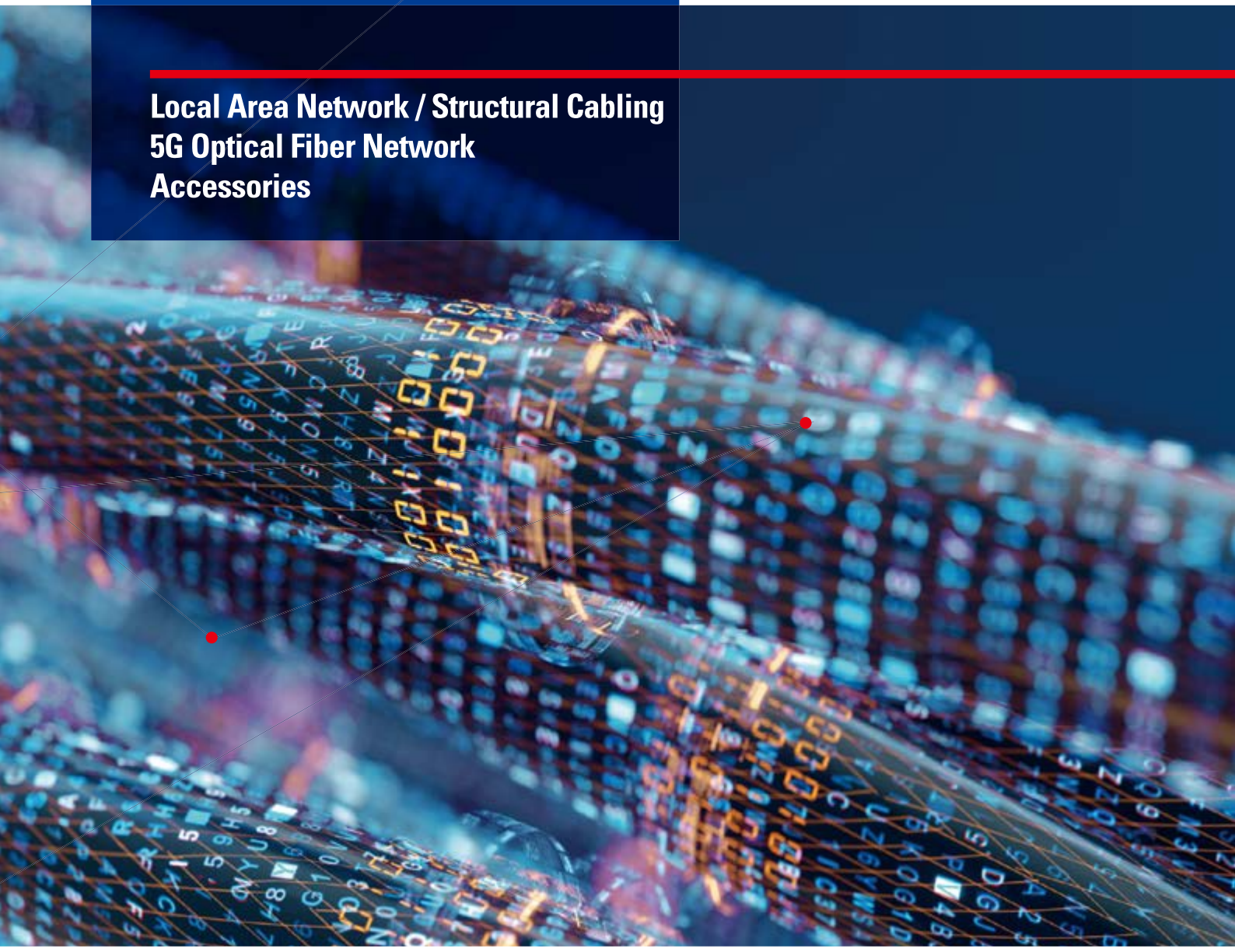
www.taihan.com

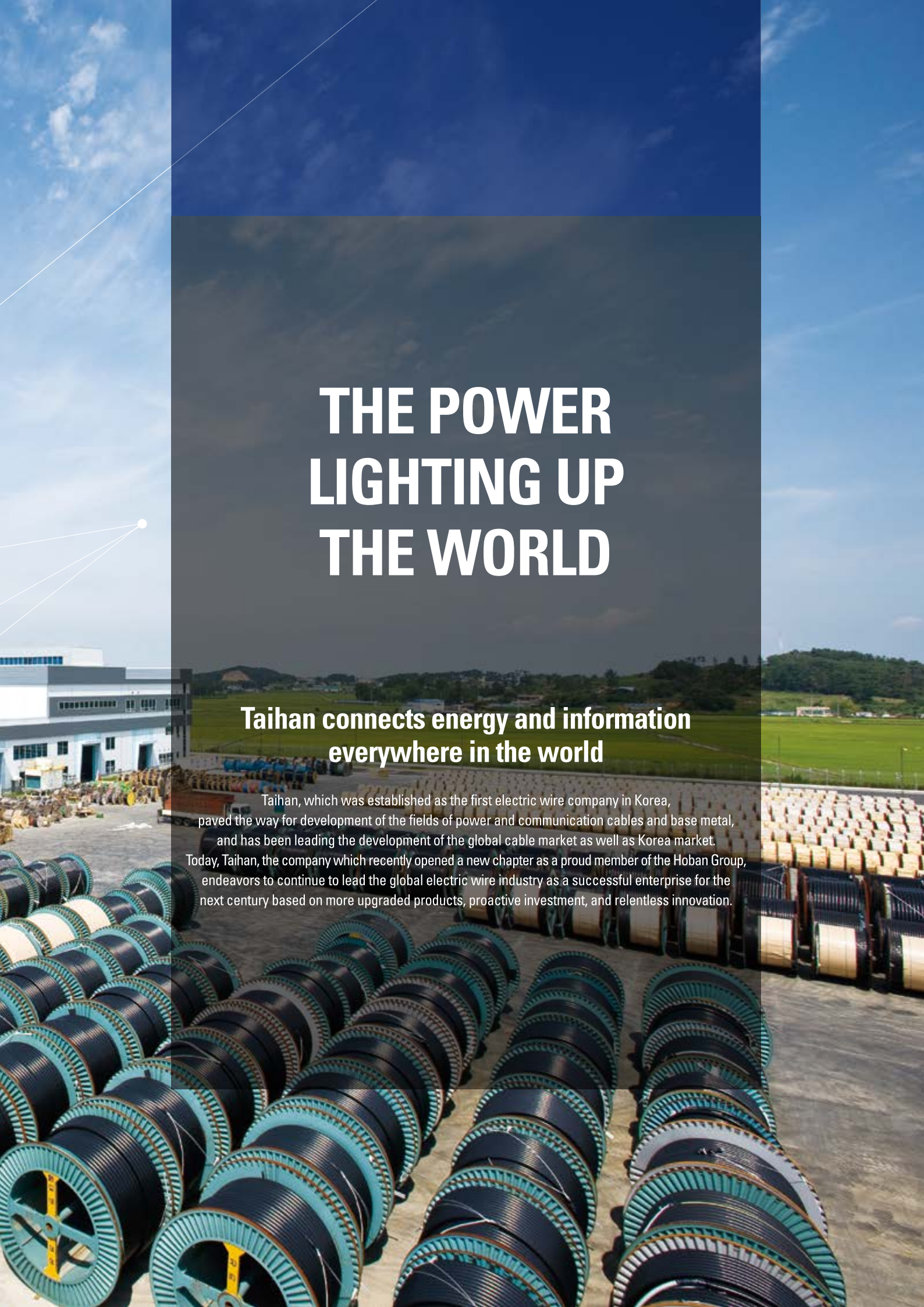
LINK MASTER

Local Area Network / Structural Cabling
5G Optical Fiber Network
Accessories



taihan
CABLE & SOLUTION


talhan



THE POWER LIGHTING UP THE WORLD

Taihan connects energy and information everywhere in the world

Taihan, which was established as the first electric wire company in Korea,
paved the way for development of the fields of power and communication cables and base metal,
and has been leading the development of the global cable market as well as Korea market.
Today, Taihan, the company which recently opened a new chapter as a proud member of the Hoban Group,
endeavors to continue to lead the global electric wire industry as a successful enterprise for the
next century based on more upgraded products, proactive investment, and relentless innovation.

