INNOBIZ ISO 9001 ISO 14001 ISO 45001

www.es-cable.com
vol.4

E S C A B L E I n c .

HIGH QUALITY TOTAL
COMMUNICATION SOLUTION

FIBER OPTIC CABLE

ES Cable provides high quality products and service that meet our customers needs based on our rich experience and technology.

ES CABLE Inc.

E S C A B L E I n c .

HIGH QUALITY TOTAL
COMMUNICATION SOLUTION

HEAD OFFICE / PLANT

Address 9, Cheomdansandan 4-gil, Hongbuk-eup,
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Head Office Fax +82-70-4009-9525

ES CABLE Inc.

www.es-cable.com

F I B E R O P T I C C A B L E

Company History

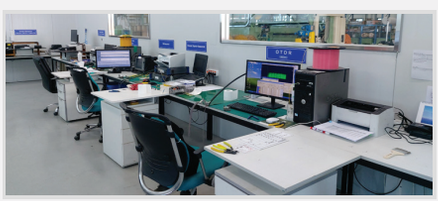
The below is the footprint of ES CABLE.

Coloring

S/C Line

S/Z Stranding Line

Jacketing Line



Specifications testing

Finished Cables

2025
- Changed Company Name (ES CABLE)
- Appointed as the first vendor of LGU+ (S.Korea Telecommunication Company)
- Supply of Indoor Fiber Optic Cables to Spain

2024
- Supply of Fiber Optic Cables to Korea Expressway Corporation
- Supply of Nylon Fiber Optic Cables to New Zealand
- Supply of Outdoor Fiber Optic Cables to Vietnam
- Supply of Outdoor Fiber Optic Cables to Mexico

2023
- Obtained ISO 45001 certification
- Obtained ISO 14001 : 2015 certification
- Supply Fiber optic cable to Korea National Railway
- Supply of Outdoor Fiber Optic Cables to U.S

2022
- Established New Factory & Moved Head Quarter in Hongseong

2021
- Authorized Fiber optic cable supplier to Kepco

2020
- Obtained Parts and Materials Technician Certificate

2018
- Nominated as Promising Small-Medium Enterprises for Export by 'Ministry of SMEs and Start-up
- Selected as an authorized SKT ribbon fiber optics cable supplier.

2017
- Award of the Chairman's Commendation from KIBO Technology Guarantee Fund

2016
- Appointed as the first vendor of KT (S.Korea Telecommunication Company)
- Certification of Youth-friendly 'Small Hidden Champion'
- Certification of Gyeong-gi ProvinceJob Recognition Excellent Company
- Completion of new head office construction in Suwon Industrial Complex
- Nominated as a Gyeong-gi Province Women Employment Excellent Company

2015
- Beginning of new enterprise for fiber optic cable (installation of production line)
- Launched ESCABLE brand
- Verification of greenhouse gas inventory (carbon management system ISO14064) (Korea Energy Corporation)

2014
- Selected as an Excellent Company to Work for by the Small and Medium Business Administration

2013
- Selected promising small & medium business by Gyeonggi-Do Provincial Government
- Submitted a new design for practical use to KIPO (Korean Intellectual Property Office)
- Submitted design patent of 'Hole kit' for communication cable distributor to KIPO (Korean Intellectual Property Office)

2012
- Selected as 'a venture business' by small & medium business administration.
- Selected as a Venture Company
- Participation in Gyeonggi Province Design Development Support _ Award from the Governor of Gyeonggi Province

2008
- Obtained 'annex research institute certification' by KOITA
- Obtained 'Innobiz certification' by small & medium business administration.

2006
- Obtained 'small & medium size business certification' by small & medium business administration
- Obtained ISO 9001:2000 certifications

2005
- Converted to corporation (ES-TECH international Inc.)

2002
- ESTECHNOLOGY was founded

ESCABLE

Company Introduction

Growing together with creative company culture.

As a leading manufacturer specializing in optical fiber cables, we are continuously enhancing our global presence through cutting-edge technology innovation and customer-tailored solutions.
In today's rapidly advancing digital age, the importance of optical fiber cables as the backbone of ultra-high-speed communication networks cannot be overstated.
At ES CABLE Inc., we are fully committed to staying ahead of these trends by providing the highest-quality fiber optic cables and leveraging forward-thinking technological expertise to grow alongside our valued clients.

Through continued investment in R&D and the adoption of smart manufacturing systems, we are focused on maximizing efficiency and product quality, while also prioritizing environmentally sustainable practices in our manufacturing processes.
By supporting critical infrastructures such as 5G networks, smart cities, and data centers, we are poised to lead the future of network environments.

Our ongoing collaboration with global partners strengthens our competitiveness in the international market, and we remain dedicated to delivering reliable quality and top-tier service that provide optimal value to our customers.

Moving forward, we will continue to drive technological innovation and pursue sustainable growth, aiming to become the global leader in the optical fiber cable industry.
We appreciate your continued support and interest in ES CABLE.

Thank you. **Hwang Byung-Sun, CEO** of ES CABLE Inc.

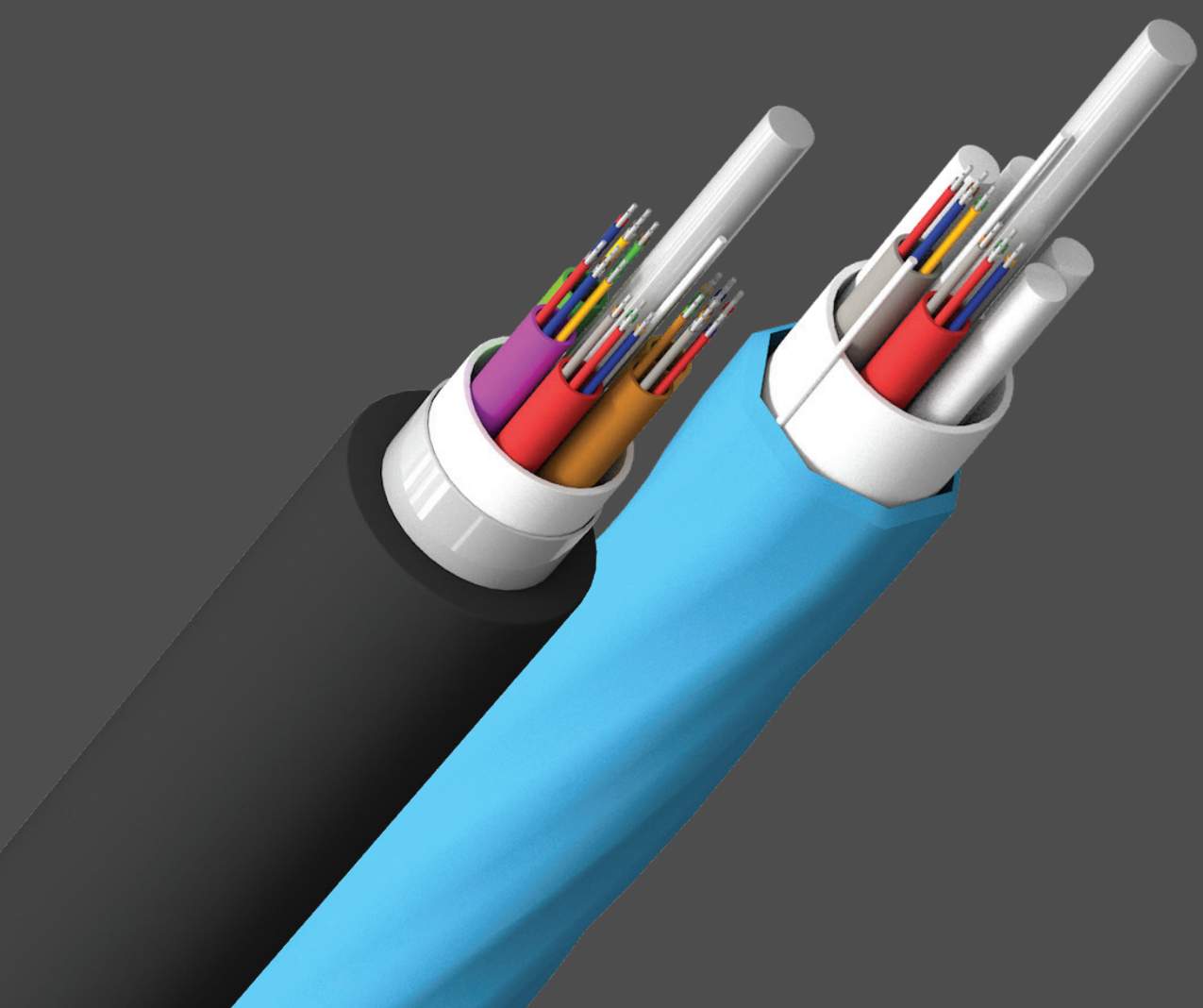
F I B E R O P T I C C A B L E

Fiber Optic Cable

ES-CABLE Inc.'s ESCABLE is an optical cable solution that we design, produce, and distribute ourselves.
Not only do we have the technology and experience accumulated over many years to meet the various needs and situations of our customers, but we are also recognized for our high quality by our customers around the world.

