

# FIBER OPTICS PRODUCT

Optical Fiber · Cable · Connectivity · Accessories · Equipment



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# GLOBAL LEADING COMPANY IN FIBER OPTICS

TAIHAN FIBER OPTICS

- Long history over 60 years
- Enhanced high technology in telecommunications
- Customer value in focus





- 2014 Developed 200um optical fiber(ANYWAVE 200) , Develops optical communication total solution(wire-wireless)
- 2013 Developed Korea's first ultra low loss fiber(ANYWAVE-LL)
- 2011 Business acquisition sign of Taihan Electric Wire Co., LTD. optical communication division  
(Change the company name : Optomagic Co., Ltd. → TAIHAN FIBEROPTICS Co., Ltd.)
- 2010 Succeeded in mass-producing its "Bending-reinforced optical fiber"
- 2004 Developed the intergrated FTTH solution
- 2001 Taihan Electronic Wire Group separates the fiber optics department as Taihan Fiberoptics Co., Ltd.  
(formerly Optomagic Co., Ltd.) and begins production of fiber optics
- 1998 Optical communication plant expansion in Anyang  
(Introduction of VAD facilities and DRAWING facilities, Construct mass production system)
- 1996 Developed fiber distribution frame, optical terminal box and mechanical optical connector
- 1988 Developed submarine optical cable and leakage coaxial cable
- 1985 Began manufacturing of optical fiber ground wire(OPGW)
- 1981 Produced the nation's first optical cable & long wavelength low-loss fiber
- 1977 Developed optical fiber in Korea(MCVD method)
- 1974 Established TAIHAN FACTORY(Before Optomagic Co., Ltd.)
- 1961 Produced lead-sheathed communication cable for the first time in Korea
- 1955 Established TAIHAN ELECTRIC WIRE CO., LTD.

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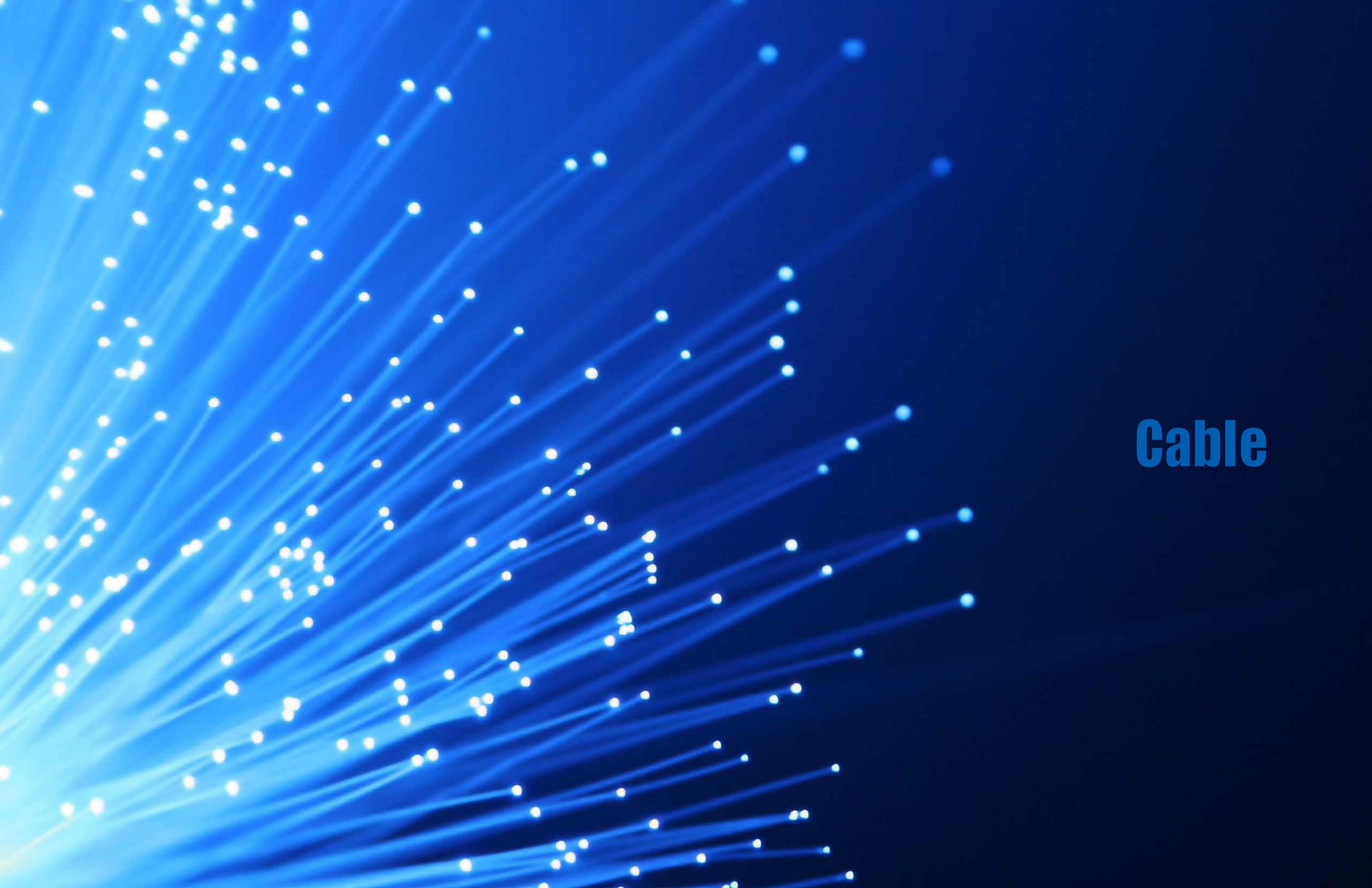
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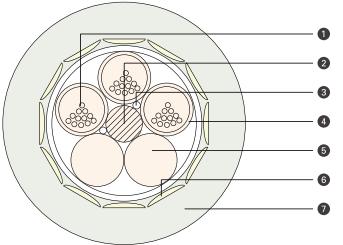
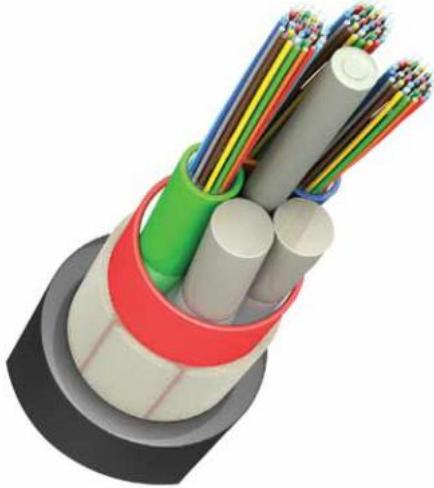
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The background of the image features a dense bundle of optical fibers. These fibers are represented by thin, glowing blue lines that converge towards the bottom left of the frame. At the points where the fibers meet, there are small, bright white dots representing light being emitted or reflected. The overall effect is a dynamic, glowing network of lines and points against a solid dark blue background.

**Cable**



## Mini Optical Cable(5 Unit)



- ① Optical fiber : Single mode optical fiber(SMF), multi mode optical fiber(MMF), non-zero dispersion shifted optical fiber(NZ-DSF)
- ② Central strength member : Fiber reinforced plastic(FRP)
- ③ Moisture barrier : Water blocking yarn
- ④ Loose tube : Thermoplastic material(polybutylene terephthalate)
- ⑤ Filler : Polyethylene string
- ⑥ Non-metal strength member : Glass yarn or aramid yarn
- ⑦ Sheath : Black polyethylene

### Feature

- Standard fiber count : 2~60 fibers
- Excellent optical performance
- Excellent mechanical and environmental performance
- Dry or jelly filled type
- Small diameter and light weight

### Application

- Local area network(LAN)
- Subscriber network system
- Fiber to the home(FTTH)

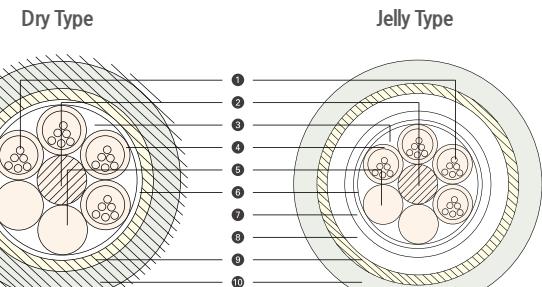
### Cable Specification

No. of fibers Per tube	No. of fibers	Outer dia.(mm)	Cable wt.(kg/km)
6	6~30	8	43
12	32~60	8	45

### Mechanical & Environmental Characteristic

Characteristic		Unit	Specification
Allowable tensile strength		kgf	100
Crush resistance		kgf/cm	5
Minimum bending diameter	Dynamic	mm	20 times of cable diameter
	Static		10 times of cable diameter
Operating temperature range		°C	-40~+70
Delivery length		km	1~6

## Loose Tube Cable for Duct



- ① Optical fiber : Single mode optical fiber(SMF), multi mode optical fiber(MMF), non-zero dispersion shifted optical fiber(NZ-DSF)
- ② Central strength member : Galvanized steel wire or fiber reinforced plastic(FRP)
- ③ Moisture barrier 1 : Water blocking jelly filling compound of water blocking yarn
- ④ Loose tube : Thermoplastic material(polybutylene terephthalate)
- ⑤ Filler : Polyethylene string
- ⑥ Wrapping tape : Non-hygroscopic plastic tape or water blocking tape(optional)
- ⑦ Moisture barrier 2 : Laminated aluminum tape(optional)
- ⑧ Sheath : Black polyethylene
- ⑨ Non-metal strength member : Glass yarn or aramid yarn

