

FEYNMAN[®]
CABLE

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CABLE

Ningbo Feynman Cable Co.,Ltd

**Address: No.9, Binhaisan Road, Hangzhou
bay new zone, Ningbo, Zhejiang province,
China 315336**

Tel: +86-574 8235 5050

Fax: +86-574 8235 5049

Email: sale@feynmancable.com

<http://www.feynmancable.com>

**NINGBO FEYNMAN
CABLE**



Ningbo Feynman Cable Co., Ltd



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Ningbo Feynman Cable Co., Ltd. founded in 2003, located in National high-tech industrial areas-Ningbo Hangzhou Bay New Zone, is a high-tech enterprise specialized in R&D and manufacturing information transmission cable and system component integration. After more than 10 years of development, Feynman becomes one of the leading manufactures of electronic wire and cable in China, providing OEM services to world-renowned brands.

Production Capacity:

- √ Feynman leading products are pure coppers based lan cable and patch cord
- √ Feynman keeps up with technological changes, continuously optimizes product structures, and continuously develops new cables combining with industrial and medical, railway, smart home and high-end consumer electronics to meet the needs of world-renowned brands for different products
- √ Introduce advanced professional production equipment to ensure the quality needs of high leveled customers
- √ Self-designed refrigeration control appliance for workshop, provides operators a comfortable working environment during the high temperature season, and also ensures all the machines production stability.
- √ To ensure the new product research, product quality and high productivity, Feynman build R&D department, professional testing laboratory with completed testing equipment, including on-line monitoring systems, Network analyzer, Portable network tester Fluke、 Vertical burning tester, ect.
- √ Feynman establish a comprehensive management system and approved by the third party ISO900、 14001、 18000 system certification

Management Philosophies:

- √ “Active innovation, Mutual benefit and Win-Win” is the business policy of Feynman. Facing the change of the industrial environment and rapid development of the technologies, we believe that we can win the support and trustworthiness from our clients through firmly standing by our business policy.
- √ “Being Honest and Trustworthy, Diligent and Steadfast” is the basic working principle of Feynman, requiring sincerely treatment to customers and colleagues, and believing in words and act in words, whatever we do should be earnest and down to earth, taking the responsibility to everything.
- √ “Treasure every service opportunity and accomplish it at the first time” is the service guideline for customers of Feynman. It requires to welcome customers warmly and to know the needs of customers, and constantly strive to meet the needs of customers, cherish every service opportunity and do the best.

Company certification:

- √ Performance Certification: Approved ETL, CE, DELTA Certificate
- √ Safety Certification: Approved UL, CPR Certificate
- √ Management Certification: Approved ISO90001, 14001, 18000 System Certification

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Ningbo City
Hangzhou Bay New Zone



36600 m² +
Factory Area



28500 m² +
Plant Area



3



TANDEM LINES



TWIST PAIR MACHINE



CABLING LINES



SHEATHING EXTRUSION

4

Certificate



UL is the abbreviation of Underwriter Laboratories Inc. UL safety testing institute is the most authoritative institution in the United State, and it's one of the largest non-governmental organization in the world for the safety testing and identification. It is an independent, profitable and professional safety test institution for public.

Dozens of Feynman cables apply with UL certification, and the UL mark is displayed on the related products pages.



ETL is the most dynamic safety certification in North America, which could date back to the electrical test laboratory created by Tomas Edison in 1896, it has a wide range of visibility and recognition in North America. The ETL mark is the exclusive mark of Intertek which is the world's leading quality and safety agency. The products represented by the ETL mark meet the mandatory standards of North America and can be successfully sold in the North American market.

Dozens of Feynman cables apply with ETL certification, and the ETL mark is displayed on the related products pages.



The DELTA laboratory is a world-renowned product performance testing and certification center in Denmark which does testing and certifies for OEM manufactories.

Dozens of Feynman cables apply with DELTA certification, and the DELTA mark is displayed on the related products pages.

CPR

CPR was a new building product regulation issued by the European Union on March 9th, 2011, replacing the old Building Products Directive (89106EEC-CPD). EU informed CPR would enter the enforcement phase in July 2013. In June 2016, the harmonized standard EN50575 had come into effect. The transition period was one year. That is, all the wires installed in the building should be in compliance with the CPR directive (the EN50575 standard) from Jul, 2017. Therefore, Cable manufacturers must pass CPR certification.

