

ES-TECH INTERNATIONAL SOLUTION

LAN CABLE Local Area Network Cable

ES-TECH International is a technology company specialized in providing solutions for communication & Infrastructure.

Delivering proactive and proven solutions and services that help networks around the world. ES-TECH International provides solutions for broadcasting, broadband, network power and cables, especially optical/coaxial cable and comprehensive power solutions.

To keep pace with rapid changing market, ES-TECH International is expanding structured cable system/intelligence building system and network solution field by continuously developing new products through aggressive investment for R&D.

At the same time, ES-TECH International is developing new items by cooperating with Global Corporation, as well as developing its own brand to expand overseas market.

ES-TECH International will be always with you with state of the art solution which is your way to happiness.



Introduction of Business

Delivering proactive and proven solutions and services that help networks around the world, ES-TECH international for broadcasting, broadband, network power and cables, especially optical/coaxial cable and comprehensiv









Constants of the second s

Fiber Optics

Distribution Cable Breakout Cable Simplex and Duplex Drop Cable Multi Loose Tube Cable Adss Cable Ribbon Cable

Broadcasting

AV Cabling Solution SMPTE Camera Solution AV Patching Solution

Networking

BDN cabling solution HFC Network solution Network Consulting

Cables

Coax Cable UTP Cable Coaxial Connector



ES-TECH INTERNATIONAL





Power Supply

Square Wave UPS/PS Sine Wave UPS/PS Rack UPS APD STS AVR

Broadband

FTTX Infra Structured FTTH Solution Device & Equipment

Telco

DATA Center Core Networks Mobile Networks Microwave Technology

Company Infomation

ES-TECH international specialized in providing broadcasting, communication, electronic solution.

ES-TECH international specialized in providing broadcasting, communication, electronic solution.

ES-TECH international provides most essential products which used in broadcasting & communication network service such as broad casting solution, broadband solution, power supply, network solution, cable solution etc.

To keep pace with rapid changing market, ES-TECH international is expanding structured cable system/intelligence building system and network solution field by continuously developing new products through aggressive investment for R&D.

Also developing new items by cooperating with Global Corporation, at the same time developing our own brand to expand overseas market.

ES-TECH international will do our best to provide best solutions & products to our customers.

Vision

Company can last longer than 100 years

To provide superior quality consulting, services, and products that enable momentous improvements to our customers. We are committed to being the best through our professionalism and by keeping the interests of our clients first. We strive to develop innovative technology and fulfill our customers' needs.

Mission statements

- 01_To continuously create customers value for the next 100 years.
- 02_ continuously find a growing industry, as well as to improve business ability for all business area.
- 03_To create new markets by adopting globalization.
- 04_To form a challenging & creative company culture by demonstrating innovative & creative thinking.



Company History

The below is the footprint of ES-TECH international



Company Scene



Product Line



Product Line



Product Cables





2017

Certification of "World-class product" from Ministry of Industry and Trade on Uninterruptible Power Supply for communication. Nominated as a Military Service Designated Company (Industry) by Military Manpower Administrations.

2016

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

Expand further for fiber optic cable / Launched ESCABLE brand Verification of greenhouse gas inventory. (carbon management system ISO14064)

2014

Selected the best company to work for by SMBA (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 best small & medium business to work for Selected as 'a venture business' by small & medium business administration. Awarded design award by Gyonggi province governor.

2010

Developed STS Developed ground mount enclosure Achieved the patent of 'dual power distribution equipment'. Achieved the patent for rack type server system power distribution equipment

2008

Developed CATV line UPS of SUN & MOON series. Developed small sized power supply for apartment building. Obtained 'annex research institute certification' by KOITA Obtained 'Innobiz certification' by small & medium business administration.