### Feature

- Standard fiber count : 2~312 fibers
- Excellent mechanical and environmental performance
- Anti-termite treatment(optional)
- Excellent optical performance
- High tensile strength design
- Dry or jelly filled type

### Application

- Local area network(LAN)
- Subscriber network system
- Long haul communication system

### Cable Specification

No. of fibers Per tube	No. of fibers	Dry type		Jelly filled type	
		Outer dia.(mm)	Cable wt.(kg/km)	Outer dia.(mm)	Cable wt.(kg/km)
12	2~36	10,5	90	10,9	122
	48~72	11,1	102	11,5	136
	74~96	12,5	130	12,8	142
	98~120	13,9	158	14,2	174
	122~144	15,5	195	15,8	214
	288	18,2	253	18,5	341
	312	19	276	19,3	374

### Mechanical & Environmental Characteristic

Characteristic	Unit	Specification	
		Dry type	Jelly filled type
Allowable tensile strength	kgf	135~450	180~550
Crush resistance	kgf/cm	20	
Minimum bending diameter	Dynamic	mm	20 times of cable diameter
	Static		10 times of cable diameter
Operating temperature range	°C		-40~+70
Delivery length	km		1~6

## Loose Tube Cable for Direct Buried

**Feature**

- Standard fiber count : 2~312 fibers
- Excellent mechanical and environmental performance
- Anti-termite and anti-rodent treatment(optional)
- Excellent optical performance
- High tensile strength design
- Dry or jelly filled type

**Application**

- Local area network(LAN)
- Subscriber network system
- Long haul communication system

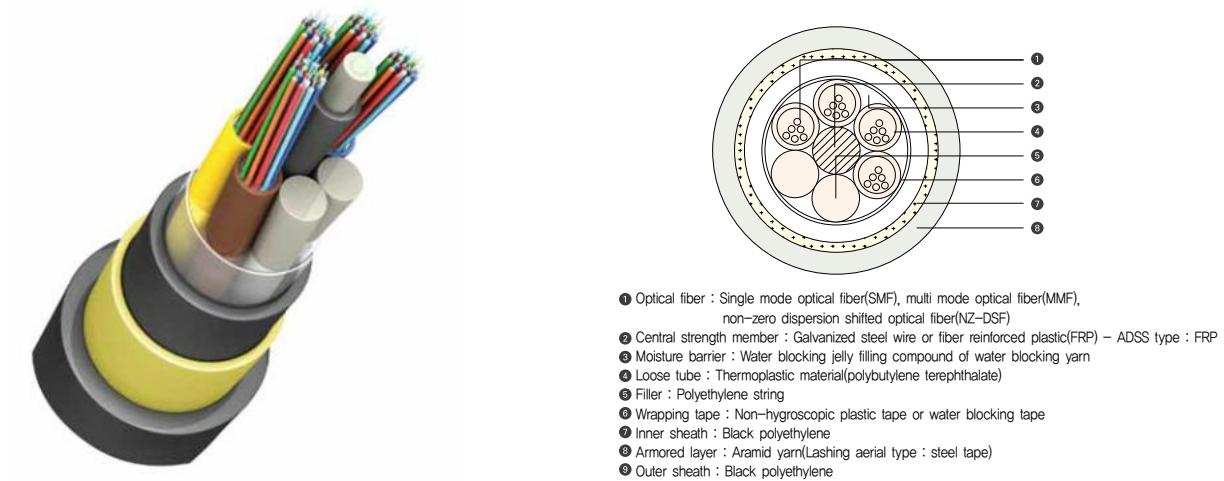
**Cable Specification**

No. of fibers Per tube	No. of fibers	Steel tape armored		Steel wire armored	
		Outer dia.(mm)	Cable wt.(kg/km)	Outer dia.(mm)	Cable wt.(kg/km)
12	2~36	14.6	200	15.9	419
	48~72	15.2	217	16.5	451
	74~96	16.6	250	17.9	508
	98~120	18.2	295	19.5	584
	122~144	19.8	344	21.1	666
	288	21.6	406	23	770
	312	22.4	436	23.8	816

**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification	
		Steel tape armored	Steel wire armored
Allowable tensile strength	kgf	200~500	500~2000
Crush resistance	kgf/cm		40
Minimum bending diameter	Dynamic	mm	20 times of cable diameter
	Static		10 times of cable diameter
Operating temperature range	°C		-40~+70
Delivery length	km		1~6

## Loose Tube Cable for Aerial(ADSS Type)\_Type. I

**Feature**

- Standard fiber count : 2~144 fibers
- Excellent mechanical and environmental performance
- Protection from lighting and electrical interference
- Dry or jelly filled type

**Application**

- Local area network(LAN)
- Subscriber network system
- Long haul communication system
- Power line operating system

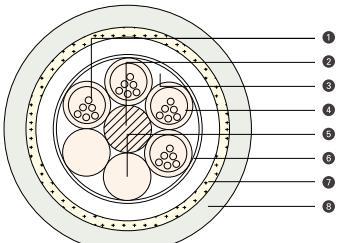
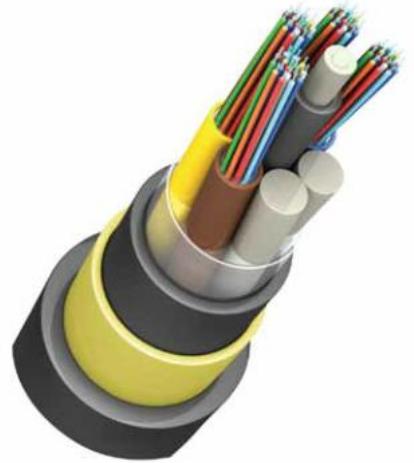
**Cable Specification**

No. of fibers Per tube	No. of fibers	Outer dia.(mm)	Cable wt.(kg/km)
12	2~30	15	160
	36~72	16	180
	74~96	17.5	230
	98~120	19.2	275
	122~144	21	330

**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification	
Allowable tensile strength	kgf	200~800	
Crush resistance	kgf/cm	20	
Minimum bending diameter	Dynamic	mm	20 times of cable diameter
	Static		10 times of cable diameter
Operating temperature range	°C	-40~+70	
Delivery length	km	1~6	

## Loose Tube Cable for Aerial(ADSS Type)\_Type. II



① Optical fiber : Single mode optical fiber(SMF), multi mode optical fiber(MMF),  
 non-zero dispersion shifted optical fiber(NZ-DSF)  
 ② Central strength member : Galvanized steel wire or fiber reinforced plastic(FRP) – ADSS type : FRP  
 ③ Moisture barrier : Water blocking jelly filling compound of water blocking yarn  
 ④ Loose tube : Thermoplastic material(polybutylene terephthalate)  
 ⑤ Filler : Polyethylene string  
 ⑥ Wrapping tape : Non-hygroscopic plastic tape or water blocking tape  
 ⑦ Inner sheath : Black polyethylene  
 ⑧ Armored layer : Aramid yarn(Lashing aerial type : steel tape)  
 ⑨ Outer sheath : Black polyethylene

**Feature**

- Standard fiber count : 2~144 fibers
- Excellent mechanical and environmental performance
- Protection from lightning and electrical interference
- Dry or jelly filled type

**Application**

- Small diameter and light weight
- Subscriber network system
- Long haul communication system

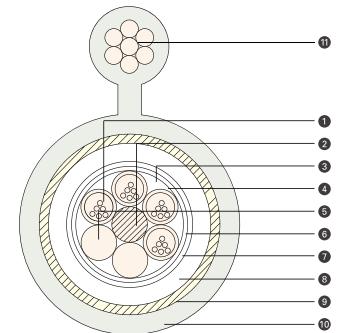
**Cable Specification**

No. of fibers Per tube	No. of fibers	Outer dia.(mm)	Cable wt.(kg/km)
12	2~30	11,7	100
	36~60	12,3	110
	62~72	12,5	115
	74~96	14	145
	98~120	15,6	180
	122~144	17,2	215

**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification
Allowable tensile strength	kgf	150~600
Crush resistance	kgf/cm	20
Minimum bending diameter	Dynamic	20 times of cable diameter
	Static	10 times of cable diameter
Operating temperature range	°C	-40~+70
Delivery length	km	1~6

## Loose Tube Cable for Aerial(Fig 8 Type)



① Optical fiber : Single mode optical fiber(SMF), multi mode optical fiber(MMF),  
 non-zero dispersion shifted optical fiber(NZ-DSF)  
 ② Central strength member : Galvanized steel wire or fiber reinforced plastic(FRP) – ADSS type : FRP  
 ③ Moisture barrier 1 : Water blocking jelly filling compound of water blocking yarn  
 ④ Loose tube : Thermoplastic material(polybutylene terephthalate)  
 ⑤ Filler : Polyethylene string  
 ⑥ Wrapping tape : Non-hygroscopic plastic tape or water blocking tape  
 ⑦ Moisture barrier 2 : Laminated aluminum tape  
 ⑧ Inner sheath : Black polyethylene  
 ⑨ Armored layer : Copolymer coated steel tape  
 ⑩ Outer sheath : Black polyethylene  
 \*Suspension wire : Galvanized steel wire(7/2,0, 7/1,6, 7/1,2, 7/1,0mm steel wire)

**Feature**

- Standard fiber count : 2~144 fibers
- Excellent mechanical and environmental performance
- Dry or jelly filled type

**Application**

- Local area network(LAN)
- Subscriber network system
- Long haul communication system