ESCABLE

E S C A B L E I n c .

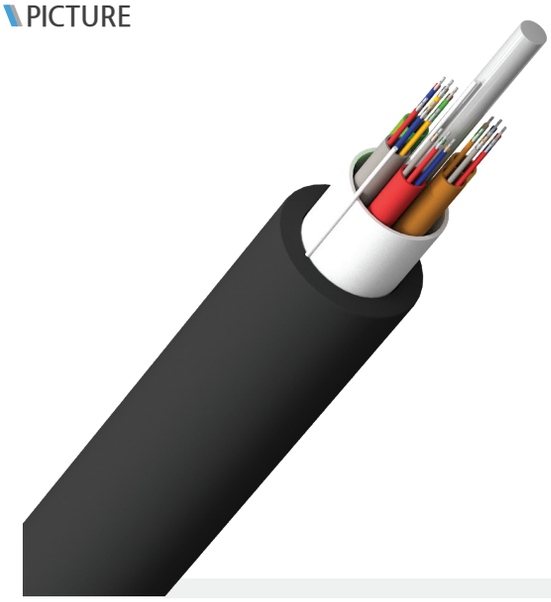


Fiber Optic Cable

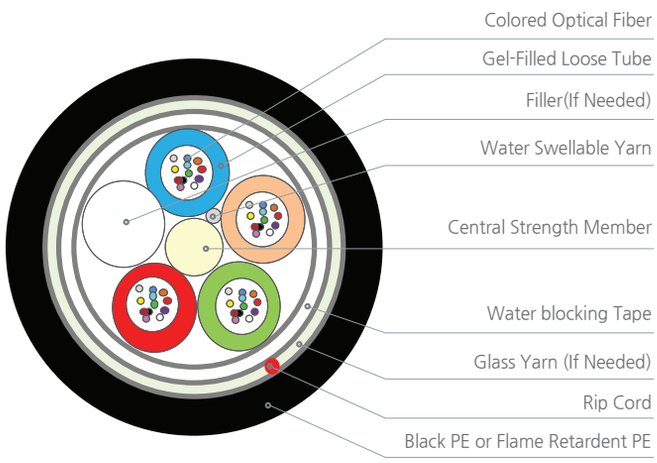
CONTENTS

LOOSE TUBE SINGLE JACKET MICRO OPTICAL CABLE

PICTURE



CABLE CROSS-SECTION



APPLICATION

- DUCT (Small and Microduct)
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK
- LAN

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 60C)
- AVAILABLE FOR METALLIC OR NON-METALLIC CENTRAL STRENGTH MEMBER
- EASY TO HANDLE BY DRY CABLE CORE
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

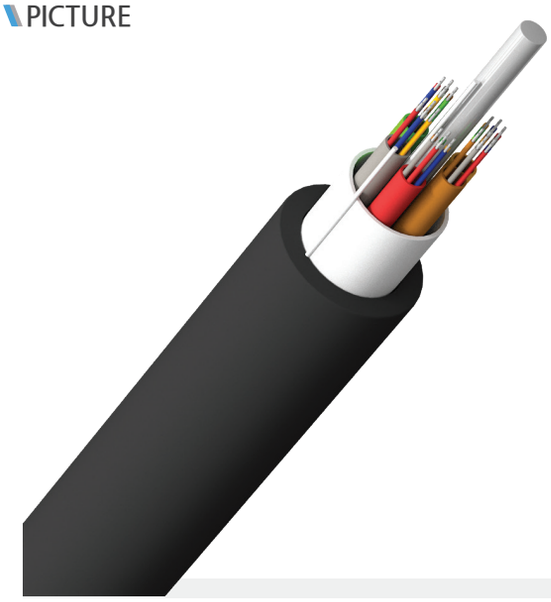
SPECIFICATION

Fiber Counts		up to 60
Fiber Counts/Tube		1~12
Outer Diameter(mm)		7.8
Weight(kg/km)		43
Max.Pulling Tension(kg)		65
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter
	Operation	10 times of Cable outer diameter
Temperature	Installation	-30℃ ~ +60℃
	Operation	-40℃ ~ +70℃

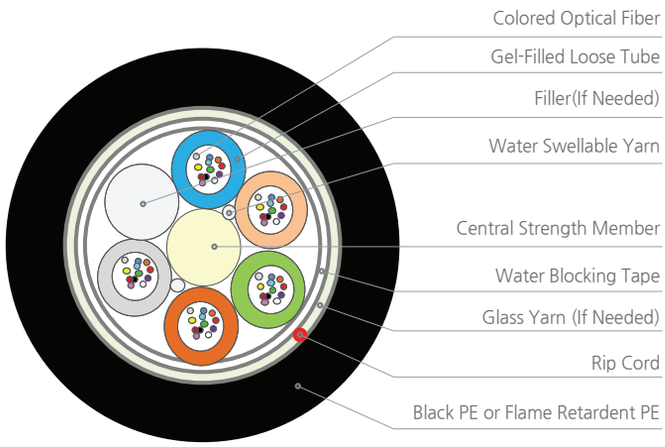
* The data on this table may be changed without any prior notice

LOOSE TUBE SINGLE JACKET OPTICAL CABLE

PICTURE



CABLE CROSS-SECTION



APPLICATION

- DUCT OR LASHED AERIAL
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK
- LAN

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288 C)
- AVAILABLE FOR METALLIC OR NON-METALLIC CENTRAL STRENGTH MEMBER
- EASY TO HANDLE BY DRY CABLE CORE
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

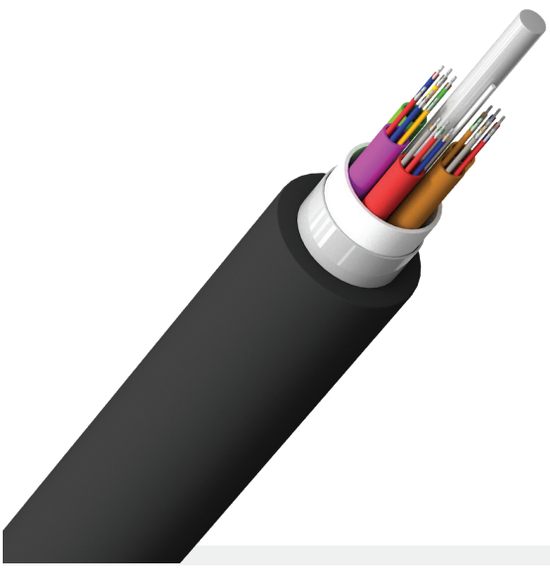
SPECIFICATION

Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Outer Diameter(mm)		9.0	10.9	12.2	13.5	16.3
Weight(kg/km)		65	95	120	145	210
Max.Pulling Tension(kg)		90	140	180	220	280
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

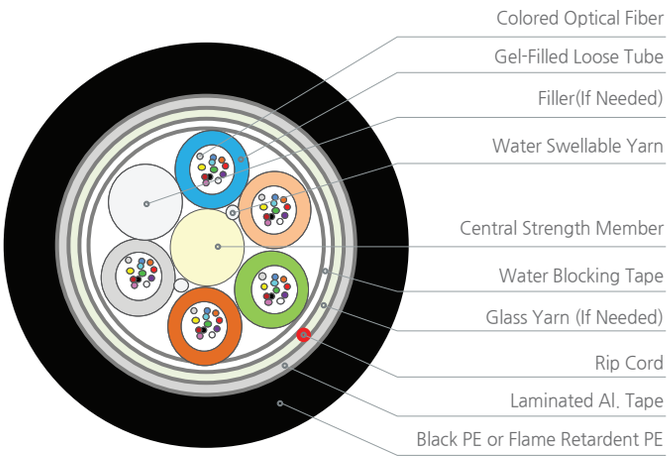
* The data on this table may be changed without any prior notice

LOOSE TUBE LAP SINGLE JACKET OPTICAL CABLE

PICTURE



CABLE CROSS-SECTION



APPLICATION

- DUCT OR LASHED AERIAL
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK
- UNDERGROUND DUCT FOR FLAME RETARDENT DEMAND

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- AVAILABLE FOR METALLIC OR NON-METALLIC CENTRAL STRENGTH MEMBER
- EASY TO HANDLE BY DRY CABLE CORE
- EXCELLENT MOISTURE BARRIOR PROPERTIES USING LAP TAPE
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