2007

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

2005

Converted to corporation (ES-TECH international Inc.) Developed APT (Auto Power Distributor)

2004

Developed CATV line UPS

2002 ES TECH NOLOGY was founded

Contents

Introduction of product

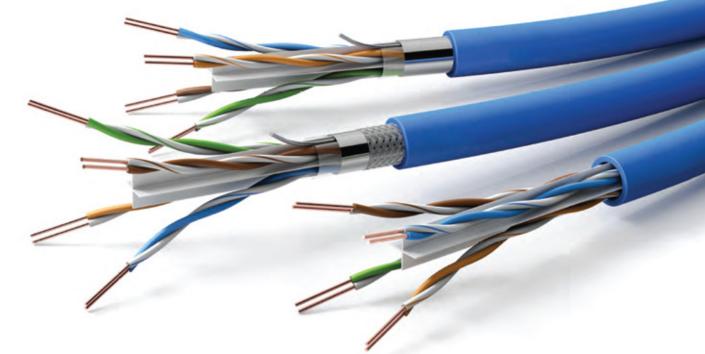
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4 Paris cable Local area network cable

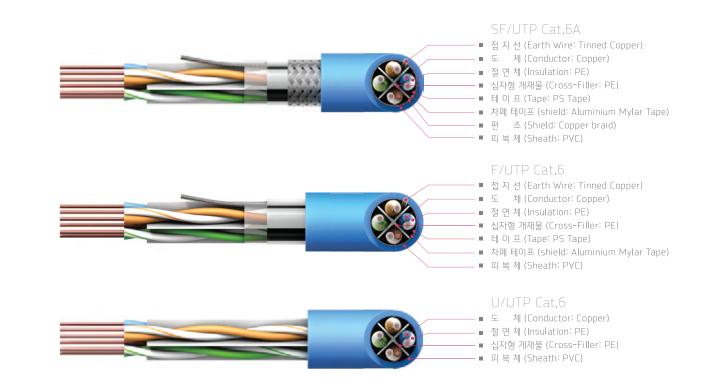
SF/UTP Cat.6A, F/UTP Cat.6, U/UTP Cat.6

음성 및 데이터 전송용 케이블로 고속 신호 전송능력을 필요로 하는 옥내 수평 및 간선 배선망에 사용.

Suitable for the horizontal indoor or indirect election cable requiring the electric transmission of the sound and data with high speed.



Detail View



구 분 Item	페 어 수 Number of Pairs	도 체 경 Nominal Diameter of Wire (mm)	외 경(약) Approx, Overall Diameter (mm)	중 량(약) Approx, Weight (kg/km)	표 준 조 장 Standard Length	포 장 Packaging
SF/UTP Cat.6A		0,55	8,5	14.0		Box or Reel
F/UTP Cat.6	4	0.55 (23 AWG)	7.0	12,2	300m or 1000ft	
U/UTP Cat.6	(L) AWG)	6,5	12,0		L	

4 Pairs cable SF/UTP Cat.6A, F/UTP Cat.6, U/UTP Cat.6

— 난연등급: CM기준 — AWG: American Wire Gauge

competitiveness of $\ensuremath{\mathsf{ES}}\xspace - \ensuremath{\mathsf{TECH}}\xspace$

적용규격

- ANSI / EIA / TIA-568,C - ISO / IEC 11801 - UL 444 - KS C 3342



- UL 1666 (CMR) - IEC 60754, 61034(LSZH)

ES-TECH

주 파 수 Frequency (MHz)	<mark>입력임피던스</mark> Input Impedance (Ohms)	특성임피던스 Characteristic Impedance (Ohms)	반사손실 Return Loss(dB) Min,	감쇄량 Attenuatopn (dB/100m) Mix,	근단누화 NEXT(dB) Min,	근단누화전력합 PSNEXT (dB/100m) Min,	원단누화 ELFEXT (dB/100m) Min,	원단누화전력합 PSELFEXT (dB/100m) Min,		
1	100±15	100±6	19.0	2,0	74,3	72,3	67,8	64,8		
4	100±15	100±6	21,4	3.8	65.3	63,3	55,7	52.7		
8	100±15	100±6	22,6	5,4	60,8	58,8	49.7	46.7		
10	100±15	100±6	23,0	6,0	59,3	57,3	47.8	44.8		
16	100±15	100±6	23,0	7.7	56.3	54.3	43.7	40.7		
20	100±15	100±6	23,0	8,6	54,8	52,8	41.7	38,7		
25	100±15	100±6	22,3	9,6	53,3	51,3	39,8	36,8		
31.25	100±15	100±6	21,6	10,8	51,9	49.9	37,9	34.9		
62.5	100±15	100±6	19,5	15,7	47.4	45.4	31,8	28,8		
100	100±15	100±6	18,1	20,2	44.3	42,3	27,8	24.8		
125	100±22	100±6	17,4	22,9	42,9	40,9	25,8	22,8		
155,52	100±22	100±6	16,8	22,8	41.4	39.4	23,9	20.9		
175	100±22	100±6	16,4	27,6	40.7	38,7	22,9	19.9		
200	100±22	100±6	16,0	29,8	39,8	37,8	21,7	18.7		
250	100±32	100±6	15,3	33.8	38,3	38,3	19,8	16,8		