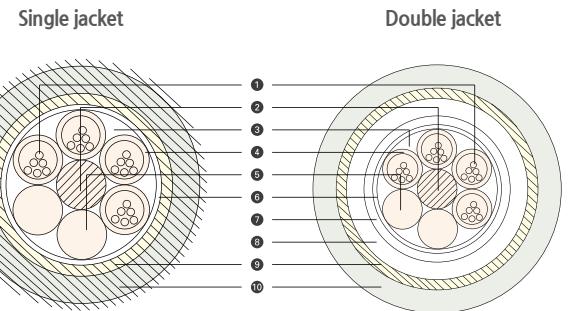
**Cable Specification**

No. of fibers Per tube	No. of fibers	Outer dia.(mm)	Cable wt.(kg/km)
12	2~36	14,6 / 25,6	418
	48~72	15,2 / 26,2	433
	74~96	16,6 / 27,6	467
	98~120	18,2 / 29,2	511
	122~144	19,8 / 30,8	560

**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification
Allowable tensile strength	kgf	500~1500
Crush resistance	kgf/cm	30
Minimum bending diameter	Dynamic	20 times of cable diameter
	Static	10 times of cable diameter
Operating temperature range	°C	-40~+70
Delivery length	km	1~4

## Loose Tube Cable for CATV Network



- ① Optical fiber : Single mode optical fiber(SMF), multi mode optical fiber(MMF), non-zero dispersion shifted optical fiber(NZ-DSF)
- ② Central strength member : Fiber reinforced plastic(FRP)
- ③ Moisture barrier 1 : Water blocking jelly filling compound of water blocking yarn
- ④ Loose tube : Thermoplastic material(polybutylene terephthalate)
- ⑤ Filler : Polyethylene string
- ⑥ Wrapping tape : Non-hygroscopic plastic tape or water blocking tape
- ⑦ Moisture barrier 2 : Laminated aluminum tape(optional)
- ⑧ Inner sheath : Black polyethylene
- ⑨ Armored layer : Copolymer coated steel tape or tin coated steel tape
- ⑩ Outer sheath : Black polyethylene

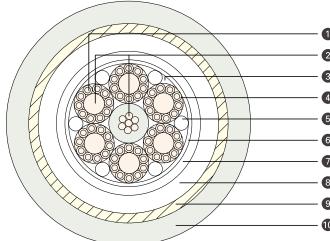
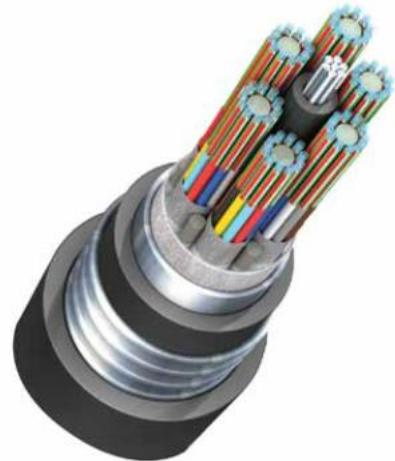
**Feature**

- Standard fiber count : 2~288 fibers
- Excellent optical performance
- Excellent mechanical and environmental performance
- High tensile strength design
- Anti-ratent treatment
- Dry or jelly filled type

**Application**

- CATV system network
- Local area network(LAN)
- Subscriber network system
- Long haul communication system

## High-Count Loose Tube Cable



- ① Optical fiber : Single mode optical fiber(SMF), multi mode optical fiber(MMF), non-zero dispersion shifted optical fiber(NZ-DSF)
- ② Central strength member 1 : Galvanized steel wire or fiber reinforced plastic(FRP)
- ③ Filling compound : Water blocking jelly filling compound
- ④ Loose tube : Thermoplastic material(polybutylene terephthalate)
- ⑤ Filler : Polyethylene string
- ⑥ Wrapping tape : Non-hygroscopic plastic tape or water blocking tape
- ⑦ Moisture barrier : Laminated aluminum tape
- ⑧ Inner sheath : Black polyethylene
- ⑨ Armored layer : A corrugated steel tape
- ⑩ Outer sheath : Black polyethylene

**Feature**

- High density fiber counts for loose tube core up to 600 fibers
- Excellent optical performance
- Excellent mechanical and environmental performance

**Application**

- Local area network(LAN)
- Subscriber network system
- Long haul communication system

**Cable Specification**

No. of fibers Per tube	No. of fibers	Single jacket		Double jacket	
		Outer dia.(mm)	Cable wt.(kg/km)	Outer dia.(mm)	Cable wt.(kg/km)
12	2~36	11,9	150	13,9	205
	48~72	13,1	185	15,1	240
	74~96	14,6	230	16,6	295
	98~120	16,4	280	18,3	365
	122~144	18	360	20	420
	288	20,5	450	22,5	530

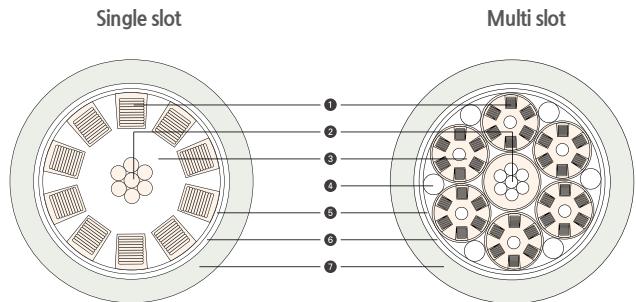
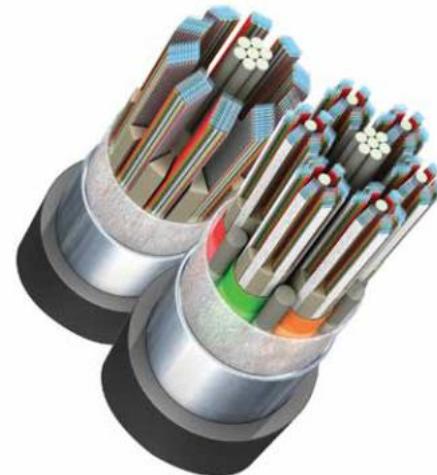
**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification	
		Single jacket	Double jacket
Allowable tensile strength	kgf	200~350	200~500
Crush resistance	kgf/cm	20	40
Minimum bending diameter	Dynamic	mm	20 times of cable diameter
	Static		10 times of cable diameter
Operating temperature range	°C		-40~+70
Delivery length	km		1~6

**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification
Allowable tensile strength	kgf	800
Crush resistance	kgf/cm	30
Minimum bending diameter	Dynamic	20 times of cable diameter
	Static	10 times of cable diameter
Operating temperature range	°C	-40~+70
Delivery length	km	1~2

## Optical Fiber Ribbon Slot Cable



- ① Ribbon : 2, 4, 8-fiber ribbon  
 ② Central strength member : Galvanized steel wire or fiber reinforced plastic(FRP)  
 ③ Slot : Polyethylene slot  
 ④ Filler : Polyethylene resin  
 ⑤ Wrapping tape : Water blocking tape  
 ⑥ Moisture barrier : Laminated aluminum tape  
 ⑦ Outer sheath : Black polyethylene

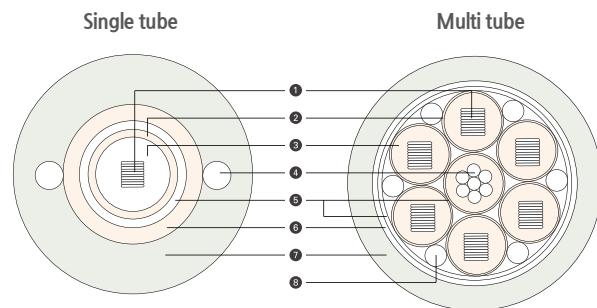
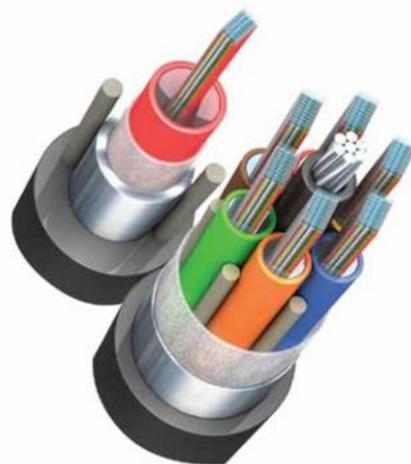
**Feature**

- Standard fiber count : 2~over 1152 fibers
- Excellent mechanical and environmental performance
- Large fiber count with small cable outer diameter
- Excellent optical performance
- Excellent branch and joint performance

**Application**

- Local area network(LAN)
- Subscriber network system
- Long haul communication system

## Optical Fiber Ribbon Tube Cable



- ① Ribbon : 4, 8, 12-fiber ribbon  
 ② Loose tube : Thermoplastic material(Polybutylene terephthalate)  
 ③ Filling compound : Water blocking jelly compound  
 ④ Central strength member : Galvanized steel wire or fiber reinforced plastic(FRP)  
 ⑤ Wrapping tape : Water blocking tape  
 ⑥ Moisture barrier : Laminated aluminum tape or steel tape(optional)  
 ⑦ Outer sheath : Black polyethylene  
 ⑧ Filler : Polyethylene string

**Feature**

- Standard fiber count : 144~over 864 fibers
- Excellent mechanical and environmental performance
- Large fiber count with small cable outer diameter
- Excellent optical performance
- Excellent branch and joint performance

**Application**

- Local area network(LAN)
- Subscriber network system
- Long haul communication system

**Cable Specification**

Characteristic	Unit	Duct	
		Single slot	Multi slot
No. of fiber	fiber	600	1152
Slot dia.	mm	20	11.8
No. of slot	ea	1	6
Cable dia.	mm	25	43
Cable weight	kg/km	580	1350