SPECIFICATION

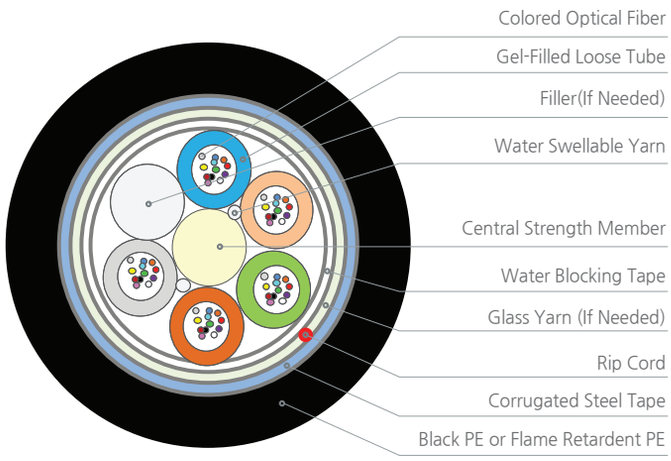
Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Outer Diameter(mm)		10.4	11.7	13.0	14.3	17.2
Weight(kg/km)		95	115	140	170	240
Max.Pulling Tension(kg)		140	160	170	210	290
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

* The data on this table may be changed without any prior notice

LOOSE TUBE STEEL ARMOR SINGLE JACKET OPTICAL CABLE

PICTURE

CABLE CROSS-SECTION



APPLICATION

- BURIED, DUCT AND LASHED AERIAL
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- AVAILABLE FOR METALLIC OR NON-METALLIC CENTRAL STRENGTH MEMBER
- EASY TO HANDLE BY DRY CABLE CORE
- EXCELLENT CRUSH RESISTANCE AND PROTECTION FROM RODENT ATTACKS
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

SPECIFICATION

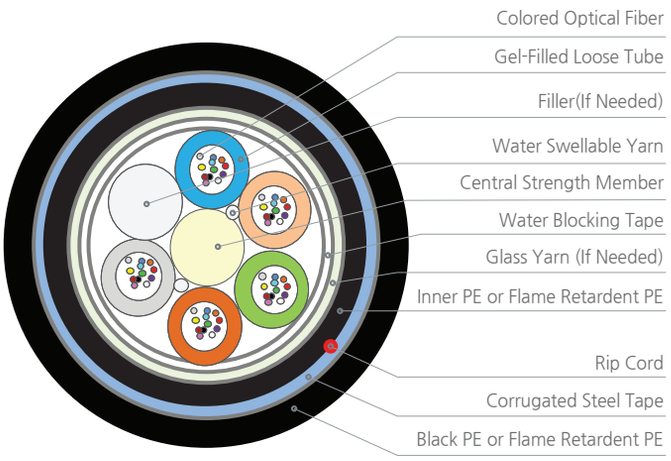
Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Outer Diameter(mm)		11.6	12.9	14.2	15.5	18.3
Weight(kg/km)		125	150	180	215	290
Max.Pulling Tension(kg)		170	175	200	250	290
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

* The data on this table may be changed without any prior notice

LOOSE TUBE STEEL ARMOR DOUBLE JACKET OPTICAL CABLE

PICTURE

CABLE CROSS-SECTION



APPLICATION

- BURIED IN HARSH ENVIRONMENTS
- DUCT AND LASHED AERIAL
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- AVAILABLE FOR METALLIC OR NON-METALLIC CENTRAL STRENGTH MEMBER
- EASY TO HANDLE BY DRY CABLE CORE
- ENHANCED COMPRESSIVE STRENGTH AND RODENT RESISTANCE
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

SPECIFICATION

Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Outer Diameter(mm)		13.7	14.9	16.2	17.7	20.3
Weight(kg/km)		170	200	230	270	360
Max.Pulling Tension(kg)		200	210	250	300	390
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

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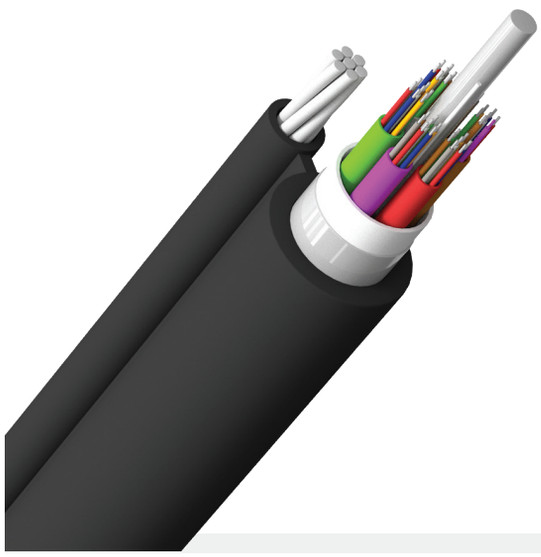
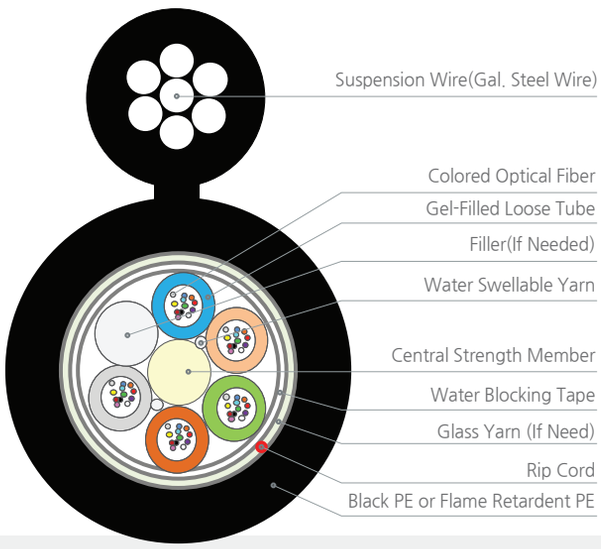
LOOSE TUBE FIGURE-8 SINGLE JACKET OPTICAL CABLE

PICTURE



CABLE CROSS-SECTION



APPLICATION

- AERIAL
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- SUITABLE FOR SELF SUPPORTING INSTALLATION BY COMBINED SUSPENSION WIRE
- EASY TO HANDLE BY DRY CABLE CORE
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

SPECIFICATION

Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Suspension Wire Diameter(mm)		3.6(1.2mm X 7C)	4.8(1.6mm X 7C)			
Cable Outer Diameter(mm)		9.6X18.2	10.8X20.6	12.1X21.9	13.4X23.2	16.0X26.0
Cable Weight(kg)		165	240	265	290	350
Max. Pulling Tension(kg)		550	1150			
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

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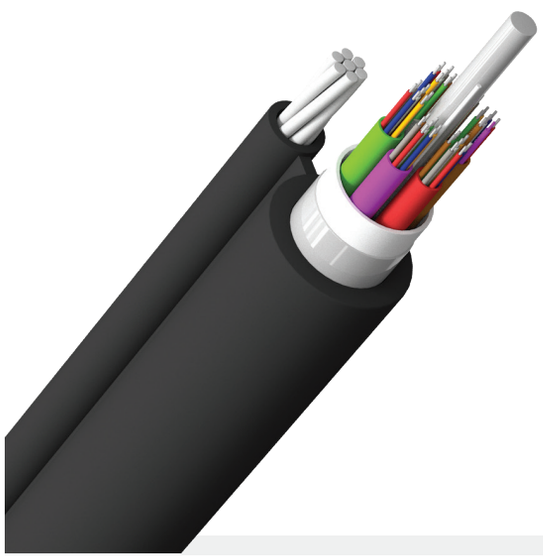
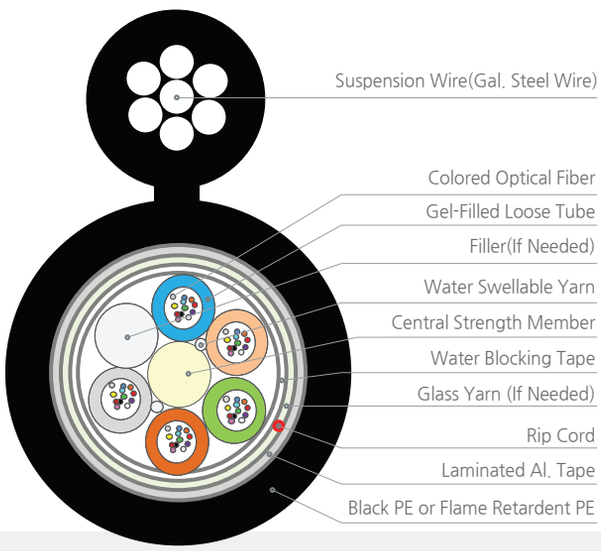
LOOSE TUBE FIGURE-8 LAP SINGLE JACKET OPTICAL CABLE

PICTURE



CABLE CROSS-SECTION



APPLICATION

- AERIAL
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- SUITABLE FOR SELF SUPPORTING INSTALLATION BY COMBINED SUSPENSION WIRE
- EASY TO HANDLE BY DRY CABLE CORE
- EXCELLENT MOISTURE BARRIOR PROPERTIES USING LAP TAPE
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

SPECIFICATION

Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Suspension Wire Diameter(mm)		3.6(1.2mm X 7C)	4.8(1.6mm X 7C)			
Cable Outer Diameter(mm)		10.5X19.1	11.7X21.5	13.0X22.8	14.5X24.5	17.1X27.3
Cable Weight(kg)		185	265	290	325	390
Max. Pulling Tension(kg)		550	1150			
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