COMMUNICATION CABLE

Taihan manufactures high-performance, high-quality products with accumulated technology and know-how.

Taihan has played a key role in establishing the global communication network by manufacturing various products in the copper communication and optical cables fields. Taihan will continue supplying world-class cables that enable faster, safer, and larger data transmission to further advance the communication technology in the future.



Optical Fiber Cable

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LAN Cable

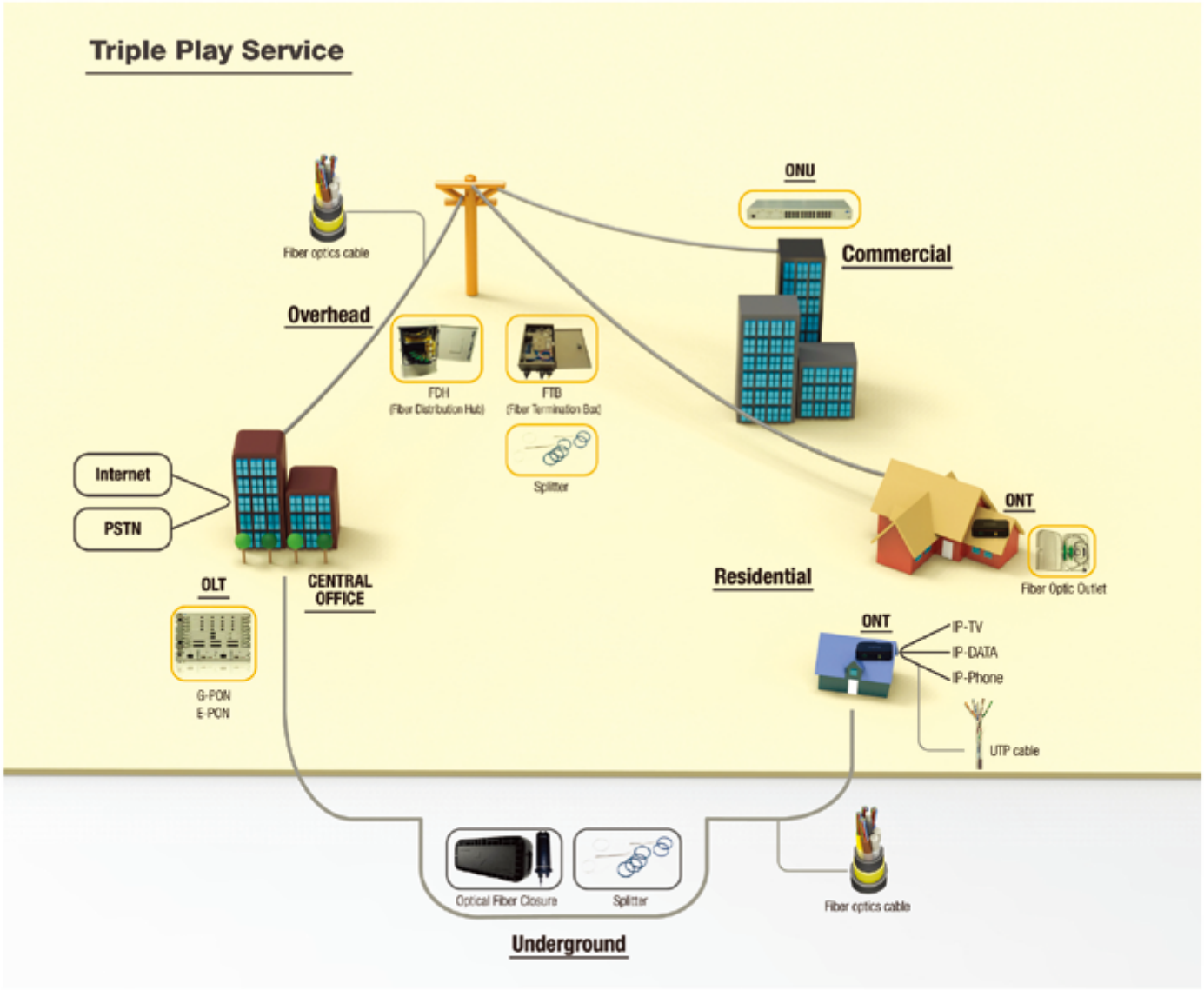
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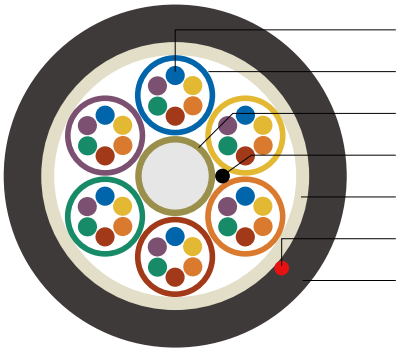
Taihan leads the way to high speed digital world by our FTTH system

Feels ubiquitous life at home by connecting the broadband optical fiber cable to the home.
The dream of digital world comes true with Taihan's FTTH at extremely high speed of more than 100Mbps. You can enjoy much advanced services of HDTV, IPTV, video conference, IP telephony, remote medical service and high quality internet through Taihan's FTTH system.
Taihan provides futuristic IT network to be connected at super high speed with our FTTH system.



Optical Fiber Cable

Loosetube Cable with Central Strength Member



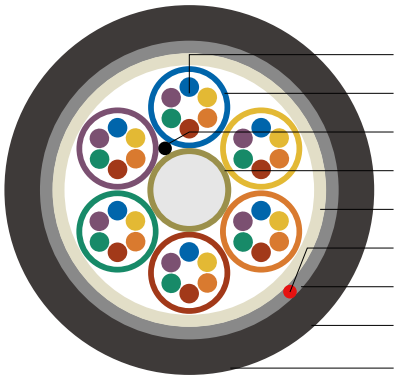
1. Optical Fiber
2. Loose tube
3. Central Strength Member
4. Moisture Barrier : Water blocking jelly filling compound or yarn
5. Wrapping Tape : Non-hygroscopic plastic tape or water blocking tape
6. Rip Cord
7. Outer Sheath : Black Polyethylene

Feature

- Excellent optical performance
- High tensile strength design
- Solid mechanical and environment performance
- Light and flexible due to its simple structural design

Application

- Long haul communication system
- Local Area Network(LAN)
- Outdoor, indoor use
- High speed data transmission conduit



1. Optical Fiber
2. Loose tube
3. Moisture Barrier : Water blocking jelly filling compound or yarn
4. Central Strength Member
5. Wrapping Tape : Non-hygroscopic plastic tape
6. Inner Sheath : Black Polyethylene
7. Rip Cord
8. Armored Layer : Corrugated Steel Tape
9. Outer Sheath : Black Polyethylene