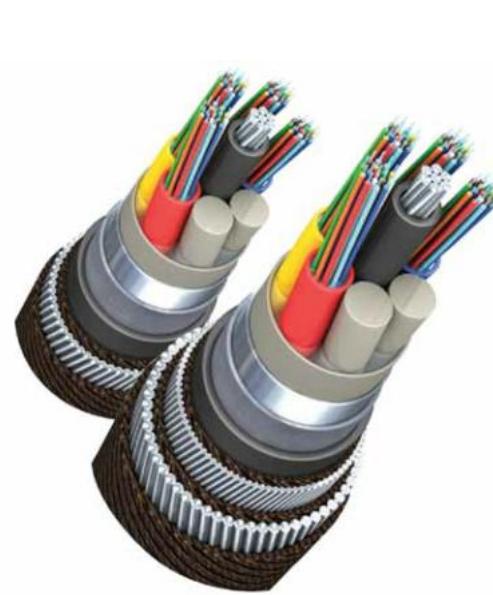
**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification	
		Single slot	Multi slot
Allowable tensile strength	kgf	800	1300
Crush resistance	kgf/cm		40
Minimum bending diameter	Dynamic mm	20 times of cable diameter	
	Static	10 times of cable diameter	
Operating temperature range	°C	-40~+70	

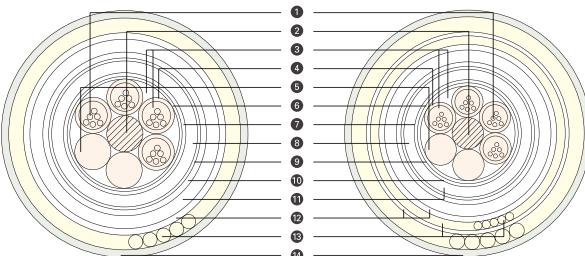
**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification	
		Single tube	Multi tube
Allowable tensile strength	kgf	270	600
Crush resistance	kgf/cm		40
Minimum bending diameter	Dynamic mm	20 times of cable diameter	
	Static	10 times of cable diameter	
Operating temperature range	°C	-40~+70	

# Submarine Optical Cable

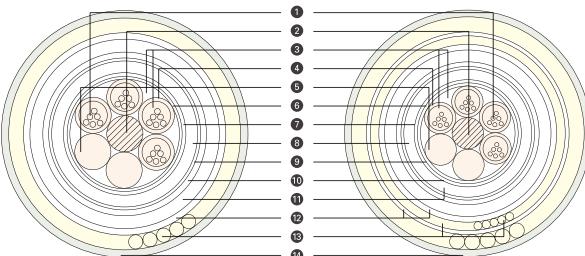


Single armoring type



- ① Optical fiber : Single mode optical fiber(SMF), multi mode optical fiber(MMF), non-zero dispersion shifted optical fiber(NZ-DSF)
- ② Central strength member : Galvanized steel wire or Fiber reinforced plastic(FRP)
- ③ Filling compound : Water blocking jelly filling compound
- ④ Loose tube : Thermoplastic material(polybutylene terephthalate)
- ⑤ Filler : Polyethylene string
- ⑥ Wrapping tape : Non-hygrosopic plastic tape or Water blocking tape
- ⑦ Moisture barrier : Laminated aluminum tape
- ⑧ Inner sheath : Black polyethylene
- ⑨ Wrapped paper : Non-woven tape
- ⑩ Lead sheath : Lead
- ⑪ Outer sheath : Black polyethylene
- ⑫ Bedding layer : Jute + Asphalt
- ⑬ Wire armoring : Galvanized steel wire
- ⑭ Serving layer : Jute + Asphalt + CaCO<sub>3</sub> layer

Double armoring type

**Feature**

- Standard fiber count : 2~72 fibers
- Optimized design for underwater application
- High tensile strength design
- Excellent mechanical and environmental performance

**Application**

- High speed long haul communication system in lakes and rivers

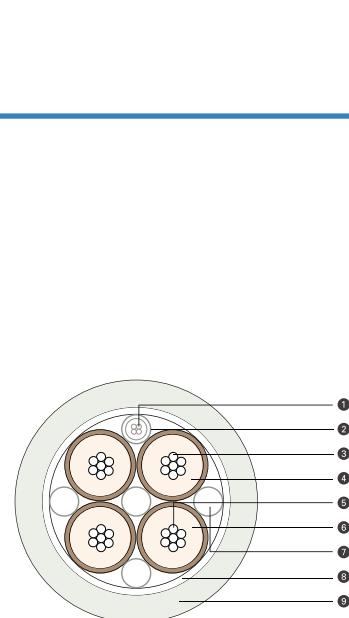
**Cable Specification**

Item	Unit	Duct	
		Single slot	Multi slot
Steel structure	–	Ø 2,6 x 34EA	First : Ø 2,6 x 33EA Second : Ø 4,5 x 26EA
Outer dia.	mm	36,5	49,7
Cable weight	ton/km	3,49	7,22

**Mechanical & Environmental Characteristic**

Characteristic	Unit	Specification	
		Single slot	Multi slot
Allowable tensile strength	kgf	3500	5000
Crush resistance	kgf/cm	500	1000
Minimum bending diameter	Dynamic	20 times of cable diameter	
	Static	10 times of cable diameter	
Operating temperature range	°C	-30~+70	
Delivery length	km	1~10	

# Hybrid Cable\_Type. I



- ① Optical fiber(4C or 8C)
- ② Loose Tube Cable
- ③ Power Wires(2Core)
- ④ Insulator
- ⑤ Ground Wires(2Core)
- ⑥ Insulator
- ⑦ Filler
- ⑧ Outer Sphere Tape
- ⑨ Fire Retardant PE

**Feature**

- Combination of optical fiber cable and power cable
- No need of separate installation saves the cost of deployment cost
- Environment-friendly Cable
- Excellent optical/electrical characteristic
- Stable mechanical/environmental characteristic
- Standard fiber account : 2~12Core

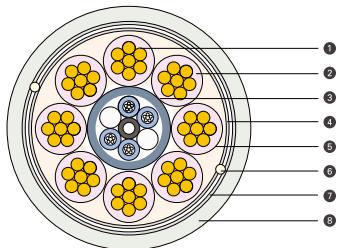
**Application**

- Mobile communication repeater
- Supply of Optical signal and power
- Subways, tunnels and in-building antenna systems

**Cable Specification**

Classification	No. of fibers	Power wire				Ground wire				Sheath thickness (mm)	Cable Dia. (Max.) (mm)
		Nominal cross section(mm <sup>2</sup> )	No. of wire/Wire Dia. (Nos./mm)	Insulation thickness(mm)	Number	Nominal cross section(mm <sup>2</sup> )	No. of wire/Wire Dia. (Nos./mm)	Insulation thickness(mm)	Number		
2,5SQMM	2~36C	2,5	7/0,67	0,7	2	2,5	7/0,67	0,7	2	1,8	17
4SQMM	2~36C	4	7/0,85	0,7	2	4	7/0,85	0,7	2	1,8	17
6SQMM	2~36C	6	7/1,04	0,7	2	6	7/1,04	0,7	2	1,8	17
10SQMM	2~36C	10	7/1,35	0,7	2	10	7/1,35	0,7	2	1,8	18
16SQMM	2~36C	16	Compact-round	0,7	2	16	Compact-round	0,7	2	1,8	19,5
25SQMM	2~36C	25	Compact-round	0,9	2	25	Compact-round	0,9	2	1,8	21,5
35SQMM	2~36C	35	Compact-round	0,9	2	35	Compact-round	0,9	2	1,8	24
50SQMM	2~36C	50	Compact-round	1	2	50	Compact-round	1	2	1,8	27
2,5SQMM	2~24C	2,5	7/0,67	0,7	2	2,5	7/0,67	0,7	2	1,8	17
4SQMM	2~24C	4	7/0,85	0,7	2	4	7/0,85	0,7	2	1,8	17
6SQMM	2~24C	6	7/1,04	0,7	2	6	7/1,04	0,7	2	1,8	17
10SQMM	2~24C	10	7/1,35	0,7	2	10	7/1,35	0,7	2	1,8	18
16SQMM	2~24C	16	Compact-round	0,7	2	16	Compact-round	0,7	2	1,8	19,5
25SQMM	2~24C	25	Compact-round	0,9	2	25	Compact-round	0,9	2	1,8	21,5
35SQMM	2~24C	35	Compact-round	0,9	2	35	Compact-round	0,9	2	1,8	24
50SQMM	2~24C	50	Compact-round	1	2	50	Compact-round	1	2	1,8	27

## Hybrid Cable\_Type. II



① Conductor  
② Insulator  
③ Loose Tube Cable  
④ Aluminum Tape  
⑤ Fiber  
⑥ Rip Code  
⑦ Wrapping Tape  
⑧ Sheath

### Feature

- Combination of optical fiber cable and power cable
- Supply of power and optical signal to the four repeater in one cable
- No need of separate installation saves the cost of deployment cost
- Environment-friendly Cable
- Excellent optical/electrical characteristic
- Stable mechanical/environmental characteristic
- Standard fiber account : 4~24Core