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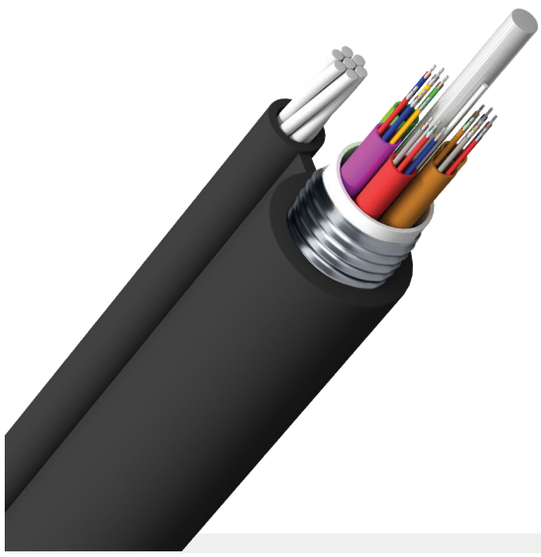
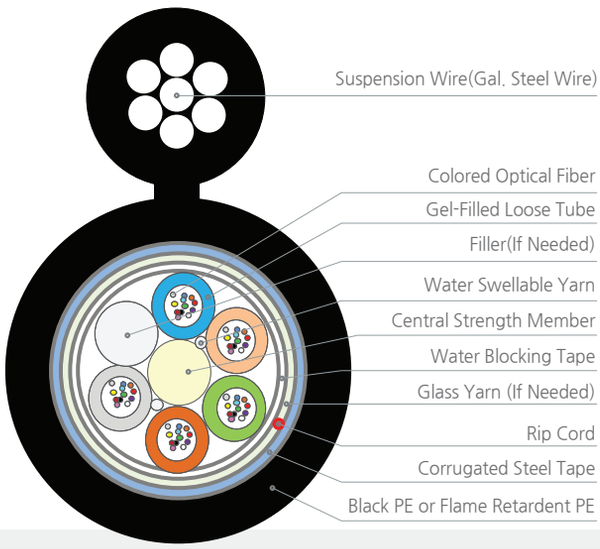
LOOSE TUBE FIGURE-8 STEEL ARMOR SINGLE JACKET OPTICAL CABLE

PICTURE



CABLE CROSS-SECTION



APPLICATION

- AERIAL
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- SUITABLE FOR SELF SUPPORTING INSTALLATION BY COMBINED SUSPENSION WIRE
- EASY TO HANDLE BY DRY CABLE CORE
- EXCELLENT CRUSH RESISTANCE AND PROTECTION FROM RODENT ATTACKS
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

SPECIFICATION

Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Suspension Wire Diameter(mm)		3.6(1.2mm X 7C)	4.8(1.6mm X 7C)			
Cable Outer Diameter(mm)		11.6X20.2	12.8X22.6	14.1X23.9	15.6X25.6	18.2X28.4
Cable Weight(kg)		215	295	325	365	440
Max. Pulling Tension(kg)		550	1150			
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

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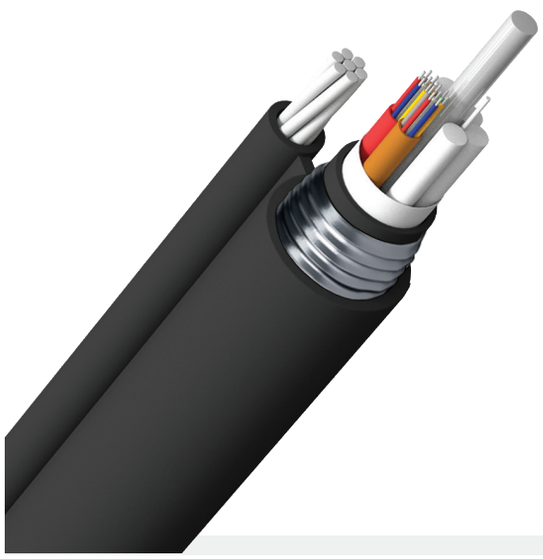
LOOSE TUBE FIGURE-8 STEEL ARMOR DOUBLE JACKET OPTICAL CABLE

PICTURE



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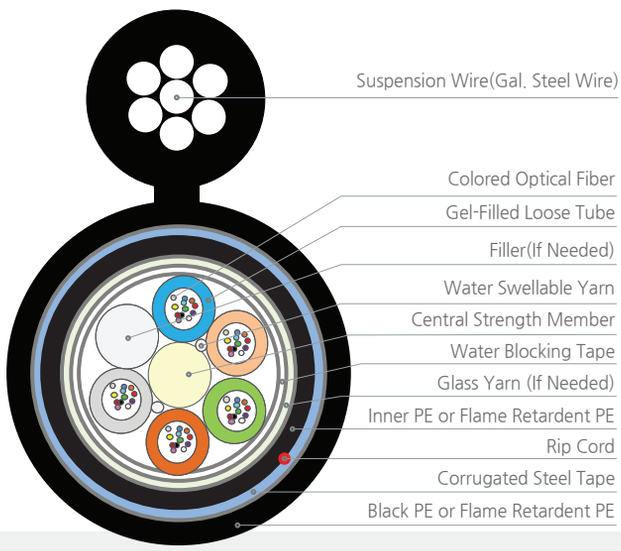

APPLICATION

- AERIAL
- LONG HAUL COMMUNICATION NETWORK
- SUBSCRIBER NETWORK

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- SUITABLE FOR SELF SUPPORTING INSTALLATION BY COMBINED SUSPENSION WIRE
- EASY TO HANDLE BY DRY CABLE CORE
- ENHANCED COMPRESSIVE STRENGTH AND RODENT RESISTANCE
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

SPECIFICATION

Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Suspension Wire Diameter(mm)		4.8(1.6mm X 7C)	5.4(1.8mm X 7C)			
Cable Outer Diameter(mm)		13.6X23.4	14.8X25.2	16.1X26.5	17.6X28.0	20.2X30.6
Cable Weight(kg)		315	375	410	450	530
Max. Pulling Tension(kg)		1150	1450			
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

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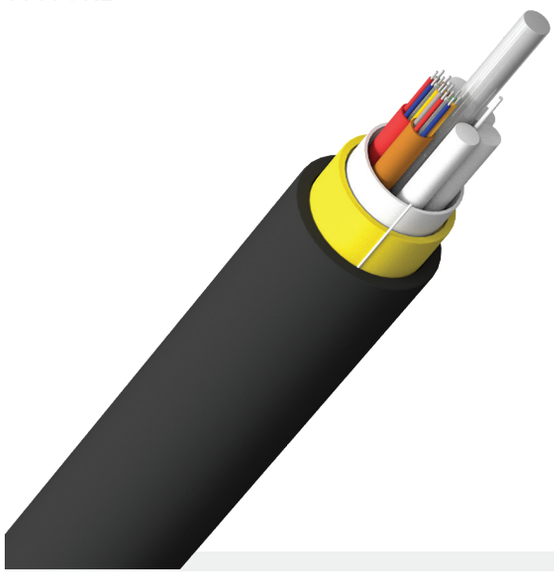
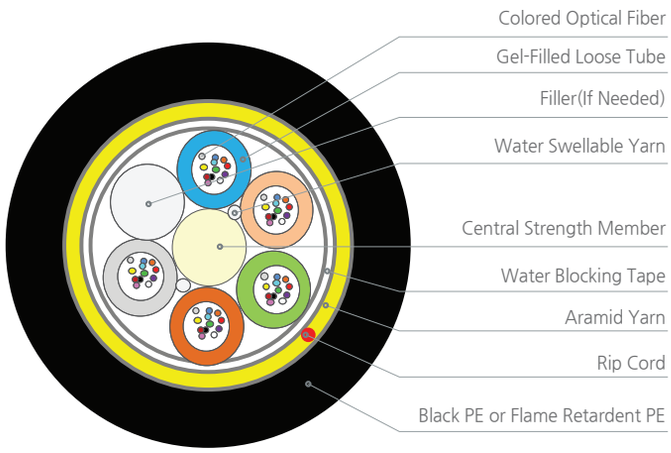
LOOSE TUBE ADSS SINGLE JACKET OPTICAL CABLE

PICTURE



CABLE CROSS-SECTION



APPLICATION

- AERIAL
- BACKBONE/DISTRIBUTION NETWORK
- FTTH DEPLOYMENTS

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- SUITABLE FOR SELF SUPPORTING INSTALLATION
- ENABLE FASTER DEPLOYMENT AND REDUCED INSTALLATION COST
- GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

