mode or multi-mode fiber
- Tight buffered fiber
- Aramid yarn reinforcement for fiber protection
- FTTx Networking, Local area network
- Inter building & communication link
- Sheath materials : PVC, LSZH & etc

02 STRUCTURE



03 MECHANICAL PERFORMANCE

(Nominal)

Fiber counts	Outer diameter(mm)"D"	Weight(kg/km)	Maximum tensile load(kg-f)	Min. Bending radius(mm)	
				During installation	After installation
2	4.5	20	45	D X 20	D X 10
4	5	25	45		
6	5	25	45		
8	6	35	60		
10	7	40	60		
12	7	40	60		

04 OPTICAL PERFORMANCE

(Nominal)

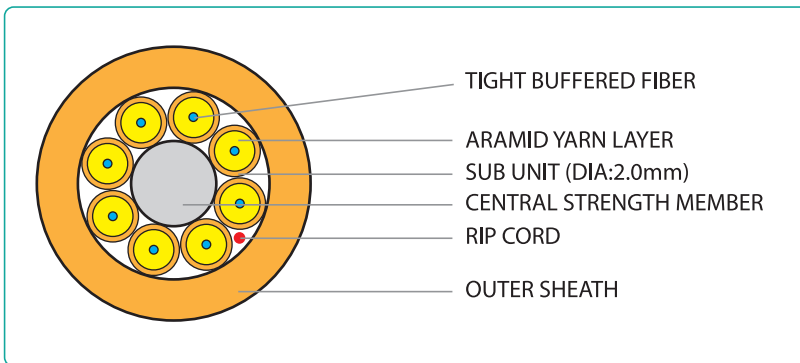
	9/125 μ m (1310/1550 nm)	50/125 μ m Standard (850/1300 nm)	50/125 μ m Gigabit (850/1300 nm)	50/125 μ m 10Gigabit (850/1300 nm)	62.5/125 μ m Standard (850/1300 nm)	62.5/125 μ m Gigabit (850/1300 nm)
Attenuation(dB/km) Typical values	0.5/0.4	3.0/1.0	3.0/1.0	3.0/1.0	3.5/1.0	3.5/1.0
Minimum Band width (MHz.km)	-	500/500	500/500	1500/500	200/500	200/500
Ethernet Link Distance(m)	10Gbps	-	-	300	-	-
	1Gbps	-	-	550/550	-	250/550

Breakout Optical Cable

01 DESCRIPTION

- Single-mode or multi-mode fiber
- Decrease in installation cost
- Easy connectorization
- FTTx networking, Local area network
- Inter building & communication link
- Sheath materials : PVC, LSZH & etc

02 STRUCTURE



03 MECHANICAL PERFORMANCE

Fiber counts	Outer diameter(mm)"D"	Weight(kg/km)	Maximum tensile load(kg-f)	Min. Bending radius(mm)	
				During installation	After installation
4	7	42	80	D X 20	D X 10
6	8.5	77	100		
8	9.5	85	120		
12	10.5	95	140		

(Nominal)

04 OPTICAL PERFORMANCE

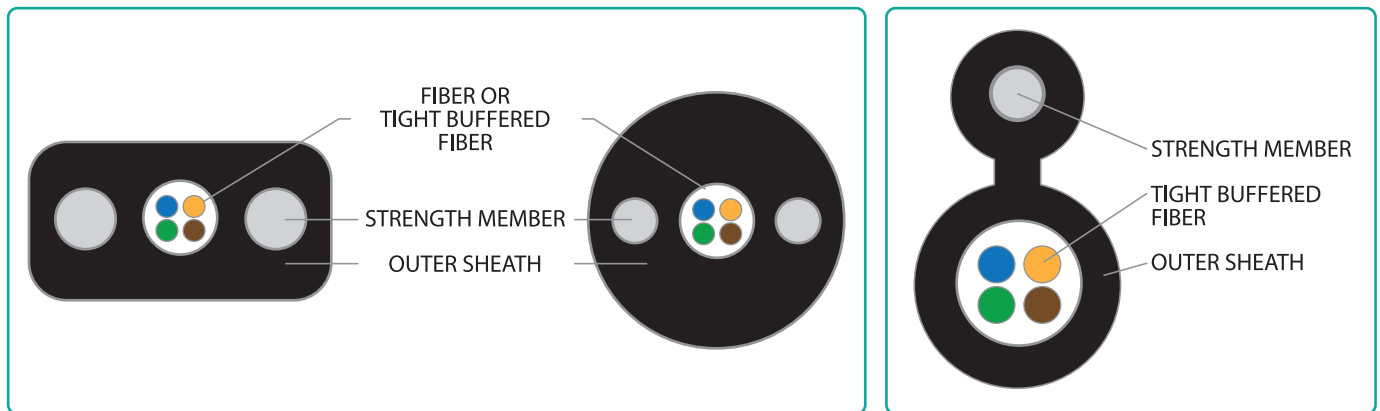
	(Nominal)					
	9/125 μm (1310/1550 nm)	50/125 μm Standard (850/1300 nm)	50/125 μm Gigabit (850/1300 nm)	50/125 μm 10Gigabit (850/1300 nm)	62.5/125 μm Standard (850/1300 nm)	62.5/125 μm Gigabit (850/1300 nm)
Attenuation(dB/km) Typical values	0.5/0.4	3.0/1.0	3.0/1.0	3.0/1.0	3.5/1.0	3.5/1.0
Minimum Band width (MHz·km)	-	500/500	500/500	1500/500	200/500	200/500
Ethernet Link Distance(m)	10Gbps	-	-	300	-	-
	1Gbps	-	-	550/550	-	250/550