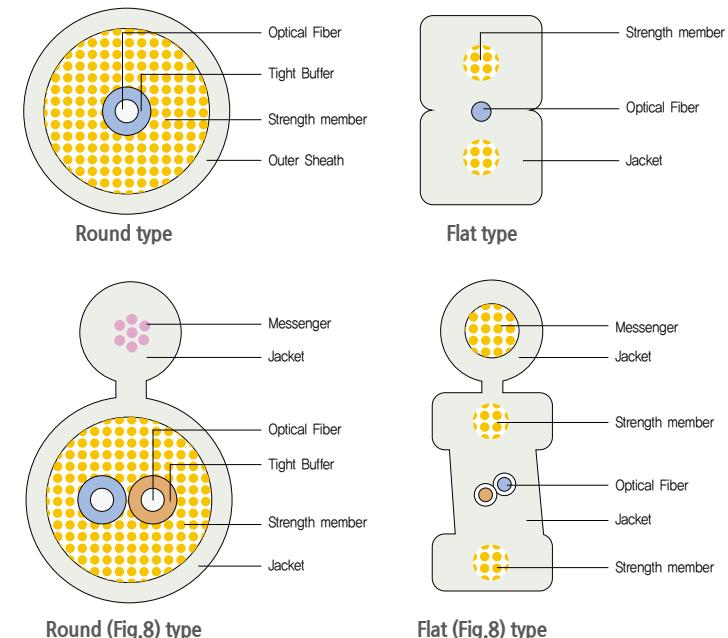
### Application

- RRH(Remote Radio Head) & DU Connection
- Supply of Optical signal and power
- Fiber to the antenna(FTTA)

### Cable Specification

Classification	Power wire		Cable Dia, (Nom. mm)	Weight (nom. kg/km)
	Condutor size	No. of unit		
4~24Core	6 AWG	8	29	1,320
	8 AWG	8	35	1,950

## Drop Cable



### Feature

- Small diameter, lightweight
- Easy handling and installation and maintenance
- Low Smoke, Zero-Halogen(LSZH) jacket for environment
- Bending intensive performance
- Robust and flexible
- Available FAC and pre-connectORIZED
- High durability and reliability
- ITU-T G.657A&B

### Application

- Designed for inside buildings and in certain indoor/outdoor

### Cable Specification

Classification	Round		Fig.8		Flat		Flat-Fig.8	
	1C	2C	1C	2C	1C	2C	1C	2C
Cable Diameter(mm)	3	5	5,0x2,9		1,9x3,5		2,0x4,4	
Cable Weight(kg/km)	8	25	11		10		24	
Tensile Load(N)	Short Term	500	600	1000	150	660		
	Long Term	250	300	500	80	300		

### Mechanical & Environmental Characteristic

Classification	Specification		Classification	Specification	
	Min. Bending Radius (mm)	Loaded	Outer Diameter x 20	Short Term	-40° C ~ +70° C
Installed		Outer Diameter x 10	Temperature (°C)	Long Term	-40° C ~ +70° C

### Option

Buffer Dia (um)	Yarn	Wire	Sheath	Fiber
600	Aramid	FRP	PVC	SM
900	Glass	Steel	LSZH	MM

## Simplex & Duplex ZIP Cable

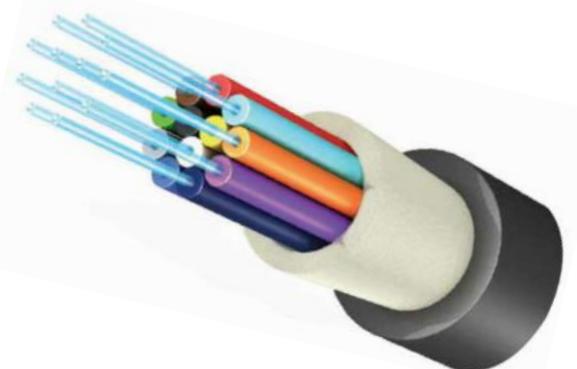


- 600um and 900um Tight Buffers available
- Easy strip and fast installation
- Flame Retardant LSZH sheath
- Compact and customized dimension
- Available FAC and pre-connectorized.
- High durability and reliability
- ITU-T G.657A / B

## Cable Specification

Item	Simplex				Duplex			
	600um	900um		600um	900um		3,0x5,9	
Cable Diameter (mm)	1,6	2	2,4	3	1,6x3,7	2,0x4,1	2,4x4,9	3,0x5,9
Cable Weight (kg/km)	2,4	3,6	5,3	8,6	4,8	7,2	10,6	16,2
Tensile Load (N)	Short Term	80	180	220	320	160	360	440
	Long Term	40	90	100	160	80	160	200
								320

## Distribution Cable

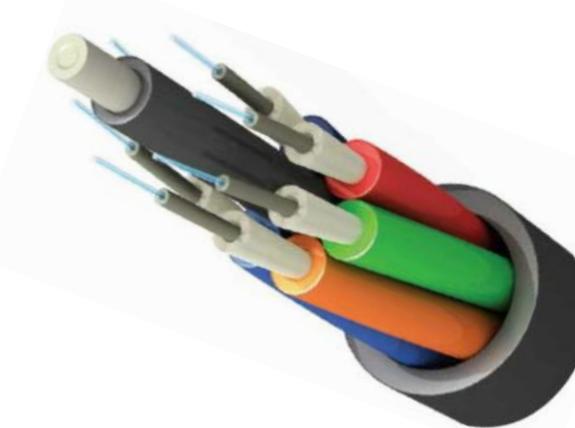


- 600um and 900um Tight Buffers available
- Easy strip and fast installation
- Flame Retardant LSZH sheath
- Compact and customized dimension
- Robust and high strength cable
- Fiber counts from 2 to 48C
- ITU-T G.657A / B

## Cable Specification

Item	Single Unit						6 Fiber Subunits		
	2C	4C	6C	8C	12C	16C	24C	36C	48C
Cable Diameter (mm)	4,3	4,7	5,5	6,1	6,5	9	12,8	15,5	17
Cable Weight (kg/km)	18	22	28	34	41	72	146	220	280
Tensile Load (N)	Short Term	450	450	450	600	600	1000	1400	1600
	Long Term	250	250	250	300	300	500	800	900
									1000

## Breakout Cable



- Individually ruggedised tight buffered fiber units
- Easy strip and fast installation
- Flame Retardant LSZH sheath
- Compact and customized dimension
- Available FAC and pre-connectorized.
- High durability and reliability
- Fiber counts from 2 to 24C
- ITU-T G.657A / B

## Cable Specification

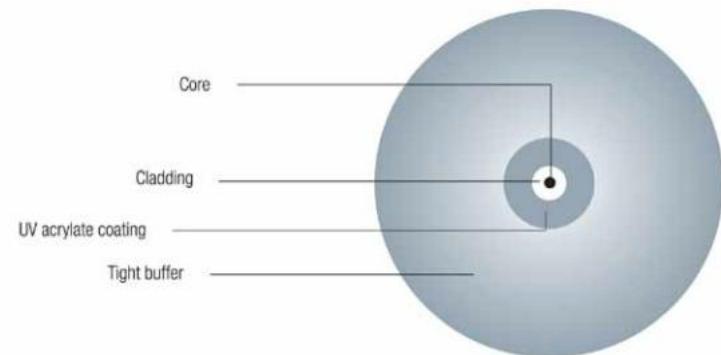
Item	Tight buffer 900um, Sub-unit Diameter 2.0mm						
	2C	4C	6C	8C	12C	16C	24C
Cable Diameter (mm)	4,3	7,2	8,2	10	12	13	16
Cable Weight (kg/km)	18	50	72	95	150	170	190
Tensile Load (N)	Short Term	450	700	900	1500	1500	1500
	Long Term	250	400	600	700	900	800
							1000

## Bending &amp; Temperature Characteristic

Classification	Specification		Classification	Specification	
	Min. Bending Radius (mm)	Outer Diameter x 20		Temperature (°C)	Short Term
Installed	Outer Diameter x 10			-40°C ~ +70°C	Long Term -20°C ~ +70°C

## Tight Buffered Cable

TAIHAN's tight buffered cable is used in inter-equipment, fiber optic transmission system requiring fiber optic cable. Tight buffered cable is color coded for easy identification allowing improved cable management in routing and termination in indoor cable applications. It is suitable for use in computer data links, terminal links, inter-frame, and internal connections.



### Feature

- 12 Color coding
- Available in single mode and multi-mode fibers
- Highly flexible and light weight for easy handling
- Easy stripping for quick splicing
- Various coating material available
- Diameter up to 900 $\mu\text{m}$

### Application

- Easy identification for improved cable management in routing and termination
- Non-conductive and Flame-retardant design
- Inter-equipment connections that are indoors or in controlled environments
- Computer data links, terminal links, inter-frame, internal connections

### Performance Specification

Characteristic	Fiber types	Max. attenuation (dB/km)	Typical attenuation (dB/km)
Cabled Attenuation	SMF(9/125) 1310nm/1550nm	0.4/0.25	0.35/0.20
	MMF(50/125) 850nm/1300nm	3.0/1.0	2.5/0.5
	MMF(62.5/125) 850nm/1300nm	3.0/1.0	2.7/0.6

### Ordering information

1. Select Fiber Type	9/125 SMF(single mode fiber) 50/125 MMF(multi mode fiber) 62.5/125(multi mode fiber)
2. Select Buffer Materials	UV-acrylate UV-silicon
3. Select Inner Jacket Materials	500 $\mu\text{m}$ Buffer diameter 900 $\mu\text{m}$ Buffer diameter

## Transparent Flex Cable(Nylon)



### Feature

- 900 $\mu\text{m}$  round type tight buffered cable
- ANYWAVE FLEX B3(G.657.B3) : 5mm bend radius
- Transparent color
- Resilient & hard buffer material
- Engineering plastic sheath
- Flame retardant



### Application

- Computer data links, terminal links, inter-frame, internal connections
- Indoor, Micro Cable pathway
- Bring FTTH to existing living units