4 Pairs cable SF/UTP Cat.6A, F/UTP Cat.6, U/UTP Cat.6

😑 U/UTP Cat.6. 4P 기준 데이터, 옥내 수평 및 중심회선에만 적용. (Based on U/UTP Cat.6. Applicable for horizontal and backbone cables only)

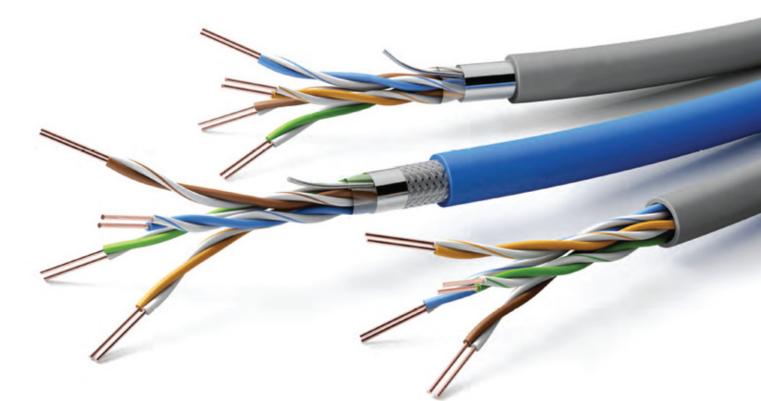


4 Paris cable Local area network cable

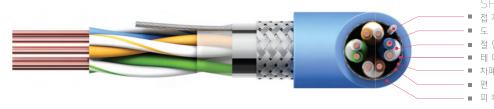
SF/UTP Cat.5E, F/UTP Cat.5E, U/UTP Cat.5E

음성 및 데이터 전송용 케이블로 옥내 수평 및 간선 배선망에 사용.

Suitable for the horizontal indoor or indirect election cable requiring the electric transmission of the sound and data.



Detail View







SF/UTP Cat.5E

- 접 지 선 (Earth Wire: Tinned Copper)
- 도 체 (Conductor: Copper)
- 절 연 체 (Insulation: PE)
- 테이프 (Tape: PS Tape)
- 차폐 테이프 (shield: Al/Mylar Tape)
- 편 조 (Shield: Copper braid)
 - 피 복 체 (Sheath: PVC)

F/UTP Cat,58

- 접 지 선 (Earth Wire: Tinned Copper)
- 도 체 (Conductor: Copper)
- 절 연 체 (Insulation: PE)
- 테이프 (Tape: PS Tape)
- 차폐 테이프 (shield: Al/Mylar Tape)
- 피복체(Sheath: PVC)

U/UTP Cat.5E

- 도 체 (Conductor: Copper)
- ■ 절 연 체 (Insulation: PE)
- 피복체(Sheath: PVC)

구 분 Item	폐어수 Number of Pairs	도 체 경 Nominal Diameter of Wire (mm)	외 경(약) Approx. Overall Diameter (mm)	중 량(약) Approx, Weight (kg/km)	표 준 조 장 Standard Length	포 장 Packaging
SF/UTP Cat.5E		0,50	7,0	18		
F/UTP Cat.5E	4	(24 AWG)	6.0	15	300m or 1000ft	Box or Reel
U/UTP Cat.5E		5.0	10			