SPECIFICATION

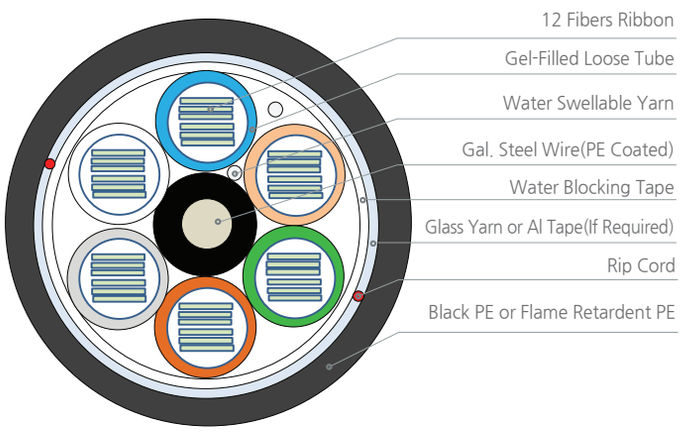
Fiber Counts		up to 72	96	120	144	288
Fiber Counts/Tube		12	12	12	12	12
Outer Diameter(mm)		9.7	11.2	12.5	13.8	16.2
Weight(kg/km)		75	100	130	155	200
Max.Pulling Tension(kg)		250	320	380	450	520
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

* The data on this table may be changed without any prior notice

RIBBON TUBE SINGLE JACKET OPTICAL CABLE

PICTURE

CABLE CROSS-SECTION



APPLICATION

- UNDERGROUND DUCT
- SUBSCRIBER NETWORK
- DATA CENTER, FTTX, ACCESS NETWORK

FEATURES AND BENEFITS

- HIGH DENSITY FIBER COUNTS-UP TO 720 CORES
- REDUCING SPLICING TIME BY MASS FUSION SPLICING
- LIGHT WEIGHT/ COMPACT DESIGN
- AVAILABLE WITH VARIETY OF JACKET(LAP TAPE, STEEL TAPE, DOUBLE JACKET)
- AVAILABLE FOR GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES

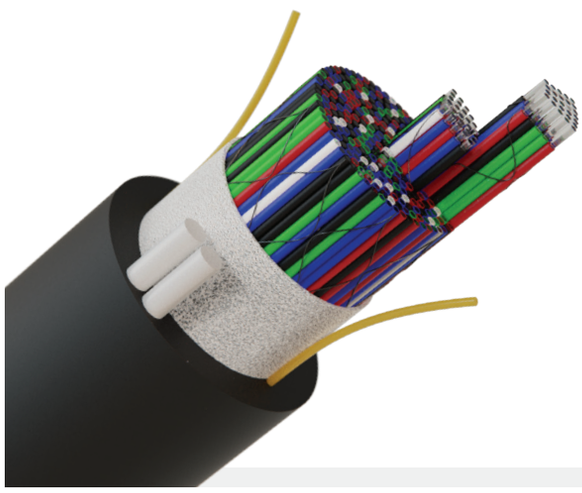
SPECIFICATION

Fiber Counts		144	288	360	432	576	720
Structure of Ribbon Tube		72 cores(12C Ribbon * 6 stacks)					
N0. of Ribbon Tube/Filler		2/3	4/1	5/0	6/0	8/0	10/0
Outer Diameter(mm)		20.7			22.8	27	31.2
Weight(kg/km)		290			350	540	700
Max.Pulling Tension(kg)		380			380	550	750
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter					
	Operation	10 times of Cable outer diameter					
Temperature	Installation	-30℃ ~ +60℃					
	Operation	-40℃ ~ +70℃					

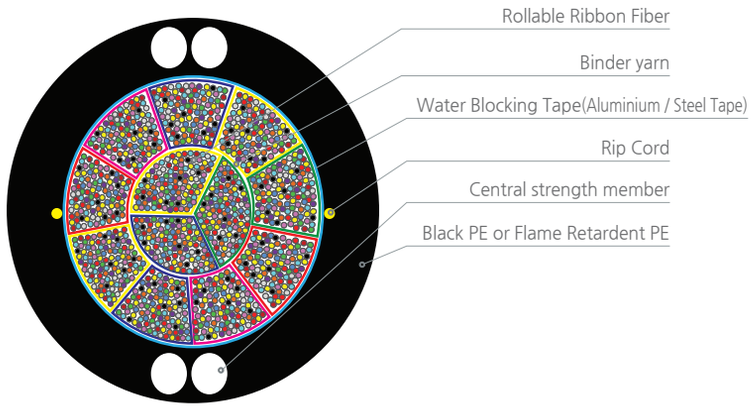
* The data on this table may be changed without any prior notice

ROLLABLE RIBBON SINGLE JACKET OPTICAL CABLE

PICTURE



CABLE CROSS-SECTION



APPLICATION

- UNDERGROUND DUCT
- HIGH-CAPACITY NETWORK
- DATA CENTER, FTTX, ACCESS NETWORK

FEATURES AND BENEFITS

- HIGH DENSITY FIBER COUNTS-UP TO 1728 CORES
- AVAILABLE WITH VARIETY OF JACKET(LAP TAPE, STEEL TAPE, DOUBLE JACKET)
- AVAILABLE FOR GENERAL PE JACKET OR FLAME RETARDENT JACKET
- COLORED STRIPE PE JACKETS(IF REQURED) AVAILABLE
- OUTSTANDING MECHANICAL & ENVIRONMENTAL PROPERTIES
- ENVIRONMENT-FRIENDLY DESIGN WITH ALL DRY MATERIAL, BUT EXCELLENT WATERBLOCKING PERFOR- MANCE
- USING DIFFERENT COLOR BINDER YARNS TO IDENTIFY DIFFERENT RIBBON GROUPS IN CABLE CORE
- EASY FUSION FOR FIBER RIBBONS, SAVE INSTALLATION TIME AND LABOR COST
- REDUCE THE CABLE OUTER DIAMETER MORE THAN 30% AND IMPROVE THE FIBER DENSITY- HIGHER THAN 200% UNDER THE SAME FIBER COUNT
- PROFESSIONAL PRODUCTION TECHNOLOGY, MEET THE EN, ITU, IEC AND OTHER RELEVANT STANDARDS

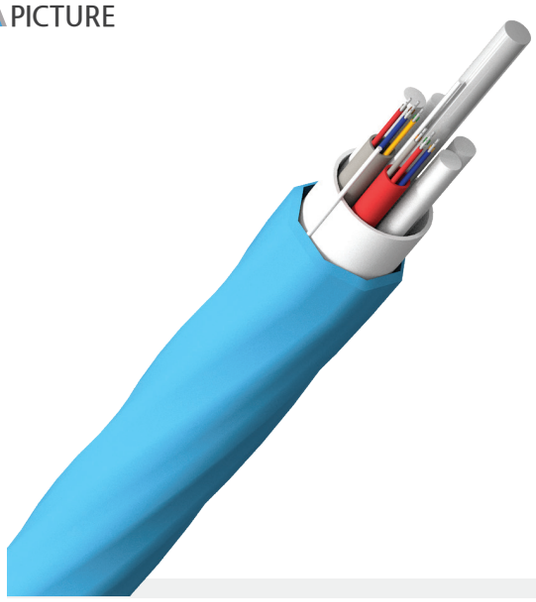
SPECIFICATION

Fiber Counts		288	432	576	864	1152	1728
Structure of Ribbon		12C Rollable Ribbon					
Optical Fibers		ITU-T G.657.A1					
Outer Diameter(mm)		11.5	13	14.5	16.9	18.3	21.8
Weight(kg/km)		110	125	155	211	239	343
Max.Pulling Tension(kg)		Short Term 2700N					
Max.Pulling Tension(kg)		Lomg Term 810N					
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter					
	Operation	10 times of Cable outer diameter					
Temperature	Installation	-30℃ ~ +60℃					
	Operation	-40℃ ~ +70℃					

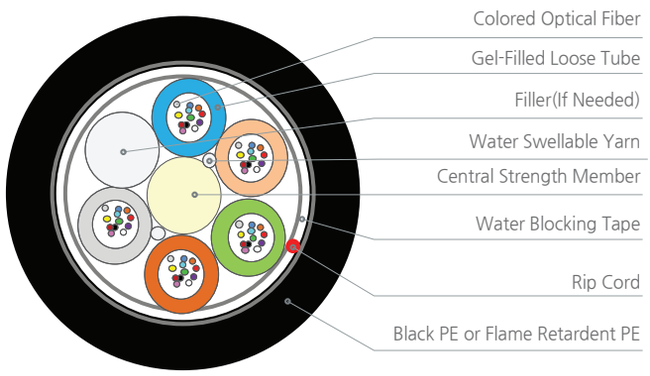
* The data on this table may be changed without any prior notice

LOOSE TUBE AIR BLOWN OPTICAL CABLE(ABC)

PICTURE



CABLE CROSS-SECTION



APPLICATION

- DUCT(MICRO DUCT)
- SUBSCRIBER NETWORK(DISTRIBUTION/DROP)
- FTTX NETWORK

FEATURES AND BENEFITS

- OUTSTANDING OPTICAL FIBER PROTECTION BY PROVEN LOOSE TUBE DESIGN
- AVAILABLE WITH FULL RANGE OF FIBER TYPES AND FIBER COUNT(UP TO 288C)
- LIGHT WEIGHT AND COMPACT DESIGN BY MICRO TUBE AND NON METALLIC.
- EASY TO HANDLE BY DRY CABLE CORE
- PE JACKET OR FLAME RETARDENT JACKET AVAILABLE
- OUTSTANDING BENDING PROPERTIES