Options

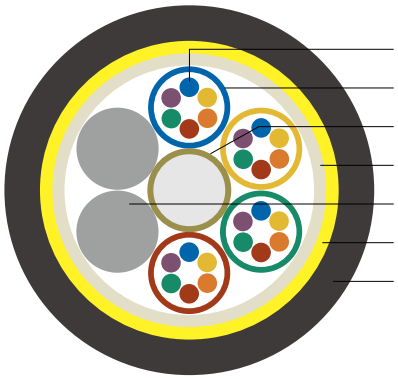
- Optical fiber : Singlemode fiber and Multimode fiber (9um, 50um, 62.5um)
- No. of fibers : 2~288C
- Loose tube : PBT or PP
- Dry of jelly-filled type
- Central Strengh Member : Galvanized steel wire or fiber reinforced plastic
- Armoring : SJNA, SJSA, DJSA
- Sheath : Standard PE or Flame Retardant PE

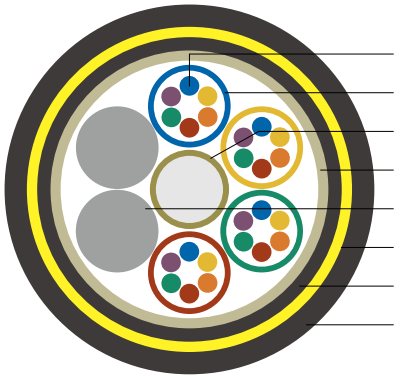
Cable Characteristics

No. of Optical Fibers	No. of Tubes	No. of fibers Per tube	Cable Diameter (mm)	Cable Weight (kg/km)	Bending Radius
2~36	1~6	6C/Tube	9.0	60	Dynamic 20D Static 10D
38~72	1~6	12C/Tube	9.5	70	
74~96	1~8	12C/Tube	11.0	95	
98~120	1~10	12C/Tube	12.5	115	
122~144	1~12	12C/Tube	13.5	140	
146~288	1~24	12C/Tube	16.0	190	

Ambient temperature : -30°C ~ +60°C

All-Dielectric Self-Supported Aerial Cable(ADSS)





Feature

- Excellent optical performance
- Solid mechanical and environmental performance
- Protection from lighting and electrical interference
- Small diameter and light weigh

Application

- Long haul communication system
- Subscriber network system

Options

- Optical fiber : Singlemode fiber and Multimode fiber
  (9um, 50um, 62.5um)
- No. of fibers : 2~144C
- Loose tube : PBT
- Dry type
- Central Strength Member : fiber reinforced plastic
- Sheath : Single or Double Jacket
  Standard PE or anti tracking PE

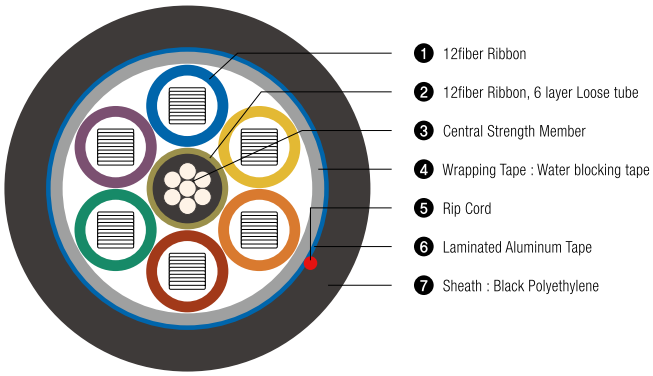
Cable Characteristics

No. of Fiber Per tube	Single Jacket			Double Jacket		Bending Radius
	No. of Optical Fibers	Outer Diameter (mm)	Cable Weight (kg/km)	Cable Diameter (mm)	Cable Weight (kg/km)	
6	〈30	11.7	100	15.0	160	Dynamic 20D Static 10D
12	〈60	12.3	110	–	–	
	〈72	12.5	115	16.0	180	
	〈96	14.0	145	17.5	230	
	〈120	15.6	180	19.2	275	
	〈144	17.2	215	21.0	330	

Ambient temperature : -40°C ~ +70°C

Optical Fiber Cable

Optical Fiber Ribbon Tube Cable



Feature

- Excellent optical performance
- High tensile strength design
- Larger fiber count with small cable outer diameter
- Excellent branch and joint performance

Application

- Long haul communication system
- Local Area Network(LAN)
- Subscriber network system

Options

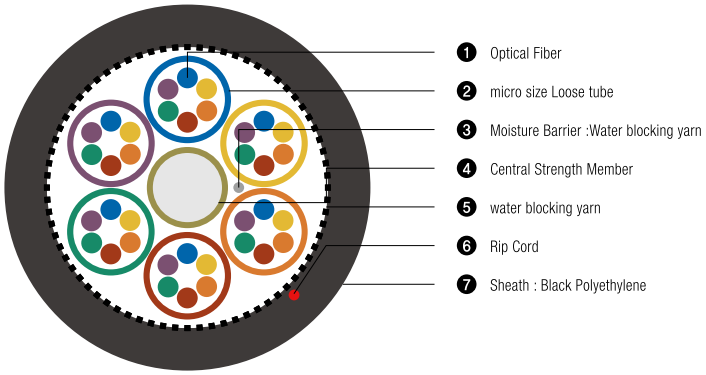
- Optical fiber : Singlemode(9/125) fiber (OS2)
- No. of fibers : 144~720C
- Central Strength Member : Galvanized steel wire
- Sheath : Standard PE or Flame Retardant PE

Cable Characteristics

No. of Optical Fibers	No. of Tubes	No. of fibers Per tube	Cable Diameter (mm)	Cable Weight (kg/km)	Tensile Strength (kg)		Bending Radius
					Installing	Operating	
144	2	72C/Tube	22.0	385	270	100	Dynamic 20D Static 10D
216	3	72C/Tube	22.0	395	270	100	
288	4	72C/Tube	22.0	405	270	100	
360	5	72C/Tube	22.0	415	270	100	
432	6	72C/Tube	24.0	485	300	100	
504	7	72C/Tube	26.0	555	300	100	
576	8	72C/Tube	28.0	635	300	100	
648	9	72C/Tube	30.0	715	350	150	
720	10	72C/Tube	32.0	825	350	150	

· Ambient temperature : -40°C ~ +60°C

ABC(Air Blown Cable)



Feature

- Jetting method using air compressor allows cable to be installed in areas that are hard to reach
- Made up of micro-sized loose tubes, ABC allows ducts to hold more cables than traditional loose tube cables
- Installation technique makes cable stress free
- Light and flexible

Application

- Fiber-To-The-Subscriber(FTTx)
- Subscriber network system

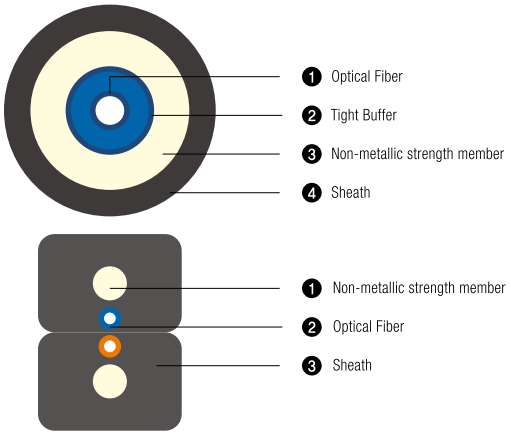
Cable Characteristics

No. of Optical Fibers	No. of Tubes	No. of fibers Per tube	Cable Diameter (mm)	Cable Weight (kg/km)	Air Compression Installation	Bending Radius
4, 8	1	4,8C/Tube	6.5	30	500M within 20minutes	Dynamic 20D Static 15D
12	1	12C/Tube	6.5	30		
24	2	12C/Tube	6.5	35		
36	3	12C/Tube	6.5	35		
72	6	12C/Tube	6.5	35		
96	8	12C/Tube	7.5	50		
144	12	12C/Tube	9.5	80		
144	6	24C/Tube	8.5	55		
288	24	12C/Tube	12.7	95		
288	12	24C/Tube	11.0	115		