Dozens of Feynman cables apply with CPR certification, and the CPR mark is displayed on the related products pages.



RoHS is the abbreviation of «the Restriction of the use of certain hazardous substances in electrical and electronic equipment» . It is the prevention of components in electrical and electronic equipment. The materials contain substances that are prohibited from being used in environmental management substances, and plans to abolish substances and reduce the mixing and use of substances (hazardous substances). Protect the earth's environment and mitigate the deteriorating impact on the ecosystem, protect human health, and safeguard the sustainable and healthy development of human society.

Feynman's cables not only meet ROHS standards, but also have professional analyzers for ROHS testing of raw materials and products, and the ROHS mark is displayed on the related products pages.



“Registration, Evaluation, Authorization and Restriction of Chemicals” This is the EU's normative regulation for the prevention of all chemicals entering its market, and is officially implemented on June 1st, 2017

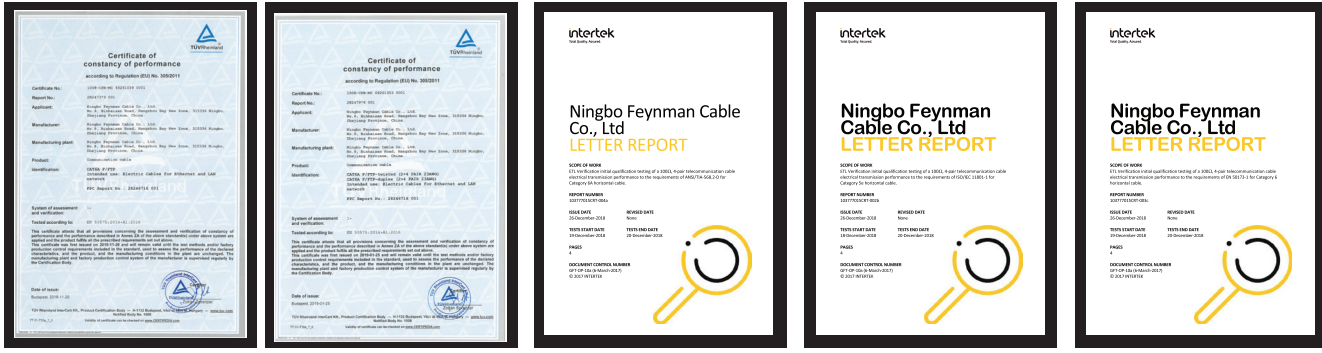
The REACH mark is displayed on the related products pages.



In the EU market, the “CE” standard is a compulsory certification mark. Whether it is a product produced by an enterprise within the EU or a product produced by another country, in order to freely circulate in the EU market, a “CE” mark must be attached to indicate the product. It meets the basic requirements of the EU Directive on Technology Coordination and Standardization. This is a mandatory requirement for products in EU law.

The CE mark is displayed on the related products pages.