✓ 4 Pairs cable SF/UTP Cat.5E, F/UTP Cat.5E, U/UTP Cat.5E

— 난연등급: CM기준 — AWG: American Wire Gauge

competitiveness of ES - TECH

적용규격

- ANSI / EIA / TIA–568.C – ISO / IEC 11801
- ISU / IEU 11801 - UL 444
- KS C 3342



ES-TECH

주 파 수 Frequency (MHz)	반사손실 Return Loss(dB) Min,	감쇄량 Attenuatopn (dB/100m) Mix,	근단누화 NEXT(dB) Min.	근단누화전력합 PSNEXT (dB/100m) Min,	원단누화 ELFEXT (dB/100m) Min,	원단누화전력합 PSELFEXT (dB/100m) Min,		
0,772	19.0	1,8	67.0	64.0	66,0	63,0		
1	20,0	2,0	65,3	62,3	63,8	60,8		
4	23.0	4.1	56,3	53,3	51.7	48.7		
8	24.5	5.8	51,8	48.8	45.7	42.7		
10	25.0	6.5	50.3	47.3	43.8	40.8		
16	25.0	8.2	47.3	44.3	39.7	36.7		
20	25.0	9,3	45.8	42.8	37.7	34.7		
25	24.3	10,4	44.3	41.3	35.8	32.8		
31.25	23.6	11.7	42.9	39.9	33.9	30.9		
62.5	21,5	17.0	38.4	35.4	27.8	24.8		
100	20.1	22.0	35.3	32.3	23.8	20.8		

4 Pairs cable SF/UTP Cat.5E, F/UTP Cat.5E, U/UTP Cat.5E

— U/UTP Cat.6. 4P 기준 데이터, 옥내 수평 및 중심회선에만 적용. (Based on U/UTP Cat.6. Applicable for horizontal and backbone cables only)

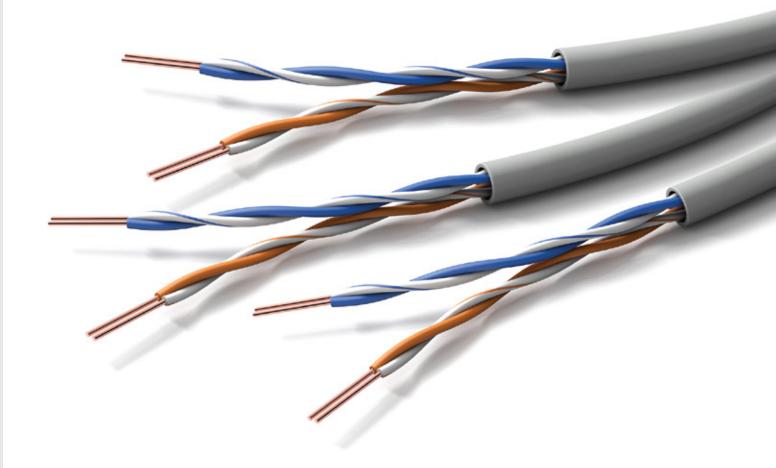


2 Paris cable Local area network cable

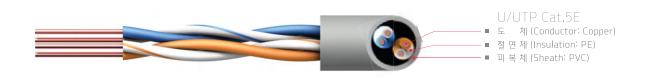
U/UTP Cat.5E

음성 및 데이터 전송용 케이블로 옥내 수평 및 간선 배선망에 사용.

Suitable for the horizontal indoor or indirect election cable requiring the electric transmission of the sound and data.



Detail View



2 Pairs cable U/UTP Cat.5E

구 분 Item	페 어 수 Number of Pairs	도 체 경 Nominal Diameter of Wire (mm)	외 경(약) ^{Approx,} Overall Diameter (mm)	중 량 (약) Approx, Weight (kg/km)	표 준 조 장 Standard Length	포 장 Packaging
U/UTP Cat.5E	2	0.50 (24 AWG)	4.5	6	300m or 1000ft	Box

— 난연등급: CM기준 — AWG: American Wire Gauge

competitiveness of ES - TECH

적용규격 - ANSI / EIA / TIA-568.C - ISO / IEC 11801 - UL 444 - KS C 3342



- UL 1581 (CMX, CM) - UL 1666 (CMR) - IEC 60754, 61034(LSZH)