· Ambient temperature : -30°C ~ +60°C

Optical Fiber Cable

Drop Cable for FTTH



Feature

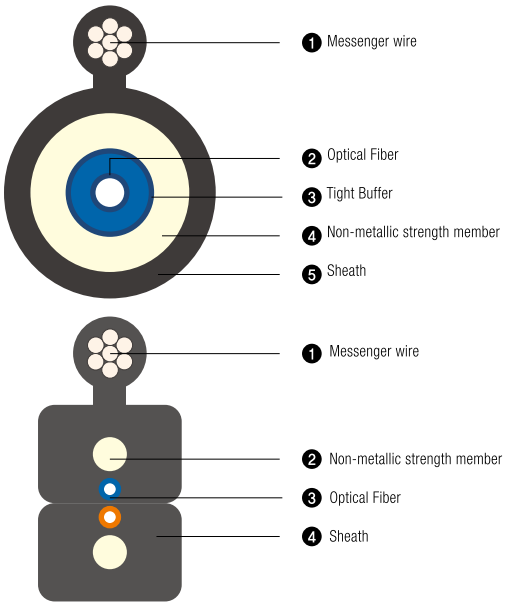
· Tight Buffer allows easy connection with indoor network system
· Easy handling and installation and maintenance
· Light and Flexible

Application

· Fiber-To-The-Subscriber(FTTx)
· For inside of the buildings

Options

· SM9E/125(ITU-T G.652D)
· BIF SM 9E/125(ITU-T G.657 A1, A2, B3)

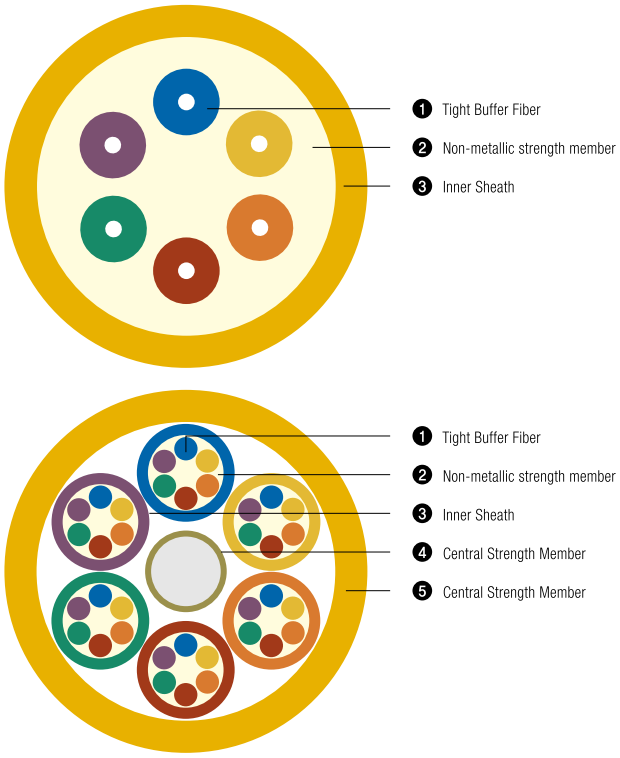


Cable Characteristics

No. of Optical Fiber		Sub-Unit	Cable Diameter (mm)	Cable Weight (kg/km)	Bending Radius
Round Type	1	–	3	8	Dynamic 20D Static 10D
	2	–	5	25	
Flat Type	1	–	1.9x3.5	10	
	2	–			

· Ambient temperature : -20°C ~ +60°C

Distribution Cable



Feature

- Tight Buffer allows easy connection with indoor network system
- Easy handling and installation and maintenance due to lack of jelly
- Light and Flexible
- Versatile with both singlemode and Multimode fiber

Application

- Fiber-To-The-Subscriber(FTTx)
- For inside of the buildings

Loose tube Colors

- BL / OR / GR / RD / YL / PU / BR / BK
- BL / OR / GR / RD / YL / PU / BR / BK / WH / GY / GB / PN

Optical Fiber Types

- SM 9E/125(ITU-T G.652D)
- BIF SM 9E/125(ITU-T G657 A1, A2, B3)
- MM 62.5/125(OM1)
- MM 50/125(OM2, OM3, OM4)

Cable Characteristics

No. of Fiber	Sub-Unit	Cable Diameter (mm)	Cable Weight (kg/km)	Bending Radius
2	–	5.5	30	Dynamic 20D Static 10D
4	–	5.5	30	
6	–	5.5	30	
8	–	6.3	40	
12	–	6.3	40	
12 ~ 24	4	14.5	180	
26 ~ 36	6	15.5	200	
28 ~ 48	8	18.0	280	

· Ambient temperature : -20°C ~ +60°C

Fiber Optic Closure



Description

Fiber Optic Closure TEC500H-A/B/C designed for operational efficiency and scalability are infrastructure solutions for FTTx networks. The closure simplifies FTTx network installation process, maintenance and management from central office to the each outside plants.

The closure provides for connections between fiber optic cables and passive optical splitters in the outside plant. The closure protects fiber optic splicing point and can be mounted to support aerial and buried and underground applications.





Parameter	TEC500H–A	TEC500H–B	TEC500H–C
Dimensions(mm)	457(H) x Φ177(R)	540(H) x Φ198(R)	578(H) x Φ257(R)
Weight	2.5kg	3.5kg	7.5kg
Material	PP		
Entrance	Single : 4 / Oval : 1	Single : 5 / Oval : 1	
Suitable cable dia.	Singles : less than 20mm / Oval : less than 28mm		Singles : Less than 20 Oval : Less than 28
Max. No. of splice tray	4	6	12
Capacity per tray	24C		
Max. capacity	96C	144C	288C
Splice Method	Fusion		
Cable Blocking	Heat Shrinkable Tube		



Description

Fiber Optic Joint Closure is designed for connectic fiber optic cables in various environmental conditions, and it provides the connection between fiber optic cable and passive optical splitters in outside plants. The closure can be installed in aerial, duct and underground.