Certificate





Fluke Tester



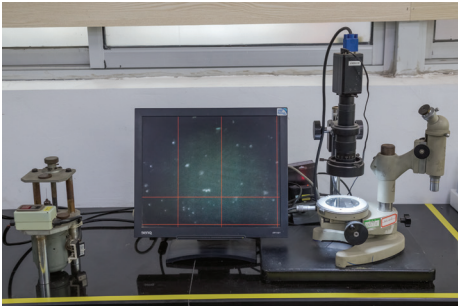
CTS Network Analyzer



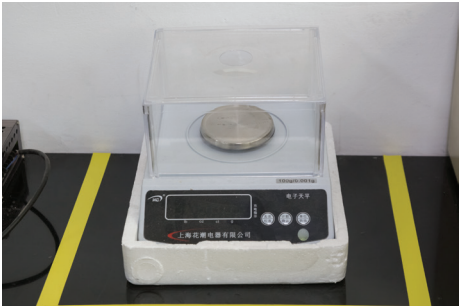
High Frequency Network Analyzer



Insulation Resistance Tester



Eccentric Tester



Electronic Balance



UV Tester



Burning test machine



Thickness Tester

CAT 8 4PAIR S/FTP CABLE	09-10
CAT 7A 4PAIR S/FTP CABLE	11-12
CAT 7 4PAIR S/FTP CABLE	13-14
CAT 6A 4PAIR S/FTP CABLE	15-16
CAT 6A 4PAIR F/FTP CABLE	17-18
CAT 6A 4PAIR U/FTP CABLE	19-20
CAT 6A 4PAIR U/UTP CABLE	21-22
CAT 6A 4PAIR OUTDOOR U/UTP CABLE	23-24
CAT 6 4PAIR F/UTP CABLE	25-26
CAT 6 4PAIR U/UTP CABLE	27-28
CAT 6 4PAIR OUTDOOR U/UTP CABLE	29-30
CAT 6 4PAIR DOUBLE-JACKET OUTDOOR U/UTP CABLE	31-32
CAT 5E 4PAIR SF/UTP CABLE	33-34
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CAT 3 MULTI PAIR UTP CABLE	43-44
CAT 6A PATCH CORD-S/FTP	45-46
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CAT 6 PATCH CORD-UTP	51-52
CAT 6 PATCH CORD-F/UTP	53-54
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CAT 5E PATCH CORD-F/UTP	57-58

FEYNMAN Solid Cable

CAT 8 4PAIR S/FTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2-1 , ANSI/TIA 568.2.D ,
ISO / IEC 11801-1 , IEC 61156-9 , EN50288-4-1

Application

- 100 BASE-Tc

100 BASE-TX

100VG-AnyLAN

1000 BASE-T

1000 BASE-TX
- 155 Mbps ATM

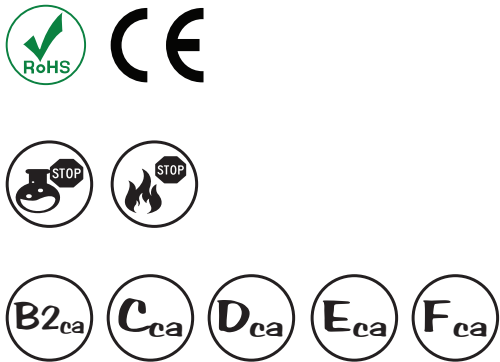
622 Mbps ATM

10GB ETHERNET

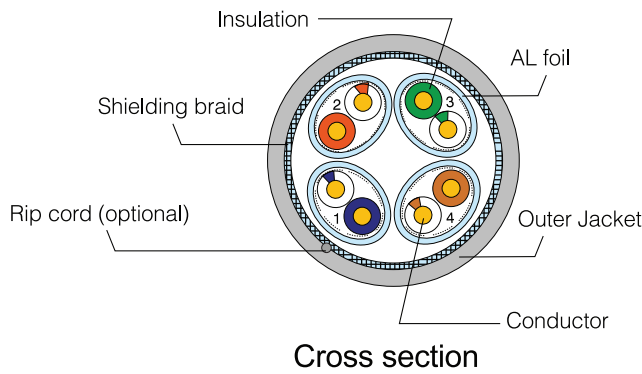
25GB BASE-T

40GB BASE-T

Characteristics



Product Structure Diagram



Product Structure

Product Name	CAT 8 4PAIR S/FTP CABLE
Conductor	22AWG
Number Of Pairs	4
Nominal Conductor Dimension	0.63±0.02mm
Insulation Material	Skin-Foam-Skin
Nominal Insulation Dimension	1.60±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown
Individual Shield&Material	AL Foil
Outer Shield&Material	Braided Wire
Drain Wire	No
Outer Jacket Material	PVC/LSZH
Ripcord	Optional
Nominal Cable Diameter	8.50±0.30mm

Electrical Charateristics

F (MHz)	Attenuation (dB/30m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/30m)	PSACR-F (dB/30m)	Return Loss (dB)
1	1,12	78,0	75,0	570	78	75	20,0
4	1,12	78,0	75,0	552	78	75	23,0
8	1,57	78,0	75,0	547	78	75	24,5
10	1,75	78,0	75,0	545	78	75	25,0
16	2,20	78,0	75,0	543	76,5	73,5	25,0
20	2,46	78,0	75,0	542	74,6	71,6	25,0
25	2,75	78,0	75,0	541	72,6	69,6	25,0
31,25	3,08	78,0	75,0	540	70,7	67,7	25,0
62,5	4,37	78,0	75,0	539	64,7	61,7	23,6
100	5,56	75,4	72,4	538	60,6	57,6	22,2
200	7,94	70,9	67,9	537	54,6	51,6	20,1
250	8,92	69,4	66,4	536	52,6	49,6	19,4
300	9,81	68,2	65,2	536	51,1	48,1	18,9
400	11,40	66,4	63,4	536	48,6	45,6	18,0
500	12,83	64,9	61,9	536	46,6	43,6	17,3
600	14,13	63,7	60,7	535,5	45,0	42,0	16,8
1000	18,58	60,4	57,4	535,1	40,6	37,6	15,2
1500	23,17	57,8	54,8	534,9	39,1	34,1	14,0
2000	27,15	55,9	52,9	534,8	34,6	31,6	13,1

Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	10 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-B2ca/Cca/Dca/Eca/Fca

FEYNMAN Solid Cable

CAT 7A 4PAIR S/FTP CABLE

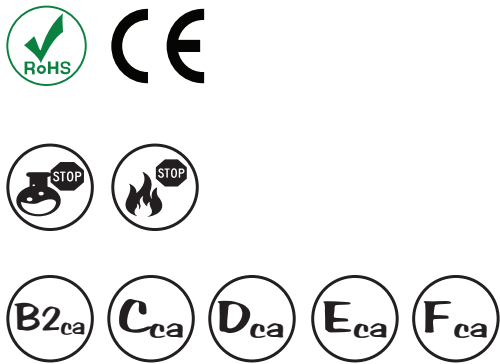
Standards

UL Subject 444,ANSI/TIA 568C.2 ,
ISO / IEC 11801-1 , IEC 61156-5

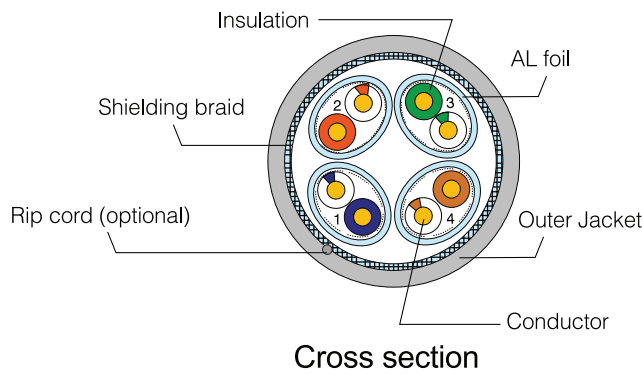
Application

- 100 BASE-Tc
- 155 Mbps ATM
- 100 BASE-TX
- 622 Mbps ATM
- 100VG-AnyLAN
- 10GB ETHERNET
- 1000 BASE-T
-
- 1000 BASE-TX

Characteristics



Product Structure Diagram



Product Structure

Product Name	CAT 7A 4PAIR S/FTP CABLE
Conductor	23AWG
Number Of Pairs	4
Nominal Conductor Dimension	0.57±0.02mm
Insulation Material	Skin-Foam-Skin
Nominal Insulation Dimension	1.40±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown
Individual Shield&Material	AL Foil
Outer Shield&Material	Braided Wire
Drain Wire	YES
Outer Jacket Material	PVC/LSZH
Ripcord	Optional
Nominal Cable Diameter	7.50±0.30mm

Electrical Charateristics

F (MHz)	Attenuation (dB/30m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/30m)	PSACR-F (dB/30m)	Return Loss (dB)
1	-	78,0	75,0	570	78	75	20,0
4	3,75	78,0	75,0	552	78	75	23,0
8	5,22	78,0	75,0	547	77,2	74,2	24,5
10	5,82	78,0	75,0	545	75,3	72,3	25,0
16	7,32	78,0	75,0	543	71,2	68,2	25,0
20	8,21	78,0	75,0	542	69,3	66,3	25,0
25	9,18	78,0	75,0	541	67,3	64,3	24,3
31,25	10,26	78,0	75,0	540	65,4	62,4	23,6
62,5	14,57	78,0	75,0	539	59,4	56,4	21,5
100	18,53	75,4	72,4	538	55,3	52,3	20,1
200	26,47	70,9	67,9	537	49,3	46,3	18,0
250	29,73	69,4	66,4	536	47,3	44,3	17,3
300	32,69	68,2	65,2	536	45,8	42,8	17,3
400	38,01	66,4	63,4	536	43,3	40,3	17,3
500	42,76	64,9	61,9	536	41,3	38,3	17,3
600	47,01	63,7	60,7	535.5	39,7	36,7	17,3
800	54,92	61,9	58,9	535,3	37,2	34,2	17,3
1000	61,93	60,4	57,4	535,1	35,3	32,3	17,3

Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	8 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-B2ca/Cca/Dca/Eca/Fca

FEYNMAN Solid Cable

CAT 7 4PAIR S/FTP CABLE

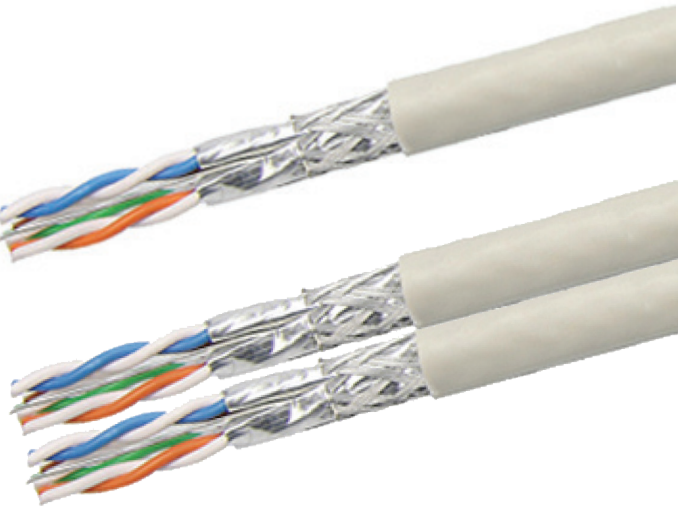
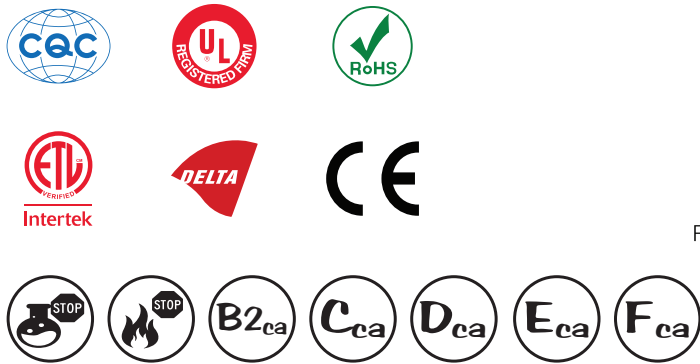
Standards