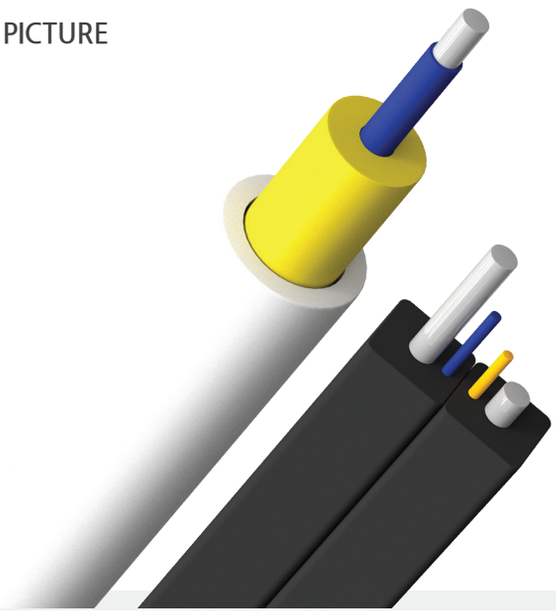
SPECIFICATION

Fiber Counts		2~72	96	120	144	288
Fiber Counts/Tube		2~12				
Outer Diameter(mm)		5.8	6.8	8.0	8.8	9.6
Weight(kg/km)		22	33	46	50	72
Max.Pulling Tension(kg)		80	130	130	130	130
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter				
	Operation	10 times of Cable outer diameter				
Temperature	Installation	-30℃ ~ +60℃				
	Operation	-40℃ ~ +70℃				

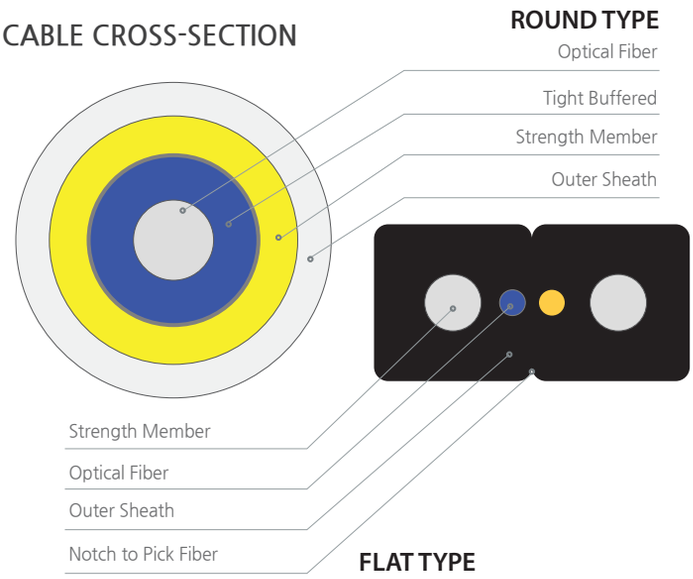
* The data on this table may be changed without any prior notice

Optical Drop Cable (Round/Flat type)

PICTURE



CABLE CROSS-SECTION



APPLICATION

- Fiber to the home(FTTH)
- Cyber APT
- Office Building
- PC room
- CATV

FEATURES AND BENEFITS

- STANDARD FIBER COUNT: 1, 2, 4 CORE
- HIGH FLEXIBILITY AND LIGHT WEIGHT FOR EASY HANDLING
- EASY STRIPPING FOR QUICK SPLICING

SPECIFICATION

Type	Fiber Counts	Buffer Diameter (μm)	Outer Diameter (mm)	Weight (km/kg)
Round	1 or 2	900	3.0	8.6
Flat	1~4	-	2.0 x 3.0 2.0 x 1.6	12

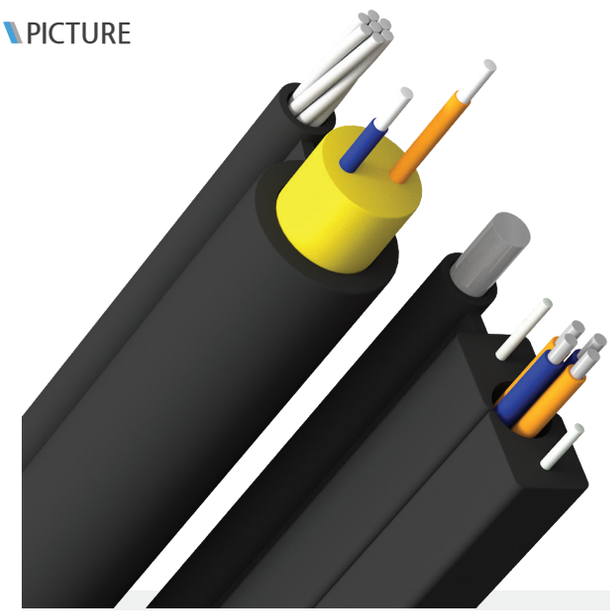
MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Characteristics		Specifications
Max. Tensile Load		Round 500N~1,000N Flat 300N
Crush Resistance		100N/cm
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter
	Operation	10 times of Cable outer diameter
Temperature	Installation	-30℃ ~ +60℃
	Operation	-30℃ ~ +70℃

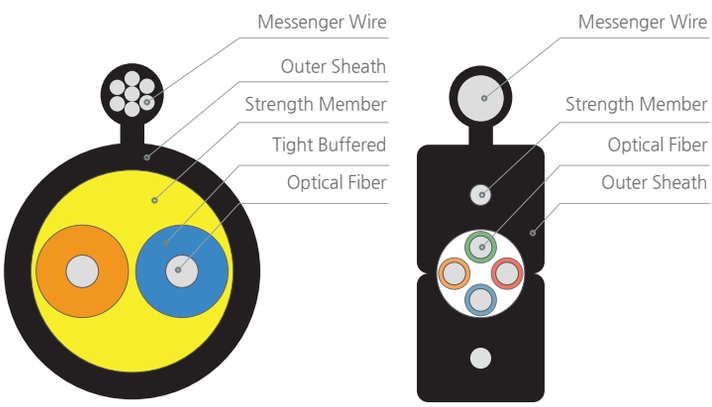
* The data on this table may be changed without any prior notice

Optical Drop Cable (F-8 Round/Flat type)

PICTURE



CABLE CROSS-SECTION



APPLICATION

- Fiber to the home(FTTH)
- Cyber APT
- Office Building
- PC room
- CATV

FEATURES AND BENEFITS

- STANDARD FIBER COUNT: 2~4 CORE
- ECONOMICAL CONSTRUCTION FOR AERIAL CABLING APPLICATION
- OUTSTANDING MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

SPECIFICATION

Type	Fiber Counts	Buffer Diameter (μm)	Outer Diameter (mm)	Weight (km/kg)
F-8	1 or 2	900	3.8 x 6.5	21
Flat	1 or 2	-	2.0 x 5.2	23

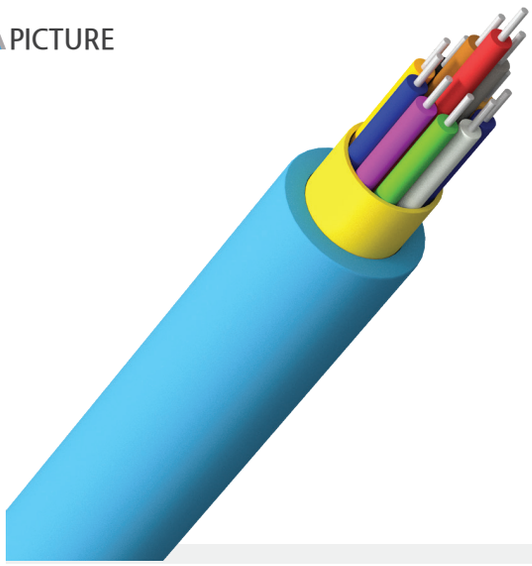
MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Characteristics		Specifications
Max. Tensile Load		Round 1,400N Flat 1,000N
Crush Resistance		1200N/cm
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter
	Operation	10 times of Cable outer diameter
Temperature	Installation	-30℃ ~ +60℃
	Operation	-30℃ ~ +70℃

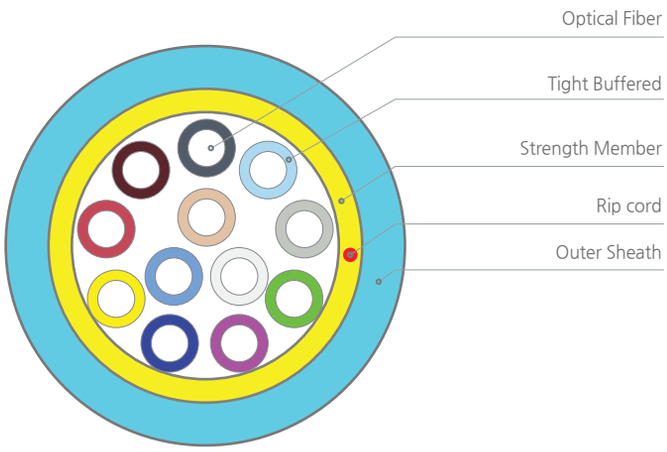
* The data on this table may be changed without any prior notice