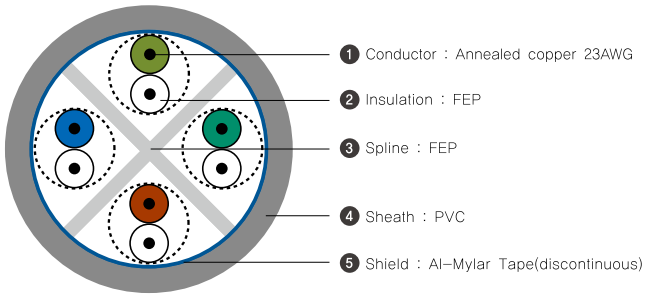


	Parameter	
General	Dimensions (LxWxH) [mm]	430 x 170 x 110 mm
Cable entry	Gasket Type	3 feeder
	Cable diameter	Feeder : 7~24mm
Capacity	Splice capacity per tray	24F
	No. of Splice Tray	2
	Splice Capacity	48

Unshielded Twisted Pair Category 6A

Cat.6A – 4P





Technical Data

- Resistance(Ω/m, 20 °C) Max. 9.38
- Resistance Unbalance (%) : Max. 5.0
- Mutual Capacitance (nF/100m) : Max. 5.6
- Capacitance Unbalance (pF/100m) : Max.330

Safety / Fire Rating Requirements

- NFPA 262 (CMP)
- UL 1666(CMR)
- UL 1581(CM)
- IEC60332-1 / IEC 60754-1 / IEC 60754-2 / IEC61304-2 (LSZH)
- IEC60332-3-24 / IEC 60754-1 / IEC 60754-2 / IEC61304-2 (LSFRZH)

Reference Standard

- ANSI / EIA / TIA-568-C.2
- ISO / IEC 11801
- UL 444

Application

- High Speed Horizontal Distribution & Backbone cabling(500MHz)
- 10GBASE-T, 10Gigabit Ethernet
- IEEE 802.3an
- Digital Video
- IBS(Intelligence Building System) and IDC(Internet Data Center

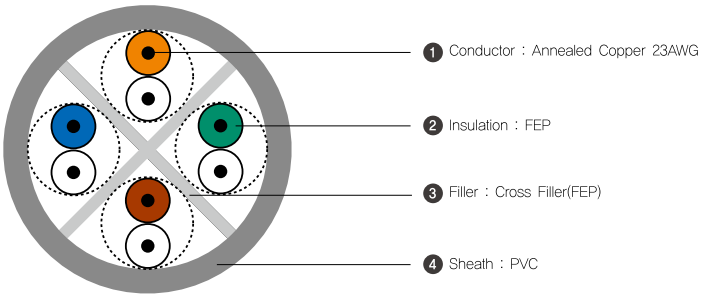
Item	Cable diameter (mm)	Weight (kg/300m)	Packaging type
CMP	7.5	16.1	REEL
CMR/CM	9.0	17.7	REEL
LSZH	9.0	17.7	REEL
LSFRZH	9.0	17.7	REEL

Frequency (Mhz)	RL (Min. dB)	IL (Max. dB /100m)	NEXT (Min. dB /100m)	PSNEXT (Min. dB /100m)	ACRF (Min. dB /100m)	PSACRF (Min. dB /100m)	PSANEXT (Min. dB/100m)	PSAACRF (Min. dB/100m)
1	20.0	2.1	74.3	72.3	67.8	64.8	67.0	67.0
4	23.0	3.8	65.3	63.3	55.8	52.8	67.0	66.2
8	24.5	5.3	60.8	58.8	49.7	46.7	67.0	60.1
10	25.0	5.9	59.3	57.3	47.8	44.8	67.0	58.2
16	25.0	7.5	56.2	54.2	43.7	40.7	67.0	54.1
20	25.0	8.4	54.8	52.8	41.8	38.8	67.0	52.2
25	24.3	9.4	53.3	51.3	39.8	36.8	67.0	50.2
31.25	23.6	10.5	51.9	49.9	37.9	34.9	67.0	48.3
62.5	21.5	15.0	47.4	45.4	31.9	28.9	65.6	42.3
100	20.1	19.1	44.3	42.3	27.8	24.8	62.5	38.2
200	18.0	27.6	39.8	37.8	21.8	18.8	58.0	32.2
250	17.3	31.1	38.3	36.3	19.8	16.8	56.5	30.2
300	16.8	34.3	37.1	35.1	18.3	15.3	55.3	28.7
400	15.9	40.1	35.3	33.3	15.8	12.8	53.5	26.2
500	15.2	45.3	33.8	31.8	13.8	10.8	52.0	24.2

Unshielded Twisted Pair Category 6

Cat.6 – 4P





Technical Data

· Resistance(Ω/m, 20 °C) Max. 9.38
· Resistance Unbalance (%) : Max. 5.0
· Mutual Capacitance (nF/100m) : Max. 5.6
· Capacitance Unbalance (pF/100m) : Max.330

Safety / Fire Rating Requirements

· NFPA 262 (CMP)
· UL 1666(CMR)
· UL 1581(CM)
· IEC60332-1 / IEC 60754-1 / IEC 60754-2 / IEC61304-2 (LSZH)
· IEC60332-3-24 / IEC 60754-1 / IEC 60754-2 / IEC61304-2 (LSFRZH)

Reference Standard

· ANSI / EIA / TIA-568-C.2
· ISO / IEC 11801
· UL 444

Application

· Horizontal cabling(250MHz)
· ATM LAN 1.2Gbps
· 10/100/1000 Base T
· ATM-1200/Category 6, Data 4 x 155.5Mbs
· IEEE 802.3an
· Digital Video, Giga Internet, Data Rate 10gbps

Item	Cable diameter (mm)	Weight (kg/300m)	Packaging type
CMP	6.2	12.6	Reelex/RIB/Reel
CMR/CM	5.9	10.7	Reelex/RIB/Reel
LSZH	5.9	10.7	Reelex/RIB/Reel
LSFRZH	6.1	11.4	Reelex/RIB/Reel

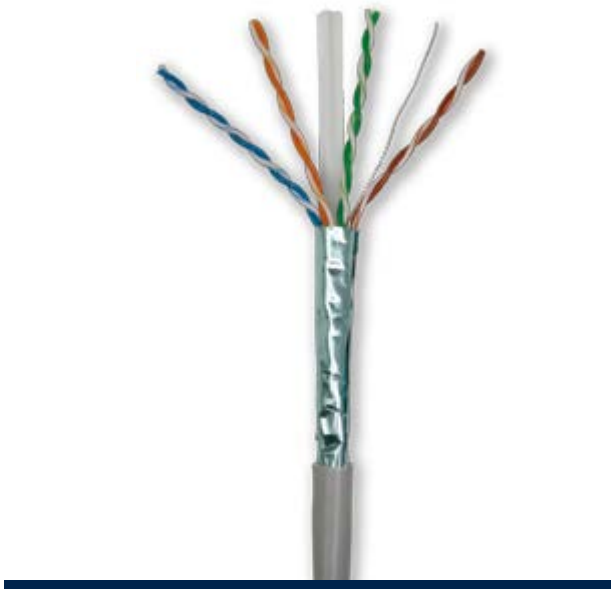
Jacket Color

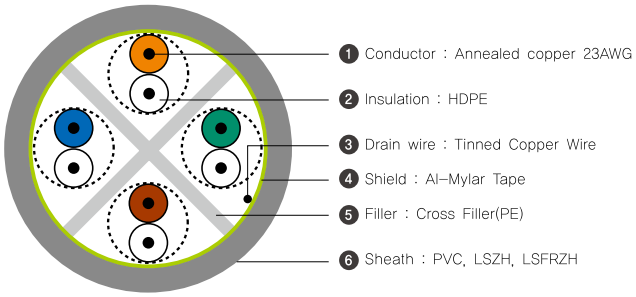
· GY, WT, BL, VT, OR, RD, GR, YL, BK

Frequency (MHz)	Z_0(Ω)	RL (Min.dB)	IL (Max.dB/100m)	NEXT (Min.dB/100m)	PSNEXT (Min.dB/100m)	ACRF (Min.dB/100m)	PSACRF (Min.dB/100m)
1	100±15	20.0	2.0	74.3	72.3	67.8	64.8
4	100±15	23.0	3.8	65.3	63.3	55.8	52.8
8	100±15	24.5	5.3	60.8	58.8	49.7	46.7
10	100±15	25.0	6.0	58.3	57.3	47.8	44.8
16	100±15	25.0	7.6	56.2	54.2	43.7	40.7
20	100±15	25.0	8.5	54.8	52.8	41.8	38.8
25	100±15	24.3	9.5	53.3	51.3	39.8	36.8
31.25	100±15	23.6	10.7	51.9	49.9	37.9	34.9
62.5	100±15	21.5	15.4	47.4	45.4	31.9	28.9
100	100±15	20.1	19.8	44.3	42.3	27.8	24.8
200	100±15	18.0	29.0	39.8	37.8	21.8	18.8
250	100±15	17.3	32.8	38.3	36.3	19.8	16.8