2 Pairs cable U/UTP Cat.5E

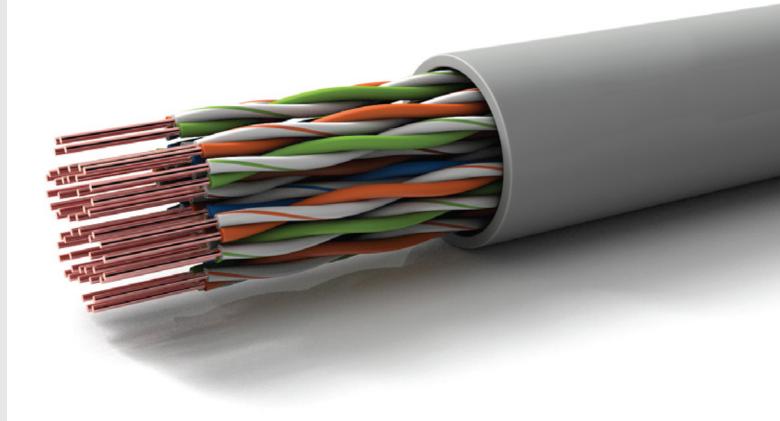
주 파 수 Frequenct (MHz)	반사손실 Return Loss(dB) Min,	감쇄량 Attenuatopn (dB/100m) Mix,	근단누 화 NEXT(dB) Min,
0.772	-	1.8	64
1	23	2,0	62
4	23	4.1	53
8	23	5.8	48
10	23	6.5	47
16	23	8.2	44
20	23	9.3	42
25	22	10,4	41
31,25	21	11.7	39
62,5	18	17.0	35
100	16	22.0	32



Multi-Paris cable Local area network cable

Cat.5E (25P), Cat.5 (25P~128P)

음성 및 데이터 전송용 케이블로 옥내 수평 및 간선 배선망에 사용. Suitable for the horizontal indoor or indirect election cable requiring the electric transmission of the sound and data.



Detail View



구 분 Item	페어수 Number of Pairs	도 체 경 Nominal Diameter of Wire (mm)	외 경(약) ^{Approx,} Overall Diameter (mm)	중 량 (약) Approx, Weight (kg/km)	포 장 Packaging
Cat.5E	25	0.5mm(24 AWG)	13.0	200	
Cat.5	50	0.5mm(24 AWG)	20,0	380	Drum
Cat.5	100	0.5mm(24 AWG)	26.0	810	Brain
Cat.5	128	0.5mm(24 AWG)	28,0	900	

Multi-pairs cable Cat.5E (25P), Cat.5 (25P~128P)

— 난연등급: CM기준 — AWG: American Wire Gauge

competitiveness of ES - TECH

적용규격

- ANSI / EIA / TIA-568,C - ISO / IEC 11801 - UL 444 - KS C 3342



- IEC 60754, 61034(LSZH)

ES-TECH INTERNATIONAL

Multi-pairs cable Cat.5E (25P), Cat.5 (25P~128P)

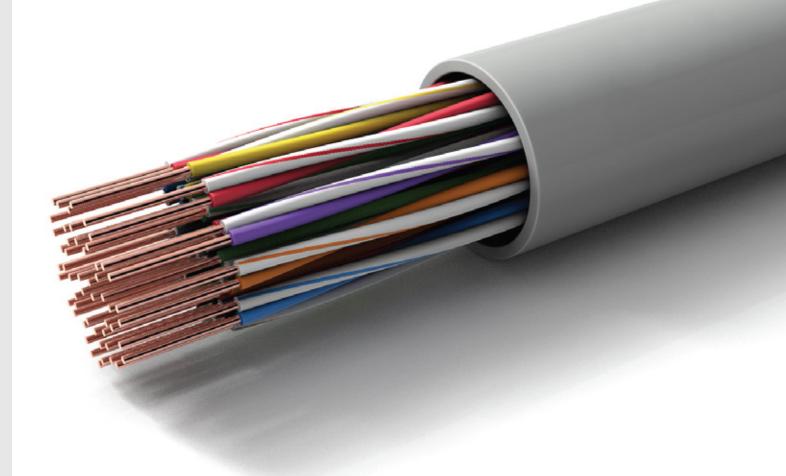
주 파 수 Frequency (MHz)	반사손실 Return Loss(dB) Min,	감쇄량 Attenuatopn (dB/100m) Mix,	근단누화 NEXT(dB) Min,
0,772	-	1.8	64
1	23	2,0	62
4	23	4.1	53
8	23	5.8	48
10	23	6.5	47
16	23	8.2	44
20	23	9,3	42
25	22	10,4	41
31,25	21	11.7	39
62,5	18	17.0	35
100	16	22,0	32



Multi-Paris cable Local area network cable

Cat.3 (25P ~ 200P)

음성 및 데이터 전송용 케이블로 옥내 수평 및 간선 배선망에 사용. Suitable for the horizontal indoor or indirect election cable requiring the electric transmission of the sound and data.