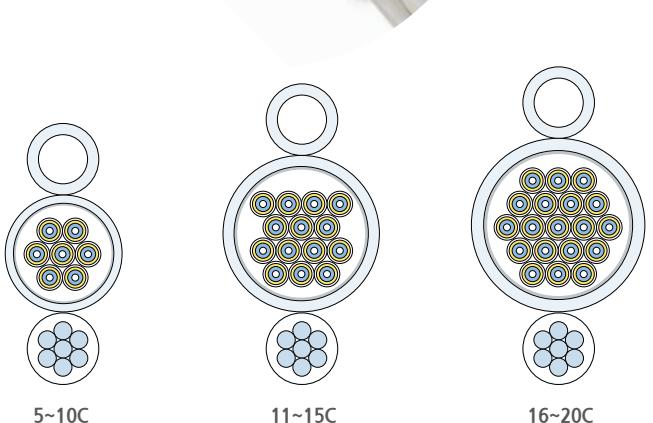
## Optical Sensing Cable



### Feature

- Distributed temperature system of high voltage cable
- Pipe line leakage detection
- Acoustic sensing cable

## Branch Cable(Pre-assemble Branch)



- Pre-assemble branch and fast installation
- UV resistant and LSZH outer sheath
- Various colors of the outer sheath available
- Compact and flexible branch unit
- Available FAC and pre-connectorized.
- High durability and reliability
- Fiber counts from 2 to 25C
- ITU-T G.657A / B

### Cable Specification

Item		Sub-unit : 2,0mm			
		5~10C	11~15C	16~20C	21~25C
Cable Diameter (mm)	Blank Tube		4,5		
	Breakout Cable	11,5	13	15,2	18,5
	Messenger Wire			5,2	
Cable Weight (kg/km)		220	280	360	490
Tensile Load (kgf)	Short Term		500		
	Long Term		300		

### Bending & Temperature Characteristic

Classification	Specification		Classification	Specification
Min. Bending Radius (mm)	Loaded	Outer Diameter x 20	Temperature (°C)	Short Term
	Installed	Outer Diameter x 10		Long Term

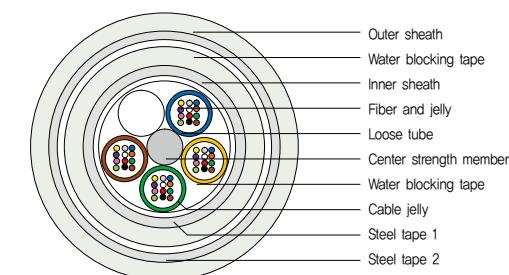
## DJDA With Flam-Retardant or Fire-Resistance



### Feature

- Up to 312 fibers
- Good water penetration, mechanical and environmental performance
- Retardant PE or LSZH sheath materials
- Mica tape is optional

### Structure



### Cable Specification

Classification	No. of Fiber	Nominal Dia. (mm)	Nominal Weight (kg.km)	Nominal Pulling Force (N)	Nominal Crush Resistance (N/10cm)
Fire-Retardant Cable	24	13,9	215	2,000	4,000
Flame-Resistance Cable	24	10,1	105	1,000	1,000
	24	10,1	100	1,500	1,000



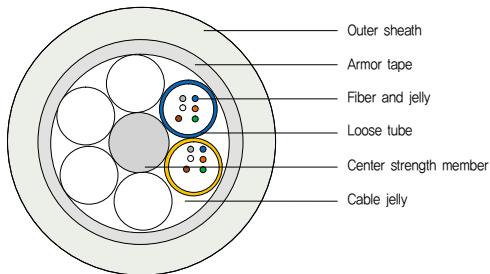
## Non-metallic Anti-Rodent or Anti-Termite



### Feature

- Up to 624 fibers(S-Z stranded) or Up to 144 fibers(Central tube structure)
- Metallic, non-metallic armored or unarmored
- Steel wire or FRP for center strength member
- Good water penetration, mechanical and environmental performance
- Glass yarns providing good anti-rodent performance
- Nylon sheath providing good anti-termite performance

### Structure



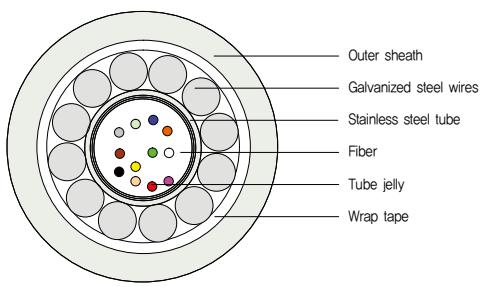
## Steel Armoring Cable



### Feature

- Up to 96 fibers
- Good water penetration, mechanical and environmental performance
- Good corrosion resisting, anti-rodent and anti-insect performance

### Structure



### Cable Specification

Classification	No. of Fiber	Nominal Dia. (mm)	Nominal Weight (kg.km)	Nominal Pulling Force (N)	Nominal Crush Resistance (N/10cm)
Anti-Rodent or Anti-Termite Additive Material Cable	24	9.5	80	1,000	1,500
Steel Tape Armored Anti-Rodent Cable	24	9.7	108	2,000	2,000
Flame-Resistance Cable	24	10.3	95	2,000	2,000
Flame-Resistance Cable	24	9.1	90	2,000	2,000
Nylon Sheath Anti-Termite Cable	24	10.2	90	1,000	2,000

### Cable Specification

Classification	No. of Fiber	Nominal Dia. (mm)	Nominal Weight (kg.km)	Nominal Pulling Force (N)	Nominal Crush Resistance (N/10cm)
Sewer Cable	24	7.8	175	3,000	6,000

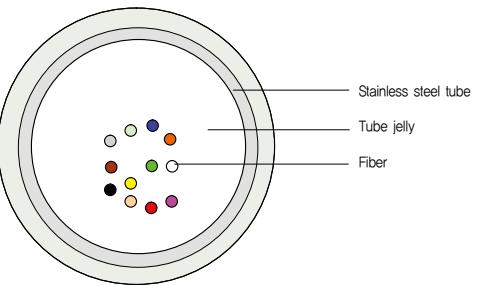
## Stainless Steel Tube Cable



### Feature

- Up to 48 fibers
- Good water penetration, mechanical and environmental performance
- Good crush resistance for concrete road embedding installation with low depth of digging

### Structure



## DTS(Detecting Temperature Sensing) Cable



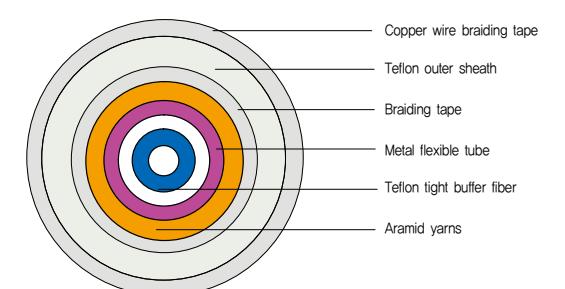
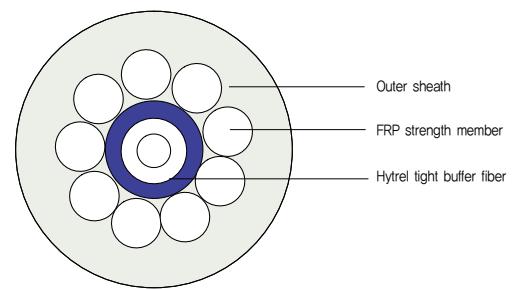
### Feature

- Detect the point of continuity; comprehensively detect the various points of the object
- Anti-high pressure and strong electromagnetic fields, radiation-resistant; can be used in a variety of hazardous working environments
- Simple to install, and can be used in various occasions for a long time
- Has a good performance of lateral compression resistance

### Application

- Used for stress sensing of dams, bridges and high buildings to prevent building collapse
- Used for the temperature and pressure measurement of oil wells and coal mines
- Used for the temperature monitoring and detection of power plants and substations
- Used for monitoring cables and transmission lines

### Structure



### Cable Specification

Classification	No. of Fiber	Nominal Dia. (mm)	Nominal Weight (kg.km)	Nominal Pulling Force (N)	Nominal Crush Resistance (N/10cm)
Sewer Cable	24	4.8	30	500	2,000

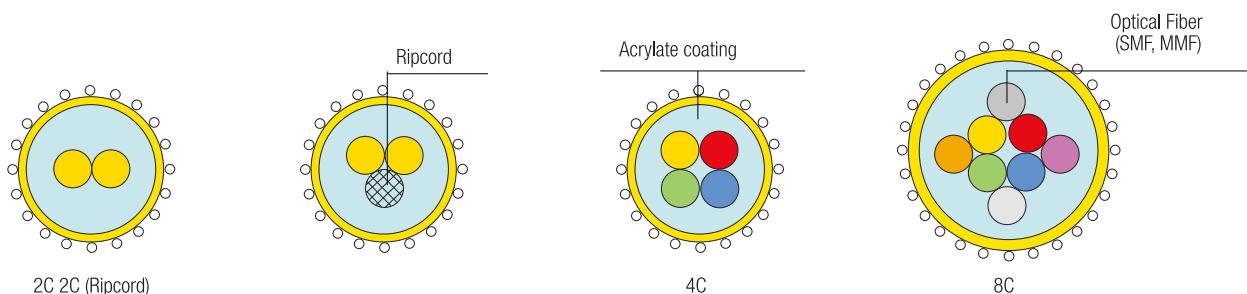


## Air Blown Fiber Unit

### Feature

- The TAIHAN units are contained in a soft inner acrylate layer for cushions
- An outer harder protects the fiber from damage and a low friction layer
- It assists in improving blowing distance which is typically in excess of 1000m in a single direction
- It is available in lengths up to 6000 meters