Distribution Cable (Tight Buffered Cable)

PICTURE



CABLE CROSS-SECTION



APPLICATION

- FTTX
- Indoor or outdoor application
- Backbone & computer room cabling

FEATURES AND BENEFITS

- STANDARD FIBER COUNT: 2~48 CORE
- SMALL SIZE & LIGHT WEIGHT FOR LIMITED CONDUIT SPACE
- RUGGED & HIGH PERFORMANCE
- LSZH, OFNR, OFNP RATED

SPECIFICATION

Construction	Fiber Counts	Outer Diameter (mm)	Weight (km/kg)
Round Type	2	4.5	20
	4	5.3	25
	6	5.7	30
	8	6.0	35
	12	6.7	40
	16	8.5	70
	18	8.9	75
	24	9.8	90
6 Fiber Subunits	24	13.9	160
12 Fiber Subunits	48	18.3	275

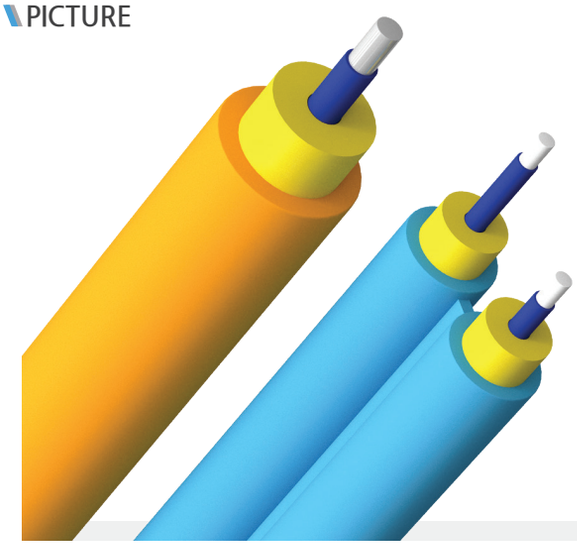
MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Characteristics		Specifications
Max. Tensile Load		600N~1,200N
Crush Resistance		50~100N/cm
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter
	Operation	10 times of Cable outer diameter
Temperature	Installation	-10℃ ~ +70℃
	Operation	-20℃ ~ +70℃

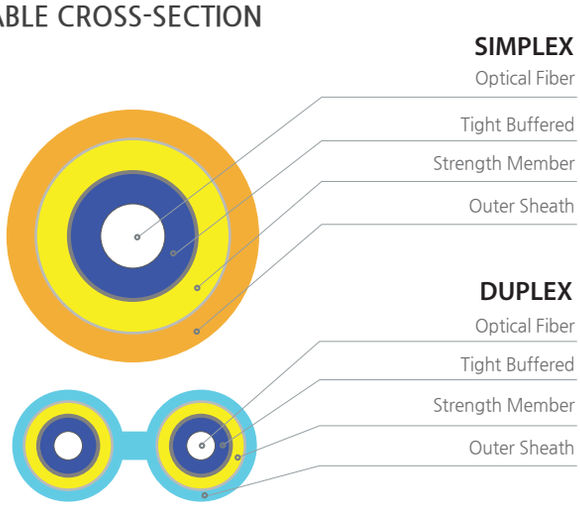
* The data on this table may be changed without any prior notice

Simplex and Duplex Cord

PICTURE



CABLE CROSS-SECTION



APPLICATION

- Short Run Office & Computer Room Cabling
- Patch cords, Pigtails and Jumpers
- Equipment Interconnects

FEATURES AND BENEFITS

- COMPACT & HIGH FLEXIBILITY
- ARAMID YARNS STRENGTH MEMBER REINFORCEMENT
- EASY STRIPPING FOR QUICK SPLICING
- LSZH, OFNR, OFNP RATED

SPECIFICATION

Construction	Buffer Diameter (μm)	Outer Diameter (mm)	Weight (km/kg)
Simplex	600	1.6	3.0
		1.8	4.0
	900	2.0	4.0
		2.4	6.5
		2.9	9.5
Duplex	900	2.0	18.0
		2.8	28.0

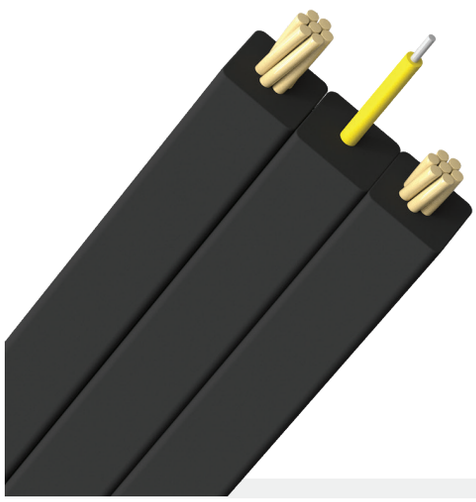
MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Characteristics		Specifications
Max. Tensile Load		200N~500N
Crush Resistance		3.5N/cm
Min. Bend Radius(mm)	Installation	20 times of Cable outer diameter
	Operation	10 times of Cable outer diameter
Temperature	Installation	-10℃ ~ +70℃
	Operation	-20℃ ~ +70℃

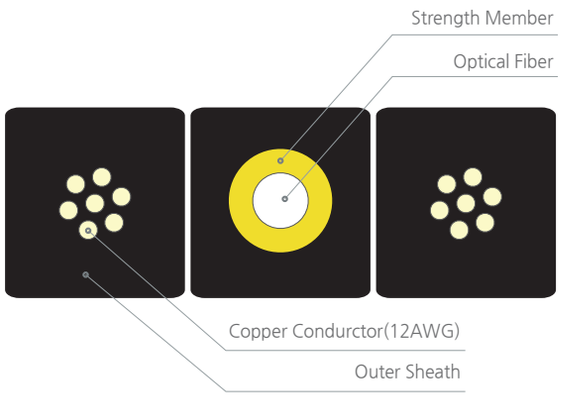
* The data on this table may be changed without any prior notice

Hybrid Cable
(Powered Fiber Optic Cable)

PICTURE



CABLE CROSS-SECTION



APPLICATION

- Remote powering of network access devices
- Low voltage DC devices

FEATURES AND BENEFITS

- HIGHER POWER AND LONGER DISTANCES
- SPEED INSTALLATION
- EASY STRIPPING AND SPILT
- POLARIZATION INDENTATION
- NO SPECIAL TOOLS OR MOUNTING HARDWARE REQUIRED

SPECIFICATION

Fiber Counts	Strength member diameter (mm)	Outer Diameter (mm)	Weight (km/kg)
1 or 2	2.5	12 X 4.5	139

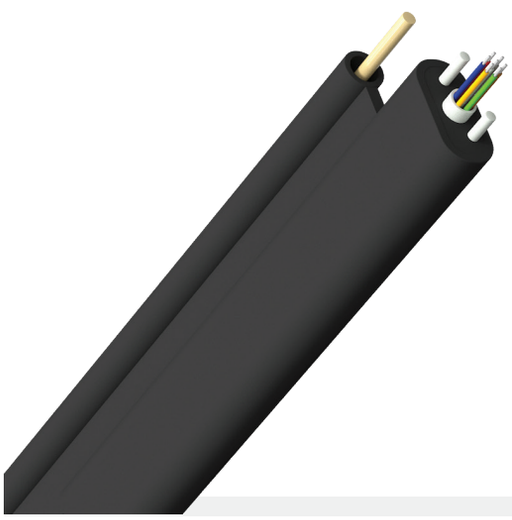
MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Characteristics		Specifications
Tensile Load	Short Term	440N
	Long Term	132N
Bending Radius (Loaded)		165mm
Temperature Range	Installation	-30℃ ~ +60℃
	Operation	-40℃ ~ +70℃

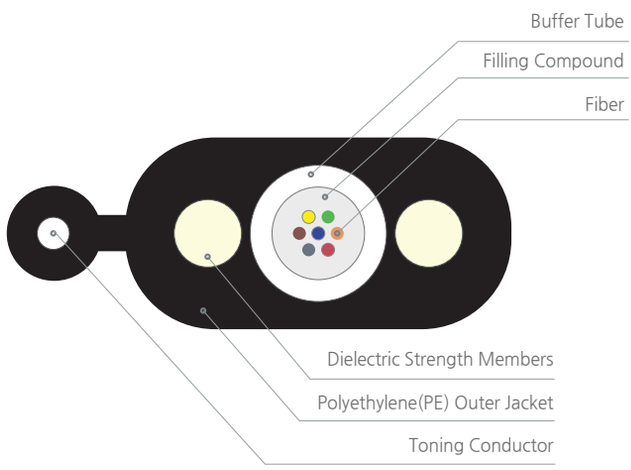
* The data on this table may be changed without any prior notice