Special Optical Cable

01 DESCRIPTION

- Optical fiber & tight buffer are available
- Excellent mechanical & optical performance
- Duct & Aerial installation
- Condominium, Duct, Aerial Laying, FTTH
- Sheath materials : PVC, LSZH, TPU & etc

02 STRUCTURE



03 MECHANICAL PERFORMANCE

(Nominal)

Type	Class		Outer diameter(mm)"D"	Weight(kg/km)	Maximum tensile load(kg-f)	Min. Bending radius(mm)	
	Fiber counts	Type				During installation	After installation
Rectangle	2~12	Fiber	3 X 6	28	150	D X 20	D X 10
	2~4	Tight buffered fiber	4 X 8	48			
Circle	2~12	Fiber	7	53	150		
	2~4	Tight buffered fiber	6.3	47			
Fig-8 type	2~12	Fiber	7.7 X 2.7	25	135		
	2~4	Tight buffered fiber	11 X 7.5	50			

04 OPTICAL PERFORMANCE

(Nominal)

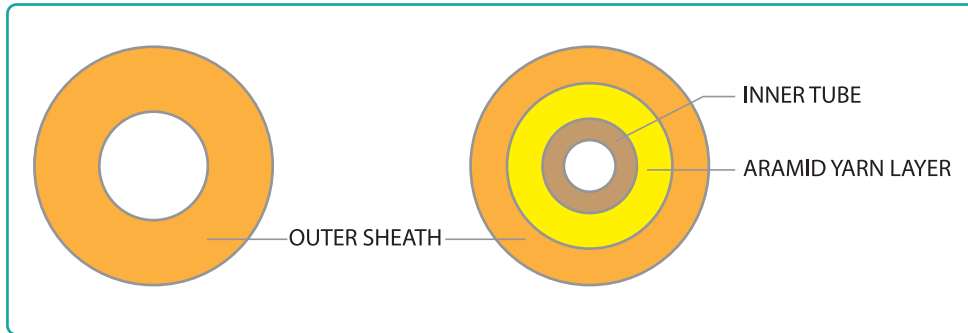
	9/125 μ m (1310/1550nm)	50/125 μ m Standard (850/1300nm)	50/125 μ m Gigabit (850/1300nm)	50/125 μ m 10Gigabit (850/1300nm)	62.5/125 μ m Standard (850/1300nm)	62.5/125 μ m Gigabit (850/1300nm)
Attenuation(dB/km) Typical values	0.5/0.4	3.0/1.0	3.0/1.0	3.0/1.0	3.5/1.0	3.5/1.0
Minimum Band width (MHz.km)	-	500/500	500/500	1500/500	200/500	200/500
Ethernet Link Distance(m)	10Gbps	-	-	300	-	-
	1Gbps	-	-	550/550	-	250/550

Furcation Tube

01 DESCRIPTION

- Easy insertion of optical fiber/tight buffered fiber
- Single mode or multimode optical fiber connection
- Sheath materials : PVC, LSZH, Hytel & etc

02 STRUCTURE



03 MECHANICAL PERFORMANCE

(Nominal)

TYPE	Inner/outer diameter (mm)	Weight(kg/km)	Maximum tensile load(kg·f)		Min. Bending radius(mm)		Application
			During installation	After installation	During installation	After installation	
Simplex	0.5/0.9	1	-	-	18	9	Protection of 250 μm optical fiber
	0.5/2.0	4	20	10	40	20	
	0.5/2.4	5.5	40	20	48	24	
	0.5/2.8	7	40	20	60	30	
	1.2/2.8	8	10	20	60	30	Protection of 600&900 μm tight buffered fiber

Example Ordering Information

DC12-070C-SSL/900-OFNP-WB

(A)

(B)

(C)

(D)

(E)

(F)

(G)

(H)

(A) Cable Type and Fiber Count

1. TB: Tight Buffered Fiber
2. JC: Jumper Cord
3. DR: Drop Cable
4. DC: Distribution Cable
5. BC: Breakout Cable
6. SC: Special Cable
7. FT: Furcation Tube

(B) Diameter in one-tenth mm

(Example :070 = 7.0mm)

(C) Sheath Material Code

1. A: PVC
2. B: FR-PVC
3. C: LSZH (Indoor)
4. D: LSZH (Outdoor)
5. E: Polyurethane
6. F: FR-Polyurethane

(D) Fiber Type Code

1. S: 9/125 Single-Mode
2. M: 50/125 Multi Mode
3. H: High N.A Multi Mode

(E) Fiber Spec Guide

1. MS: 50/125 Standard
2. MG: 50/125 Gigabite
3. MT: 50/125 10Gigabite
4. HS: 62.5/125 Standard
5. HG: 62.5/125 Gigabite
6. SS: 9/125 G652 Standard
7. SL: 9/125 G652D LWPF
8. SB: 9/125 G657 Bend-Free

(F) Buffer Code

1. 250: 250 μ m diameter
2. 600: 600 μ m diameter
3. 900: 900 μ m diameter

(G) UL Listed

1. OFNR: riser-rated
2. OFNP: plenum-rated

(H) Optional: Special Construction

1. ES: Easy Strip
2. WB: Water-Blocked
3. AL: Aluminium Tape
4. ST: Steel Tape



Network cable

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