F/UTP(Overall Foil Shielded/Unshielded Twisted Pair)

F/UTP Cat.6-4P





Technical Data

·Resistance(Ω/100m, 20): Max.9.38
·Resistance Unbalance(%): Max.5.0
·Mutual Capacitance(nF/100m):Max.5.6
·Capacitance Unbalance(pF/100m):Max.330

Safety / Fire Rating Requirements

·UL 1581(CM)
·UL 1666(CMR)
·IEC60332-1/IEC60754-1/IEC60754-2/IEC61034-2(LSZH)
·IEC60332-3-24/IEC60754-1/IEC60754-2/IEC61034-2(LSFRZH)

Reference Standard

·ANSI/TIA-568-C.2
·ISO/IEC11801
·UL 444

Application

·Horizontal cabling(250MHz, Improved EMI Performance)
·ATM LAN 1.2Gbps
·100 Base-TX, 1000 Base-T, -T4, -X
·155Mbps ATM
·IEEE 802.3, 802.5

ITEM	Cable diameter (mm)	Weight (kg/305m)	Packaging type
CM/CMR	7.2	13.4	Reel
LSZH	7.2	13.4	Reel
LSFRZH	7.2	13.4	Reel

Jacket Color

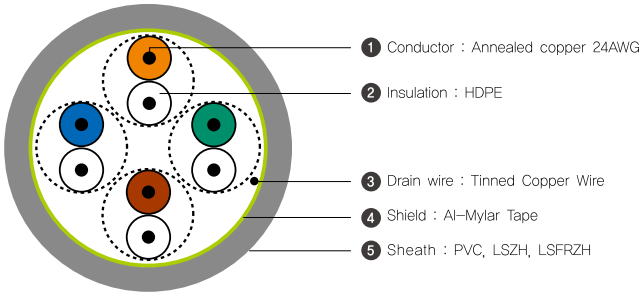
· GY, WT, BL, VT, OR, RD, GR, YL, BK

Frequency (MHz)	Z_0(Ω)	RL (Min.dB)	IL (Max.dB/100m)	NEXT (Min.dB/100m)	PSNEXT (Min.dB/100m)	ACRF (Min.dB/100m)	PSACRF (Min.dB/100m)
1	100±15	20.0	2.0	74.3	72.3	67.8	64.8
4	100±15	23.0	3.8	65.3	63.3	55.8	52.8
8	100±15	24.5	5.3	60.8	58.8	49.7	46.7
10	100±15	25.0	6.0	58.3	57.3	47.8	44.8
16	100±15	25.0	7.6	56.2	54.2	43.7	40.7
20	100±15	25.0	8.5	54.8	52.8	41.8	38.8
25	100±15	24.3	9.5	53.3	51.3	39.8	36.8
31.25	100±15	23.6	10.7	51.9	49.9	37.9	34.9
62.5	100±15	21.5	15.4	47.4	45.4	31.9	28.9
100	100±15	20.1	19.8	44.3	42.3	27.8	24.8
200	100±15	18.0	29.0	39.8	37.8	21.8	18.8
250	100±15	17.3	32.8	38.3	36.3	19.8	16.8

F/UTP(Overall Foil Shielded/Unshielded Twisted Pair)

F/UTP Cat.5E-4P





Technical Data

·Resistance(Ω/100m, 20): Max.9.38
·Resistance Unbalance(%): Max.5.0
·Mutual Capacitance(nF/100m):Max.5.6
·Capacitance Unbalance(pF/100m):Max.330

Safety / Fire Rating Requirements

·UL 1581(CM)
·UL 1666(CMR)
·IEC60332-1/IEC60754-1/IEC60754-2/IEC61034-2(LSZH)
·IEC60332-3-24/IEC60754-1/IEC60754-2/IEC61034-2(LSFRZH)

Reference Standard

·ANSI/TIA-568-C.2
·ISO/IEC11801
·UL 444

Application

·Horizontal cabling(100MHz, Improved EMI Performance)
·155Mbps ATM
·IEEE 802.3, 802.5
·Token Ring 16Mbps, Data rate 16Mbps
·100 Base-TX, 1000 Base-T, -T4, -X

ITEM	Cable diameter (mm)	Weight (kg/305m)	Packaging type
CM/CMR	6.2	11	RIB/Reel
LSZH	6.2	11	RIB/Reel
LSFRZH	6.2	11	RIB/Reel

Jacket Color

· GY, WT, BL, VT, OR, RD, GR, YL, BK

Frequency (MHz)	Z_0(Ω)	RL (Min.dB)	IL (Max.dB/100m)	NEXT (Min.dB/100m)	PSNEXT (Min.dB/100m)	ACRF (Min.dB/100m)	PSACRF (Min.dB/100m)
0.772	–	–	1.8	67.0	64.0	–	–
1	100±15	20.0	2.0	65.3	62.3	63.8	60.8
4	100±15	23.0	4.1	56.3	53.3	51.8	48.7
8	100±15	24.5	5.8	51.8	48.8	45.7	42.7
10	100±15	25.0	6.5	50.3	47.3	43.8	40.8
16	100±15	25.0	8.2	47.2	44.4	39.7	36.7
20	100±15	25.0	9.3	45.8	42.8	37.8	34.7
25	100±15	24.3	10.4	44.3	41.3	35.8	32.8
31.25	100±15	23.6	11.7	42.9	39.9	33.9	30.9
62.5	100±15	21.5	17.0	38.4	35.4	27.9	24.8
100	100±15	20.1	22.0	35.3	32.3	23.8	20.8

F/FTP(Overall Foil Shielded/Foiled Twisted Pair)

F/FTP Cat.7-4P



Technical Data

·Loop Resistance(Ω/100m, 20): Max.19.0
·Resistance Unbalance(%): Max.2.0
·Capacitance Unbalance(pF/ , 1kHz):Max.1600

Safety / Fire Rating Requirements

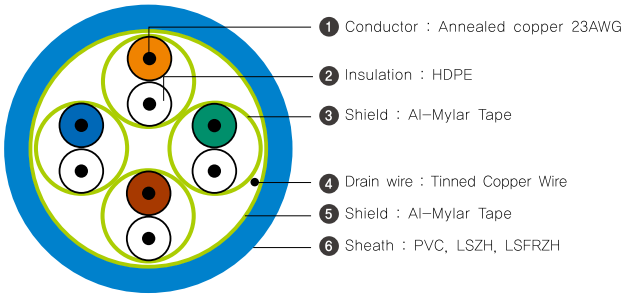
·UL 1581(CM)
·UL 1666(CMR)
·IEC60332-1/IEC60754-1/IEC60754-2/IEC61034-2(LSZH)
·IEC60332-3-24/IEC60754-1/IEC60754-2/IEC61034-2(LSFRZH)

Reference Standard

·IEC 61156-5
·IEC 11801 Class F
·UL 444

Application

·High Speed Horizontal cabling(600MHz)
·Gigabit Ethernet
·100BASE-T
·IEEE 802.3, 802.5