Detail View



Multi-pairs cable Cat.3 (25P~200P)

구 분 Item	페어수 Number of Pairs	도 체 경 Nominal Diameter of Wire (mm)	외 경(약) ^{Approx,} Overall Diameter (mm)	중 량 (약) Approx, Weight (kg/km)	포 장 Packaging
	25	0.5mm(24 AWG)	12	170	
	50	0.5mm(24 AWG)	14	300	
	75	0.5mm(24 AWG)	16	450	
Cat.3	100	0.5mm(24 AWG)	21	570	Drum
	150	0.5mm(24 AWG)	25	800	
	175	0.5mm(24 AWG)	27	900	
	200	0.5mm(24 AWG)	29	1050	

— 난연등급: CM기준 — AWG: American Wire Gauge

competitiveness of ES - TECH

적용규격

- ANSI / EIA / TIA-568,C - ISO / IEC 11801 - UL 444 - KS C 3342 난연등급 - UL 1581 (CMX, CM) - UL 1666 (CMR) - IEC 60754, 61034(LSZH)

ES-TECH INTERNATIONAL

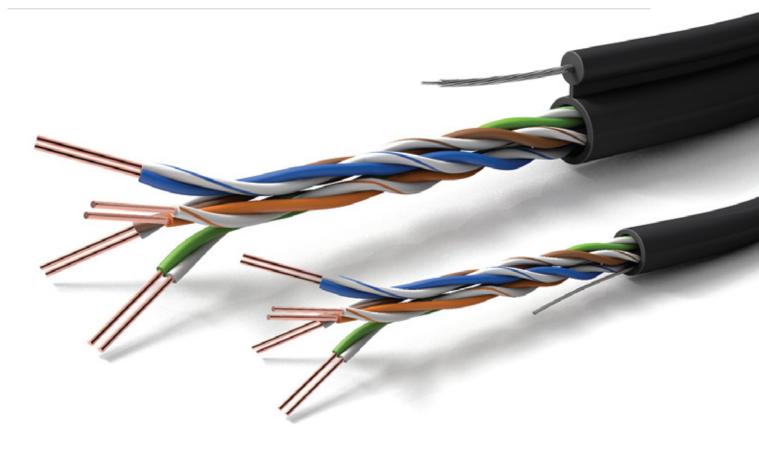
Multi-pairs cable Cat.3 (25P~200P)

주 파 수 Frequency (MHz)	<mark>반사손실</mark> Return Loss(dB) Min,	감쇄량 Attenuatopn (dB/100m) Mix,	근단누화 NEXT(dB) Min.
0,772	-	2.2	43
1	12	2.6	41
4	12	5.6	32
8	12	8.5	27
10	12	9.7	26
16	12	13,1	23

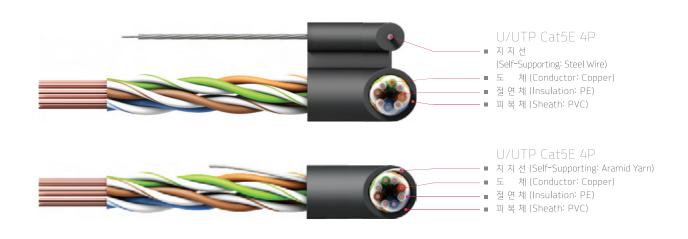


Outdoor LAN cable

옥외 A형 4P (U/UTP 4P with self-supported for outdoor use) 옥외 B형 4P (U/UTP 4P without self-supported for outdoor use)