### Structure



Classification	2 Fiber	4 Fiber	8 Fiber	12 Fiber
Diameter	1.0mm	1.0mm	1.4mm	1.3mm
Weight	0.8g/m	0.8g/m	1.5g/m	1.55g/m
Fiber Colors	Blue, Orange	Blue, Orange, Green, Red	Blue, Orange, Green, Red, Violet, Grey, Yellow, Brown, Black, White, Pink, Turquoise	Blue, Orange, Green, Red, Violet, Grey, Yellow, Brown, Black, White, Pink, Turquoise

### Mechanical Specification

Classification	International Standard	Test Conditions	Performance
Condensation Test	IEC 60794-1-2-E11	40mm(2&4f), 60mm(8f) at 60°C for 1000 hrs	Pass, maximum fiber strain = 0.4% Residual fiber strain = 0.05%, note 1, note 2
Crush	IEC 60794-1-2-E3	100N for 60 seconds	Pass, note 1, note 2
Bend	IEC 60794-1-2-E11	40mm(2&4f), 60mm(8f)	Pass, note 1, note 2
Aged Bend	BT CW 1500 pt 4	40mm(2&4f), 60mm(8f) at 60°C for 1000 hrs	Pass, note 1

### Environmental Specification

Classification	International Standard	Test Conditions	Performance
Temperature	IEC 60794-1-2-F1	-10°C to + 60°C for 3 cycles	Pass, note 3, note 4
Cold Test	BS EN 60068-2-1	-20°C for 96 hours	Pass, note 3, note 4
Condensation Test	IEC 60068-2-38	-10°C to + 65°C at 93% RH for 24 hrs X 10	Pass, note 3, note 4
Water Immersion	BT CW 1500 pt 4	20°C ± 5°C for 2000 hours	Pass, note 3, note 4
Fiber Breakout Form Unit	BT CW 1500 pt 4	0°C, 20°C, 40°C, length 2m	Under 3 minutes(2&4f) Under 5 minutes(8f)

- Note 1, no significant damage / Note 2, no change in attenuation after test
- Note 3, pass for singlemode ±0,07 dB/km at 1310 nm and 1550 nm
- Note 4, Pass for multimode ±0,25 dB/km at 850 nm and 1300 nm

### Transmission Performance

Classification	Wavelength (nm)	SMF	Low Water Peak (Magnilight G.652.D)	MM 62,5/125	MM 50/125	OM3	OM4
Maximum Attenuation (dB/km)	850	—	—	3,5	2,6(2f-3,2)	2,6(2f-3,2)	2,6(2f-3,2)
	1300/1310	0,38	0,38	1,0	0,8(2f-1,2) 48,8	0,8(2f-1,2) 45,7	0,8(2f-1,2) 42,7
	1383	—	0,35	—	—	—	—
	1550	0,26	0,26	—	—	—	—
Bandwidth (MHz.km)	850nm minimum modal	—	—	200	500	1500	3500
	850nm effective modal	—	—	—	—	2000	4700
	1300/1300nm	—	—	600	800	500	500

## Air Blown Cable



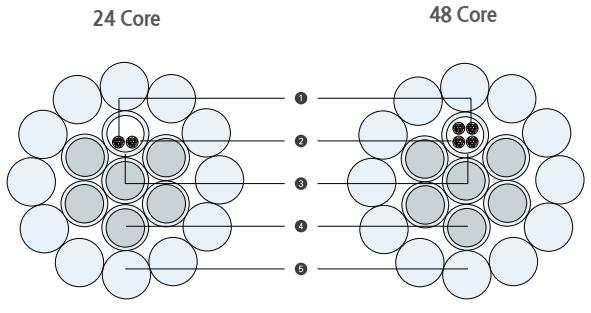
### Feature

- Small diameter and light weight
- SZ stranding for easy installation
- Rapid cost effective installation and removal
- Excellent low friction and blowing distance
- Excellent mechanical and environmental performance
- Up to 144 fibers and other configurations available

Classification	72 Fiber	96 Fiber	144 Fiber
Diameter	6,0mm	8,0mm	9,2mm
Weight	30kg/km	40kg/km	50kg/km
Min. Bending radius	≥ 120	≥ 140	≥ 160
Tensile Loading (N)	≤ 550	≤ 750	≤ 950
Application micro duct inner diameter (mm)	≥ 8	≥ 10	≥ 12



## Stainless Steel Loose Tube Type



- ① Optical : Single mode optical fiber(SMF), multi mode optical fiber(MMF)
- ② Filling compound : Jelly compound
- ③ Steel tube : Stainless steel tube
- ④ AS wire or Al alloy : Aluminum clad steel wire or Aluminum alloy wire
- ⑤ AS wire or Al alloy : Aluminum clad steel wire or Aluminum alloy wire

### Feature

- Standard 6 to 144 fiber count
- Excellent crush resistance performance
- Maintenance data information system
- Power line protection
- Good resistance to strong winds, lightning and short circuit current

### Application

- ITU-T G.650, 651, 652, 655
- IEEE 1138
- IEC 60793, 60794

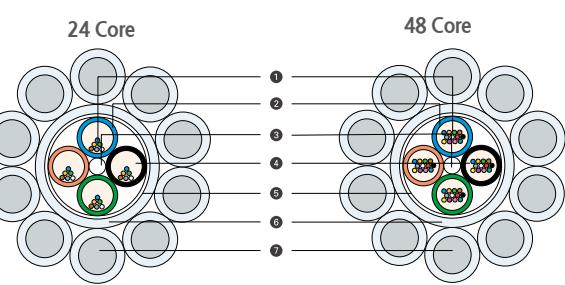
### Cable Specification

Item		Unit	Spcifications				
Sectional area	AS wire	mm <sup>2</sup>	24	44	54	63	52
	Al alloy		48	88	109	125	125
No. of fibers		Core	12	24	36	48	96
Construction	Central AS wire	No./mm	1/2.25	1/3.05	1/3.40	1/3.65	1/3.65
	Steel tube		1/2.20	1/3.00	1/3.35	1/3.60	1/3.60
	1st Layer AS wire		5/2.25	5/3.05	5/3.40	5/3.65	4/3.65
	2nd Layer Al alloy		12/2.25	12/3.05	12/3.40	12/3.65	12/3.65
Outer diameter		mm	11.3	15.3	17	18.3	18.3
Unit weight	kg/km		300	550	680	780	740
Min. tensile load	kgf		4200	7800	9700	11200	10000
Short circuit current capa.	kA's		39	130	200	270	245
Modulus of elasticity	kgf/mm <sup>2</sup>		9400	9400	9400	9400	9100
Linear expansion coefficient	°C		17.2x10 <sup>-6</sup>	17.2x10 <sup>-6</sup>	17.2x10 <sup>-6</sup>	17.2x10 <sup>-6</sup>	17.7x10 <sup>-6</sup>
Max. allowable temperature	°C		200	200	200	200	200

### Identification of Optical Fiber

No. of Fiber	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

## Non-metallic Loose Tube Type



- ① Optical : Single mode optical fiber(SMF), multi mode optical fiber(MMF), Non-zero dispersion shifted optical fiber(NZ-DSF)
- ② Loose tube : Thermoplastic material(polybutylene terephthalate)
- ③ Central member : Fiber reinforced plastic(FRP)
- ④ Filling compound : Jelly compound
- ⑤ Wrapping tape : Heat resistance tape
- ⑥ Al tube : Aluminum tube
- ⑦ AS wire or Al alloy : Aluminum clad steel wire or Al alloy wire

### Feature

- Standard 6 to 144 fiber count
- Excellent crush resistance performance
- Maintenance data information system
- Power line protection
- Good resistance to strong winds, lightning and short circuit current

### Application

- ITU-T G.650, 651, 652, 655
- IEEE 1138
- IEC 60793, 60794

### Cable Specification

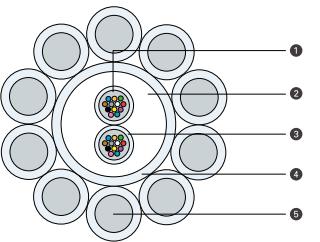
Item		Unit	Spcifications				
Sectional area		mm <sup>2</sup>	270	100	100	200	200
No. of fibers		Core	24	24	48	24	48
Construction		No./mm	1/8.7 OP+ 14/2.43 AS	1/8.7 OP+ 11/3.34 AS	1/9.7 OP+ 12/3.31 AS	1/8.7 OP+ 10/3.8 AS	1/9.7 OP+ 11/3.74 AS
Outer diameter		mm	13.6	15.4	16.4	16.3	17.2
Unit weight	kg/km		550	760	820	875	940
Min. tensile load	kgf		7880	11700	12500	13500	14500
Short circuit current capa.	kA's		66	105	125	130	155
Modulus of elasticity	kgf/mm <sup>2</sup>		12600	13400	13300	13700	13600
Linear expansion coefficient	/°C		14.7x10 <sup>-6</sup>	14.2x10 <sup>-6</sup>	14.3x10 <sup>-6</sup>	14.0x10 <sup>-6</sup>	14.1x10 <sup>-6</sup>
Max. allowable temperature	°C		200	200	200	200	200

### Identification of Optical Fiber

No. of Fiber	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua



## Central Stainless Steel Loose Tube Type



- ① Optical : Single mode optical fiber(SMF), multi mode optical fiber(MMF), Non-zero dispersion shifted optical fiber(NZ-DSF)
- ② Filling compound : Jelly compound
- ③ Color binder : Polyester yarns
- ④ Stainless steel tube : Stainless steel loose tube
- ⑤ AS wire or Al alloy : Aluminum clad steel wire or Al alloy wire