ITEM	Cable diameter (mm)	Weight (kg/305m)	Packaging type
CM/CMR	7.2	16	Reel
LSZH	7.2	16	Reel
LSFRZH	7.2	16	Reel

Jacket Color

·GY, WT, BL, VT, OR, RD, GR, YL, BK

Frequency (MHz)	Z_0(Ω)	RL (Min.dB)	IL (Max.dB/100m)	NEXT (Min.dB/100m)	PSNEXT (Min.dB/100m)	ACRF (Min.dB/100m)	PSACRF (Min.dB/100m)
1	–	–	–	–	–	–	–
4	100±15	23.0	3.7	78	75	78	75
10	100±15	25.0	5.9	78	75	74	71
16	100±15	25.0	7.4	78	75	70	67
20	100±15	25.0	8.3	78	75	68	65
31.25	100±15	23.6	10.4	78	75	64	61
62.5	100±15	21.5	14.9	75	72	58	55
100	100±15	20.1	19.0	72	69	54	51
125	100±22	19.4	21.4	71	68	52	49
200	100±22	18.0	27.5	68	65	48	45
250	100±25	17.3	31.0	66	63	46	43
300	100±25	17.3	34.2	65	62	44	41
600	100±25	17.3	50.1	51	58	38	35

SF/UTP Cat.6-4P



Technical Data

·Resistance(Ω/100m, 20): Max.9.38
·Resistance Unbalance(%): Max.5.0
·Mutual Capacitance(nF/100m):Max.5.6
·Capacitance Unbalance(pF/100m):Max.330

Safety / Fire Rating Requirements

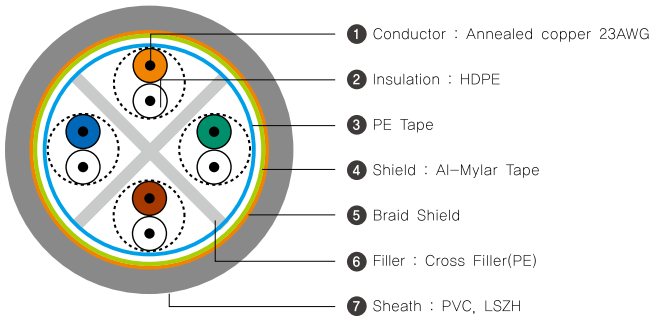
·UL 1581(CM)
·UL 1666(CMR)
·IEC60332-1/IEC60754-1/IEC60754-2/IEC61034-2(LSZH)

Reference Standard

·ANSI/TIA-568-C.2
·ISO/IEC11801
·UL 444

Application

·Horizontal cabling
(250MHz, Improved EMI Performance)
·IEEE 802.3, 802.5
·155/622Mbps ATM LAN 1.2Gbps
·Gigabit Ethernet, Data rate 1Gbps



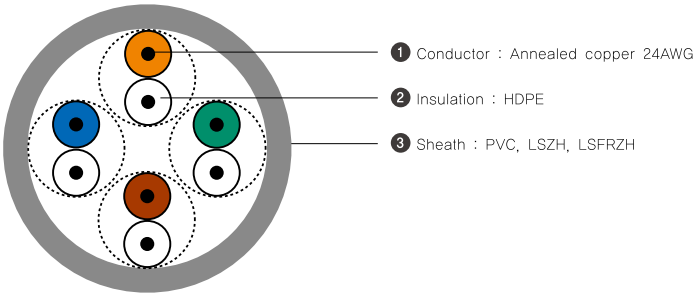
ITEM	Cable diameter (mm)	Weight (kg/305m)	Packaging type
CM/CMR	8.2	16.5	Reel
LSZH	8.2	16.5	Reel

Frequency (MHz)	Z_0(Ω)	RL (Min.dB)	IL (Max.dB/100m)	NEXT (Min.dB/100m)	PSNEXT (Min.dB/100m)	ACRF (Min.dB/100m)	PSACRF (Min.dB/100m)
1	100±15	20.0	2.0	74.3	72.3	67.8	64.8
4	100±15	23.0	3.8	65.3	63.3	55.8	52.8
8	100±15	24.5	5.3	60.8	58.8	49.7	46.7
10	100±15	25.0	6.0	58.3	57.3	47.8	44.8
16	100±15	25.0	7.6	56.2	54.2	43.7	40.7
20	100±15	25.0	8.5	54.8	52.8	41.8	38.8
25	100±15	24.3	9.5	53.3	51.3	39.8	36.8
31.25	100±15	23.6	10.7	51.9	49.9	37.9	34.9
62.5	100±15	21.5	15.4	47.4	45.4	31.9	28.9
100	100±15	20.1	19.8	44.3	42.3	27.8	24.8
200	100±15	18.0	29.0	39.8	37.8	21.8	18.8
250	100±15	17.3	32.8	38.3	36.3	19.8	16.8

Unshielded Twisted Pair Catagory 5E

Cat.5E-4P





Technical Data

·Resistance(Ω/100m, 20): Max.9.38
·Resistance Unbalance(%): Max.5.0
·Mutual Capacitance(nF/100m):Max.5.6
·Capacitance Unbalance(pF/100m):Max.330

Safety / Fire Rating Requirements

·UL 1581(CM)
·UL 1666(CMR)
·IEC60332-1/IEC60754-1/IEC60754-2/IEC61034-2(LSZH)
·IEC60332-3-24/IEC60754-1/IEC60754-2/IEC61034-2(LSFRZH)

Reference Standard

·KS C 3342
·ANSI/TIA-568-C.2
·ISO/IEC/11801
·UL 444

Application

·Horizontal cabling(100MHz)
·155Mbps ATM
·IEEE 802.3, 802.5
·Token Ring 16Mbps, Data rate 16Mbps
·100 Base-TX, 1000 Base-T

ITEM	Cable diameter (mm)	Weight (kg/305m)	Packaging type
CM/CMR	5.0	8.7	Reelex/RIB/Reel
LSZH	5.0	8.7	Reelex/RIB/Reel
LSFRZH	5.2	9.3	Reelex/RIB/Reel

Jacket Color

·GY, WT, BL, VT, OR, RD, GR, YL, BK

Frequency (MHz)	Z_0(Ω)	RL (Min.dB)	IL (Max.dB/100m)	NEXT (Min.dB/100m)	PSNEXT (Min.dB/100m)	ACRF (Min.dB/100m)	PSACRF (Min.dB/100m)
0.772	–	–	1.8	67.0	64.0	–	–
1	100±15	20.0	2.0	65.3	62.3	63.8	60.8
4	100±15	23.0	4.1	56.3	53.3	51.8	48.7
8	100±15	24.5	5.8	51.8	48.8	45.7	42.7
10	100±15	25.0	6.5	50.3	47.3	43.8	40.8
16	100±15	25.0	8.2	47.2	44.4	39.7	36.7
20	100±15	25.0	9.3	45.8	42.8	37.8	34.7
25	100±15	24.3	10.4	44.3	41.3	35.8	32.8
31.25	100±15	23.6	11.7	42.9	39.9	33.9	30.9
62.5	100±15	21.5	17.0	38.4	35.4	27.9	24.8
100	100±15	20.1	22.0	35.3	32.3	23.8	20.8

bsi.