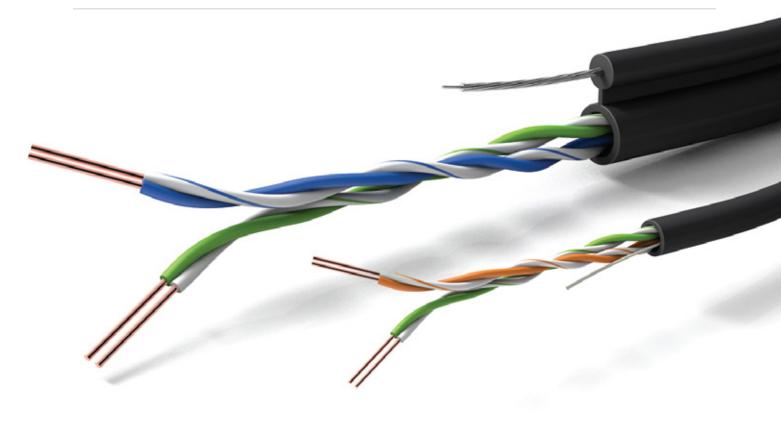


Detail View

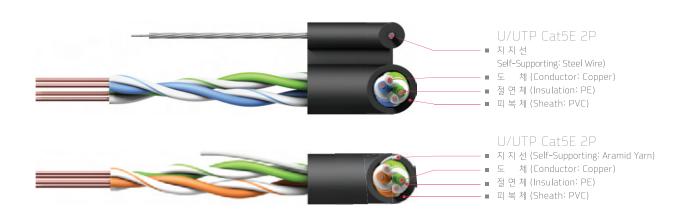


Outdoor Lan cable

옥외 A형 2P (U/UTP 2P with self-supported for outdoor use) 옥외 B형 2P (U/UTP 2P without self-supported for outdoor use)



Detail View





Outdoor Lan cable U/UTP (CAT.5E 4P, 2P)

구 분 Item	페어수 Number of Pairs	도 체 경 Nominal Diameter of Wire (mm)	외 경(약) Approx, Overall Diameter (mm)	중 량(약) Approx, Weight (kg/km)	포 장 Packaging
	1		4.0×7.3	9	
LAN-CAT.5E/CM	2	24 AWG	4.5×7.3	11	Box
	4		6.0×7.3	15	

— KT 인증 — 피복색상 : 흑색 (Color of Sheath: Black)

competitiveness of ES - TECH

적용규격

- ANSI / EIA / TIA-568,C
- **-** ISO / IEC 11801
- **-** UL 444
- - KS C 3342

난연등급 - UL 1581 (CMX, CM) - UL 1666 (CMR) - IEC 60754, 61034(LSZH)

Outdoor Lan cable U/UTP (CAT.5E 4P, 2P)

주 파 수 Frequency (MHz)	반사손실 Return Loss(dB) Min,	<mark>감쇄량</mark> Attenuatopn (dB/100m) Mix,	근단누화 NEXT(dB) Min,	근단누화전력합 PSNEXT (dB/100m) Min,	원단누화 ELFEXT (dB/100m) Min,	원단누화전력합 PSELFEXT (dB/100m) Min,
0,772	-	1.8	67.0	64.0	66,0	63.0
1	20,0	2,0	65,3	62,3	63,8	60,8
4	23.0	4.1	56,3	53,3	51.7	48.7
8	24.5	5.8	51,8	48.8	45.7	42.7
10	25.0	6.5	50.3	47.3	43.8	40.8
16	25.0	8,2	47.3	44.3	39.7	36.7
20	25.0	9,3	45.8	42.8	37.7	34.7
25	24,3	10.4	44.3	41.3	35,8	32.8
31,25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21,5	17.0	38.4	35.4	27,8	24.8
100	20,1	22,0	35,3	32,3	23,8	20,8

Company Information

ES-TECH international is specialized in providing broadcasting, communication, electronic solutions.

ES-TECH international specialized in providing communication and infrastructure solutions for better life of humans. ES-TECH international provides a variety of fiber optic solutions and industrial power supply solutions over worldwide wire and wireless communication markets.

To keep pace with rapid changing market, ES-TECH international is expanding structured cable system/intelligence building system and network solution field by continuously developing new products through aggressive investment for R&D.

Developing better products in cooperating with global corporations in order to offer customized solutions for customer satisfaction is our primary.

ES-TECH international will be always with you with state of the art solution which is your way to happiness.



INTERNATIONAL

Sugger.

Company Products



Fiber Optics Cable



Coaxial Cable



SUN UPS Series



Rack Mount UPS



PSM Series



Feeder Cable



- Descher Frederic



Indoor Passive Equipments Outdoor Passive Equipments



Connectors





Optical Devices

1

Indoor Amplifer

LAN Cable

CONNECTING THE POWERED LIFE

Communication & Infrastructure



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