### Feature

- Standard 6 to 48 fiber count
- Excellent crush resistance performance
- Maintenance data information system
- Light weight and small diameter
- Power line protection
- Good resistance to strong winds, lightning and short circuit current

### Application

- ITU-T G.650, 651, 652, 655
- IEEE 1138
- IEC 60793, 60794

### Feature

- Standard 6 to 48 fiber count
- Excellent water resistance performance
- Maintenance data information system
- Light weight and small diameter
- Power line protection
- Good resistance to strong winds, lightning and short circuit current

### Application

- ITU-T G.650, 651, 652, 655
- IEEE 1138
- IEC 60793, 60794

### Cable Specification

Item	Unit	Spcifications		
Sectional area	mm <sup>2</sup>	58	68	75
No. of fibers	Core	24	36	48
Construction	No./mm	1/3,5 SSLT+ 6/3,5 AS	1/3,8 SSLT+ 6/3,8 AS	1/4,0 SSLT+ 6/4,0 AS
Outer diameter	mm	10,5	11,4	12
Unit weight	kg/km	410	480	530
Min. tensile load	kgf	7000	8000	9000
Short circuit current capa.	KA's	15	21	26
Modulus of elasticity	kgf/mm <sup>2</sup>	16500	16500	16500
Linear expansion coefficient	/°C	13x10 <sup>-6</sup>	13x10 <sup>-6</sup>	13x10 <sup>-6</sup>
Max. allowable temperature	°C	200	200	200

### Cable Specification

Item	Unit	Spcifications					
Sectional area	mm <sup>2</sup>	60	68	74	83	85	105
No. of fibers	Core	6~24	6~24	48	6~24	48	48
Construction	No./mm	1/5,5 Al tube+ 10/2,4 AS	1/5,5 Al tube+ 9/2,75 AS	1/6,2 Al tube+ 10/2,7 AS	1/5,5 Al tube+ 8/3,3 AS	1/6,2 Al tube+ 9/3,1 AS	1/6,2 Al tube+ 8/3,75 AS
Outer diameter	mm	10,3	11	11,6	12,1	12,4	13,7
Unit weight	kg/km	365	420	450	520	530	665
Min. tensile load	kgf	5500	6500	6950	8300	8250	10700
Short circuit current capa.	KA's	23	28	35	40	44	64
Modulus of elasticity	kgf/mm <sup>2</sup>	14200	14500	14400	14800	14600	15000
Linear expansion coefficient	/°C	13,8x10 <sup>-6</sup>	13,6x10 <sup>-6</sup>	13,7x10 <sup>-6</sup>	13,4x10 <sup>-6</sup>	13,5x10 <sup>-6</sup>	13,3x10 <sup>-6</sup>
Max. allowable temperature	°C	200	200	200	200	200	200

## Micro Duct Cable

### DI (Direct Installed Micro Duct)



- Installation environment : Duct or Sub Duct
- High density polyethylene
- Assist the air blown cable to blow long distance
- Excellent moisture-barrier and flexibility
- High rugged material without duct
- Excellent physical protection
- Fast and efficient branch
- Easy of installation
- Highly optimized for Fiber Cable

## Micro Duct Cable

### DB (Direct Buried Micro Duct)



- Installation environment : Buried
- High density polyethylene
- Assist the air blown cable to blow long distance
- Excellent moisture-barrier and flexibility
- High rugged material without duct
- Excellent physical protection
- Fast and efficient branch
- Easy of installation
- Highly optimized for Fiber Cable

Division	Outer Duct		Inner Duct		Outer dia.(mm)	Inner dia.(mm)
	Outer dia.(mm)	Thickness (mm)	Outer dia.(mm)	Inner dia.(mm)		
10/8mm	1way	13,4±0,5	1,5	10	8	
	2way	23,4x13,4±0,75	1,5	10	8	
	4way	27,9±1,0	1,5	10	8	
	7way	33,8±1,0	1,5	10	8	
12/10mm	1way	15,4±0,5	1,5	12	10	
	2way	27,4x15,4±0,8	1,5	12	10	
	4way	32,8±1,0	1,5	12	10	
	7way	39,8±1,0	1,5	12	10	

Division	Outer Duct(2nd Sheath)		Outer Duct(1st Sheath)		Inner Duct	
	Outer dia.(mm)	Thickness(mm)	Outer dia.(mm)	Thickness(mm)	Outer dia.(mm)	Inner dia.(mm)
10/8mm	1way	17,4±0,6	2,0	13,4±0,5	1,5	10
	2way	27,4x17,4±0,8	2,0	23,4x13,4±0,8	1,5	10
	4way	32,9±1,0	2,5	27,9±1,0	1,5	10
	7way	38,8±1,0	2,5	33,8±1,0	1,5	10
12/10mm	1way	19,5±0,6	2,0	15,4±0,5	1,5	12
	2way	31,4x19,5±0,8	2,0	15,4x27,4±0,8	1,5	12
	4way	36,5±1,0	2,0	32,8±0,8	1,5	12
	7way	43,5±1,2	2,0	39,8±1,0	1,5	12

Item		Identification						
1 way	Location	1						
	Color	White						
2 way	Location	1	2					
	Color	White	Red					
4 way	Location	1	2	3	4			
	Color	White	Red	Green	Blue			
7 way	Location	1	2	3	4	5	6	7
	Color	White	Red	Green	Blue	Brown	Purple	Yellow



Item		Identification						
1 way	Location	1						
	Color	White						
2 way	Location	1	2					
	Color	White	Red					
4 way	Location	1	2	3	4			
	Color	White	Red	Green	Blue			
7 way	Location	1	2	3	4	5	6	7
	Color	White	Red	Green	Blue	Brown	Purple	Yellow



## Micro Duct Cable

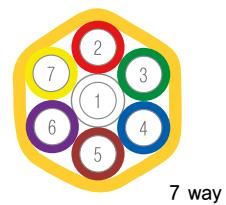
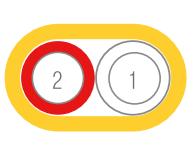
### TW (Thick Walled Micro Duct)



- Installation environment : Duct
- High density polyethylene
- Assist the air blown cable to blow long distance
- Excellent moisture-barrier and flexibility
- High rugged material without duct
- Excellent physical protection
- Fast and efficient branch
- Easy of installation
- Highly optimized for Fiber Cable

Division	Outer Duct		Inner Duct	
	Outer dia.(mm)	Thickness (mm)	Outer dia.(mm)	Inner dia.(mm)
14/10mm	2way	30.0x16.0	1	14
	6way	40.0x37.0	1	14
	7way	44.0x40.0	1	10

Item		Identification						
2 way	Location	1	2					
	Color	White	Red					
4 way	Location	1	2	3	4			
	Color	White	Red	Green	Blue			
7 way	Location	1	2	3	4	5	6	7
	Color	White	Red	Green	Blue	Brown	Purple	Yellow



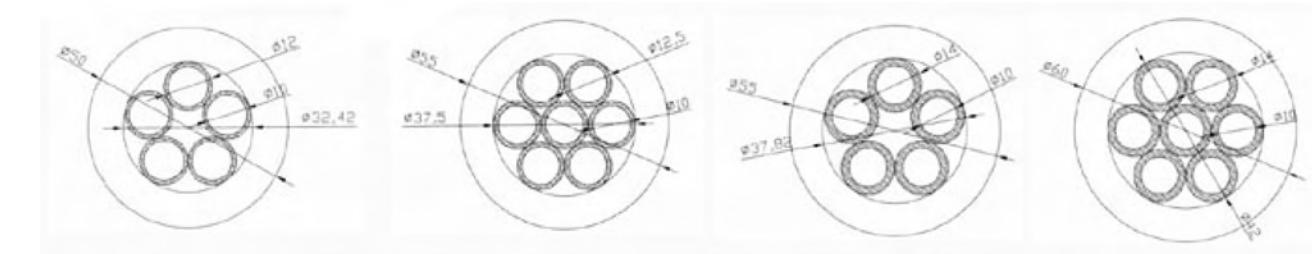
## Micro Duct Cable

### Micro COD

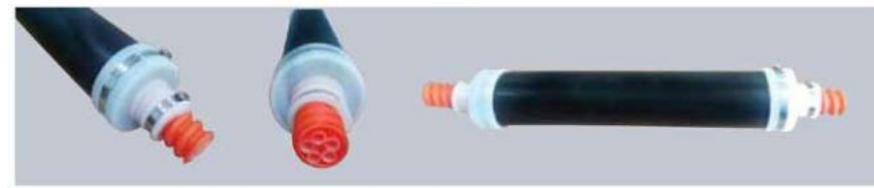


- Installation environment : Buried
- High density polyethylene
- Assist the air blown cable to blow long distance
- Excellent moisture-barrier and flexibility
- High rugged material without duct
- Fast and efficient branch
- Easy of installation
- Excellent OFC(Optical Fiber Cable) Protection
- Inner, Outer & Built-in Multiple Ducts
- 40% Cost Saving than PVC
- Suitable for Facility Construction

Division	Outer Duct		Inner Duct	
	Outer dia.(mm)	Thickness (mm)	Outer dia.(mm)	Inner dia.(mm)
14/10mm	2way	30.0x16.0	1	14
	6way	40.0x37.0	1	14
	7way	44.0x40.0	1	10



### Micro COD dedicated socket



- Simple one-touch type
- Easy connection and defect discovery (Transparency)
- Excellent durability(not air leakage)

※ Total Size : Ø122 X 1108  
※ Cylinder Size : Ø114 X 1000  
(Possibility of Length adjustment)