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Taihan Cable & Solution Co.,Ltd
Dangjin Plant
870, Daehoman-ro
Godae-myeon, Dangjin-si
Chungcheongnam-do
31791
Republic of Korea

대한전선(주) 당진케이블
충청남도 당진시 고대면 대호만로
870
31791
한국

Holds Certificate No: **FM 555130**

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

The design and manufacture of electric cables including instrument cable, communication cables, data cables and copper rods, cable joint accessories and high voltage insulations.
소재, 계장용 케이블을 포함하는 전력케이블, 통신케이블, 데이터케이블, 케이블 접속재 및 고전압 절연물의 설계 및 제조

For and on behalf of BSI:

Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2009-07-14
Latest Revision Date: 2021-02-24

Effective Date: 2021-03-07
Expiry Date: 2024-03-06

Page: 1 of 2

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BSI Group Korea Limited is a subsidiary of British Standards Institution.

Appendix

System Certificate

Institute	Certificate	Certificate Number	Issue Date	Item	Type	Standard
Underwriters Laboratores Inc (USA)	UL	20181009-E352896	2018-10-9	Data Cable	CMP, Categories 5e and 6	UL 444
		20180920-E111358	2018-9-20	Data Cable	CMP, rated 75℃	UL 444 CSA-C22.2 No.214
		20160520-E352896	2016-5-20	Data Cable	CMR, CMG, CM and CMX Categories 3, 5 5E and 6	Subject 444
		20160519-E111358	2016-5-19	Data Cable	CMR, CMG, CM and CMX rated 60 or 75℃	UL 444 CAN/CSA-C22.2 No.214
		20160519-E111358	2016-5-19	Data Cable	Cable Type CMR	UL 1666 CAN/CSA-C22.2 No.214
		20160519-E111358	2016-5-19	Data Cable	Cable Type CM	UL 1685 CAN/CSA-C22.2 No.214
		20160519-E111358	2016-5-19	Data Cable	Cable Type CMX	UL 2556 CAN/CSA-C22.2 No.214
VDE (Germany)	CPR(CE)	5022628/05-1	2017-7-26	Data Cable	U/UTP CAT, 6A 4PR LSZH	UL 444
		5022628/03-1	2017-7-26	Data Cable	F/UTP CAT, 6 4PR LSZH	UL 444 CSA-C22.2 No.214
		5022628/04-1	2017-7-26	Data Cable	UTP CAT, 6 4PR LSZH	Subject 444
		5022628/02-1	2017-7-26	Data Cable	UTP CAT, 3 25PR LSZH	UL 444 CAN/CSA-C22.2 No.214
		5022628/10-1	2017-7-26	Data Cable	UTP CAT, 3 25PR PVC	UL 1666 CAN/CSA-C22.2 No.214
Telcordia Technologies (USA)	-	-	2007-10-30	Optical Fiber	Dispersion-Unshifted Low Water Peak Single-mode Optical fiber	-
SELLIHCA (NOR)	-	105210	2010-1-15	FOC, OPGW	Fiber Optic Cables and Optical Ground Wire	-

CERTIFICATE OF COMPLIANCE

Certificate Number	20181009-E352896
Report Reference	E352896-20181004
Issue Date	2018-OCTOBER-09
Issued to:	TAIHAN ELECTRIC WIRE CO LTD Taihan Smart Tower 317 Simin-daero Dongan-gu Anyang-si Gyeonggi-do 14055 KOREA
This is to certify that representative samples of	LOCAL AREA NETWORK CABLE VERIFIED FOR TRANSMISSION PERFORMANCE IN ACCORDANCE WITH NATIONAL OR INTERNATIONAL SPECIFICATIONS Communications Cable, Type CMP, also Verified to Categories 5e and 6. Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 444- Data Transmission Cable Verified in Accordance with National and International Specifications
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

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System Certificate

CERTIFICATE OF COMPLIANCE

Certificate Number	20180920-E111358
Report Reference	E111358-20180914
Issue Date	2018-SEPTEMBER-20
Issued to:	TAIHAN ELECTRIC WIRE CO LTD Taihan Smart Tower 317 Simin-daero Dongan-gu Anyang-si Gyeonggi-do 14055 Korea
This is to certify that representative samples of	COMMUNICATIONS CABLE Type CMP rated 75°C. Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 444 and CSA C22.2 No. 214, Communications Cables
Additional Information:	See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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Page 1 of 1

CLASSIFICATION REPORT
of reaction to fire for electric cables

1 Introduction

This classification report defines the classification assigned to the cable types
UTP CAT.3 25PR PVC
in accordance with the procedures given in EN 13501-6.

CLASSIFICATION OF REACTION TO FIRE FOR ELECTRIC CABLES IN ACCORDANCE WITH EN 13501-6

Sponsor:	Taihan Electric Wire Co., Ltd. 1110 Janghang-ri, Godae-myun DANG JIN-SI Chungcheongnam-do South Korea
Prepared by:	VDE Prüf- und Zertifizierungsinstitut GmbH* Merianstraße 28, 63069 Offenbach, Deutschland
Notified Body No:	0366*
Product name:	*UTP CAT.3 25PR PVC*
Classification report No:	5022628/01-1
Issue number:	1
Date of issue:	2017-07-26

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CLASSIFICATION REPORT
of reaction to fire for electric cables

1 Introduction

This classification report defines the classification assigned to the cable types
F/UTP CAT.6 4PR LSZH
in accordance with the procedures given in EN 13501-6.

CLASSIFICATION OF REACTION TO FIRE FOR ELECTRIC CABLES IN ACCORDANCE WITH EN 13501-6

Sponsor:	Taihan Electric Wire Co., Ltd. 1110 Janghang-ri, Godae-myun DANG JIN-SI Chungcheongnam-do South Korea
Prepared by:	VDE Prüf- und Zertifizierungsinstitut GmbH* Merianstraße 28, 63069 Offenbach, Deutschland
Notified Body No:	0366*
Product name:	*F/UTP CAT.6 4PR LSZH*
Classification report No:	5022628/03-1
Issue number:	1
Date of issue:	2017-07-26

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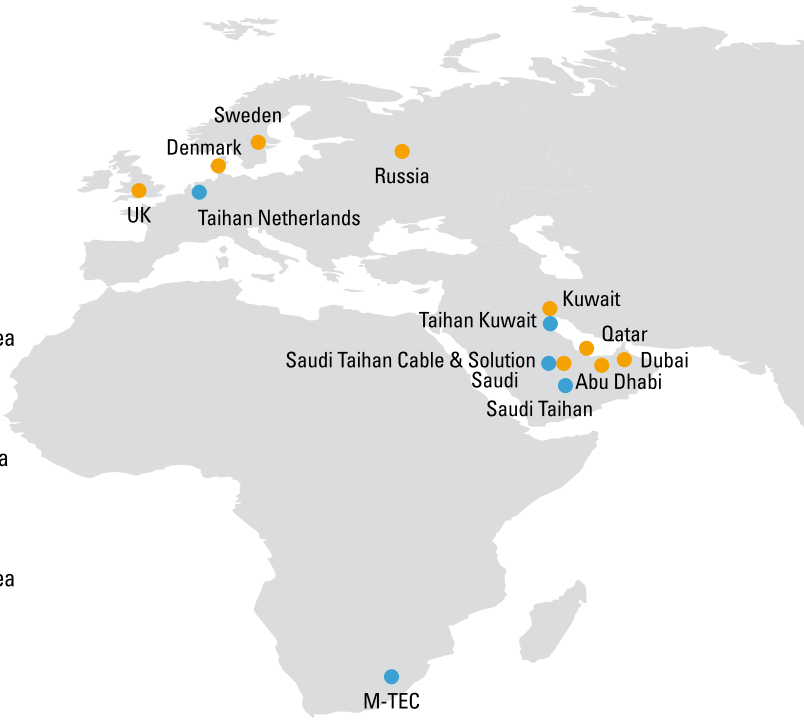
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