Toneable Drop Cable

PICTURE



CABLE CROSS-SECTION



APPLICATION

- Drop cables
- Broadband network
- Local loop
- FTTX
- Aerial or direct bury

FEATURES AND BENEFITS

- UNIVERSAL DESIGN
- MAXIMUM BANDWIDTH
- EXCELLENT CRUSH RESISTANCE
- REDUCES CABLE PREP AND INSTALLATION TIME
- EASY LOCATION AFTER INSTALLATION

SPECIFICATION

Fiber Counts	Conductor Size (AWG)	Width (mm)	Height (mm)	Weight (km/kg)
up to 24	24	9.8	4.5	42

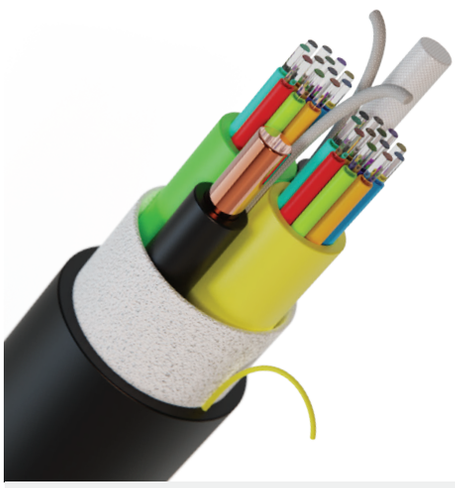
MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Characteristics		Specifications
Tensile Load		1350N
		400N
Crush Resistance		500N/mm
Axis Bending Radius	Loaded	136mm
	Unloaded	68mm
Temperature Range	Installation	-10℃ ~ + 60℃
	Operation	-40℃ ~ + 70℃

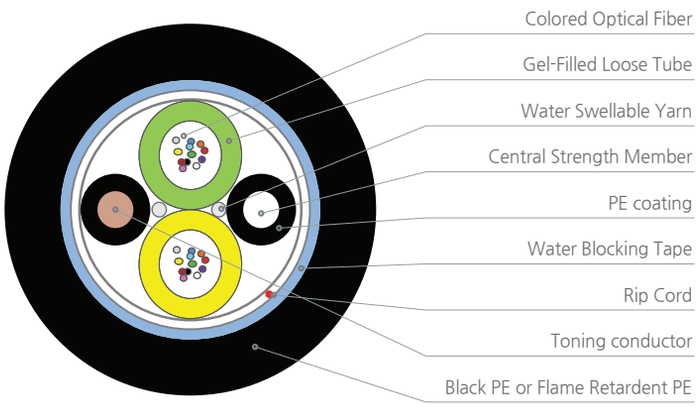
* The data on this table may be changed without any prior notice

Hybrid Toneable Drop Cable

PICTURE



CABLE CROSS-SECTION



APPLICATION

- Drop cables
- Broadband network
- Local loop
- FTTX
- Aerial or direct bury

FEATURES AND BENEFITS

- UNIVERSAL DESIGN
- MAXIMUM BANDWIDTH
- EXCELLENT CRUSH RESISTANCE
- REDUCES CABLE PREP AND INSTALLATION TIME
- EASY LOCATION AFTER INSTALLATION

SPECIFICATION

Fiber Count	Conductor Size (AWG)	Outer Diameter(mm)	Weight (kg/km)
24~28	24	6.2	28

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Characteristics	Specifications	
Tensile Load	Short Term	440N
	Long Term	180N
Crush Resistance	1,000N/mm	
Axis Bending Radius	Loaded	120mm
	Unloaded	60mm
Temperature Range	Installation	-30℃ ~ + 60℃
	Operation	-40℃ ~ + 70℃

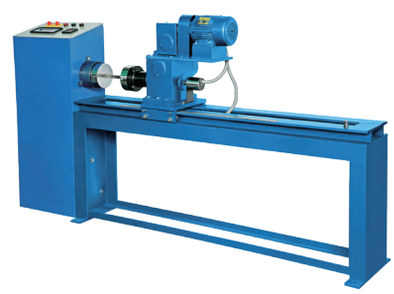
* The data on this table may be changed without any prior notice

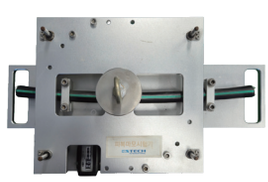
Reliability Test Equipment

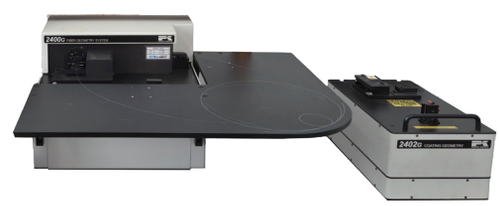
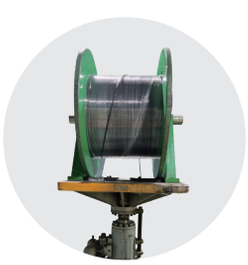
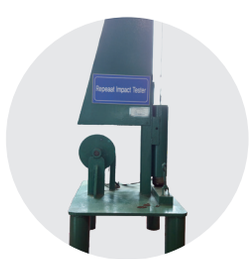
Mechanical, Environmental, and Performance Testing

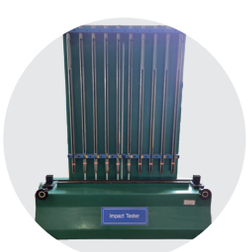
ES-CABLE Inc. verifies the durability of our cables to withstand extreme conditions such as external impact, pressure, and torsion. We simulate a variety of environmental factors — including vibration, high and low temperatures, and smoke density — to comprehensively evaluate cable reliability. Through rigorous and repeated testing under strict standards, we ensure the highest quality.

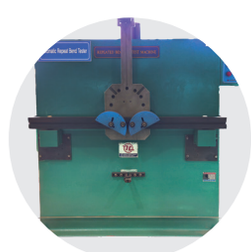


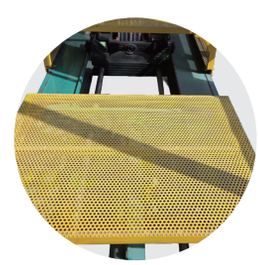









Optical Performance Measurement

We precisely measure minute loss rates and fiber breaks, analyzing signal transmission quality across various wavelengths. Parameters such as wavelength dispersion and polarization mode dispersion (PMD) are thoroughly examined. Using high-precision equipment — including OTDR and spectrum interferometers — we scientifically validate the performance of our optical cables.

ESCABLE CERTIFICATION

CERTIFICATE

ES-TECH INTERNATIONAL. INC.

9, Cheomdansandan 4-gil, Hongbuk-eup, Hongseong-gun, Chungcheongnam-do, Korea

This is to certify that the Quality Management System and the scope of the certification of the above mentioned company meets the requirement of

ISO 9001 : 2015 / KS Q ISO 9001 : 2015

For the following scope of registration (IAF: 19)

1. Development, Manufacture and Service of CATV-UPS and Cable Power Solution
2. Design, Development, Manufacture and Service of Optical Fiber Cable

Certificate Number: JK-12471

Date of Initial Approval: 21 May 2007
Re-issued Date: 18 May 2025
Expiry Date: 18 May 2028

Authorised by Seok Kyu Lee

ISO:9001

CERTIFICATE

ES-TECH INTERNATIONAL. INC.

9, Cheomdansandan 4-gil, Hongbuk-eup, Hongseong-gun, Chungcheongnam-do, Korea

This is to certify that the Environmental Management System and the scope of the certification of the above mentioned company meets the requirement of

ISO 14001 : 2015 / KS I ISO 14001 : 2015

For the following scope of registration (IAF: 19)

1. Development, Manufacture and Service of CATV-UPS and Cable Power Solution
2. Design, Development, Manufacture and Service of Optical Fiber Cable

Certificate Number: JEK-23766

Date of Initial Approval: 17 July 2023
Expiry Date: 16 July 2026

Approved by .....
Seo Il Son, President

ISO:14001

CERTIFICATE

ES-TECH INTERNATIONAL. INC.

9, Cheomdansandan 4-gil, Hongbuk-eup, Hongseong-gun, Chungcheongnam-do, Korea

This is to certify that the Occupational Health & Safety Management System and the scope of the certification of the above mentioned company meets the requirement of

ISO 45001 : 2018 / KS Q ISO 45001 : 2018

For the following scope of registration (IAF: 19)

1. Development, Manufacture and Service of CATV-UPS and Cable Power Solution
2. Design, Development, Manufacture and Service of Optical Fiber Cable

Certificate Number: JOK-1353

Date of Initial Approval: 06 September 2023
Expiry Date: 05 September 2026

Approved by .....
Seo Il Son, President

ISO:45001