UL Subject 444,ANSI/TIA 568C.2 , ISO / IEC 11801,
IEC 61156-5, YD/T1019-2013,EN50288-4-1

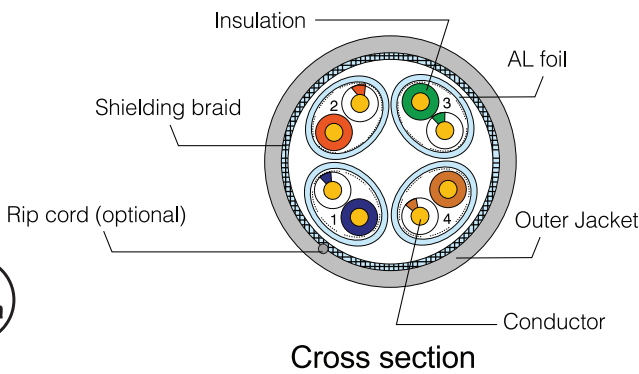
Application

100 BASE-Tc 155 Mbps ATM
100 BASE-TX 622 Mbps ATM
100VG-AnyLAN 10GB ETHERNET
1000 BASE-T
1000 BASE-TX

Characteristics



Product Structure Diagram



Product Structure

Product Name	CAT 7 4PAIR S/FTP CABLE	CAT 7 8PAIR S/FTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Skin-Foam-Skin	Skin-Foam-Skin
Nominal Insulation Dimension	1.38±0.05mm	1.40±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Individual Shield&Material	AL Foil	AL Foil
Outer Shield&Material	Braided Wire	Braided Wire
Drain Wire	No	No
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	7.50±0.30mm	(7.50±0.30) X (15.30±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	-	78,0	75,0	-	78	75	-
4	3,7	78,0	75,0	552	78	75	23,0
8	5,2	78,0	75,0	547	75,9	72,9	24,5
10	5,9	78,0	75,0	545	74	71,0	25,0
16	7,4	78,0	75,0	543	69,9	66,9	25,0
20	8,3	78,0	75,0	542	68	65	25,0
25	9,3	78,0	75,0	541	66	63	24,3
31,25	10,4	78,0	75,0	540	64,1	61,1	23,6
62,5	14,9	75,5	72,5	539	58,1	55,1	21,5
100	19,0	72,4	69,4	538	54	51,0	20,1
200	27,5	67,9	64,9	537	48	45	18,0
250	31,0	66,4	63,4	536	46	43	17,3
300	34,2	65,2	62,2	536	44,5	41,5	17,3
400	40	63,4	60,4	536	42	39,0	17,3
500	45,3	61,9	58,9	536	40	37,0	17,3
600	50,1	60,7	57,7	535,5	38,4	35,4	17,3

Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	8 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-B2ca/Cca/Dca/Eca/Fca

FEYNMAN Solid Cable

CAT 6A 4PAIR S/FTP CABLE

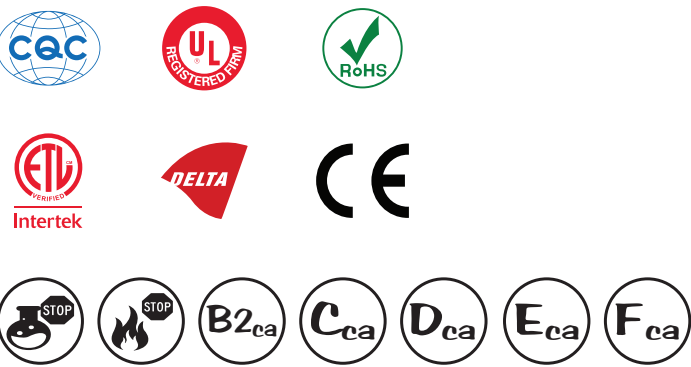
Standards

UL Subject 444,ANSI/TIA 568C.2, ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

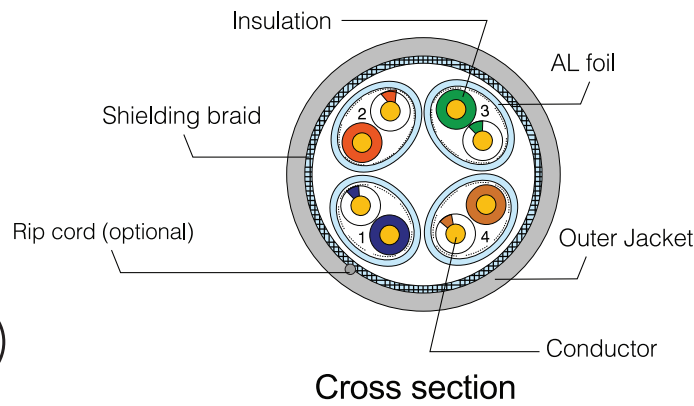
Application

100 BASE-Tc 155 Mbps ATM
100 BASE-TX 622 Mbps ATM
100VG-AnyLAN 10GB ETHERNET
1000 BASE-T
1000 BASE-TX

Characteristics



Product Structure Diagram



Product Structure

Product Name	CAT 6A 4PAIR S/FTP CABLE	CAT 6A 8PAIR S/FTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Skin-Foam-Skin	Skin-Foam-Skin
Nominal Insulation Dimension	1.34±0.05mm	1.34±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Individual Shield&Material	AL Foil	AL Foil
Outer Shield&Material	Braided Wire	Braided Wire
Drain Wire	No	No
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	7.50±0.30mm	(7.50±0.30) X (15.30±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,1	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	547	49,7	46,7	24,5
10	5,9	59,3	57,3	545	47,8	44,8	25,0
16	7,5	56,2	54,2	543	43,7	40,7	25,0
20	8,4	54,8	52,8	542	41,8	38,8	25,0
25	9,4	53,3	51,3	541	39,8	36,8	24,3
31,25	10,5	51,9	49,9	540	37,9	34,9	23,6
62,5	15	47,4	45,4	539	31,9	28,9	21,5
100	19,1	44,3	42,3	538	27,8	24,8	20,1
200	27,6	39,8	37,8	537	21,8	18,8	18,0
250	31,1	38,3	36,3	536	19,8	16,8	17,3
300	34,3	37,1	35,1	536	18,3	15,3	16,8
400	40,1	35,3	33,3	536	15,8	12,8	15,9
500	45,3	33,8	31,8	536	13,8	10,8	15,2

Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	8 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-B2ca/Cca/Dca/Eca/Fca

FEYNMAN Solid Cable

CAT 6A 4PAIR F/FTP CABLE

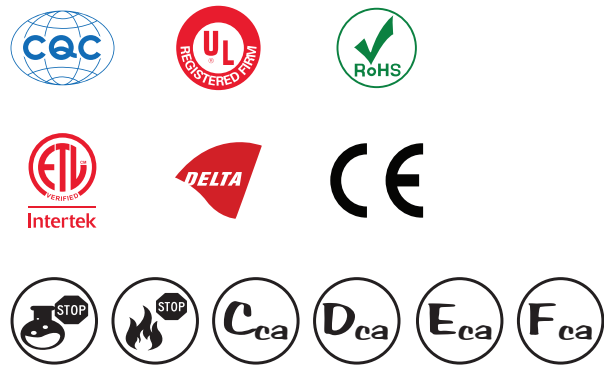
Standards

UL Subject 444,ANSI/TIA 568C.2, ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

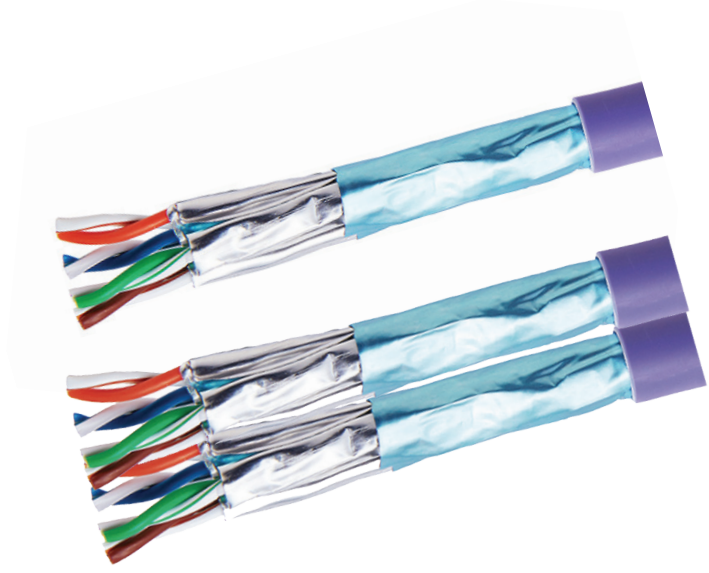
- 100 BASE-Tc
- 100 BASE-TX
- 100VG-AnyLAN
- 1000 BASE-T
- 1000 BASE-TX
- 155 Mbps ATM
- 622 Mbps ATM
- 10GB ETHERNET

Characteristics

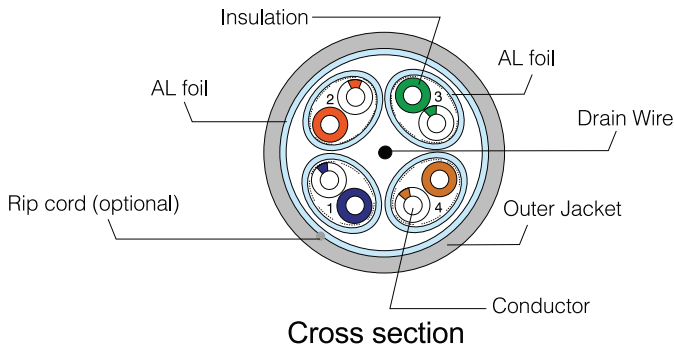


Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	8 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-Cca/Dca/Eca/Fca



Product Structure Diagram



Product Structure

Product Name	CAT 6A 4PAIR F/FTP CABLE	CAT 6A 8PAIR F/FTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Skin-Foam-Skin	Skin-Foam-Skin
Nominal Insulation Dimension	1.34±0.05mm	1.34±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Individual Shield&Material	AL Foil	AL Foil
Outer Shield&Material	Braided Wire	Braided Wire
Drain Wire	Yes	Yes
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	7.30±0.30mm	(7.30±0.30) X (15.00±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,1	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	547	49,7	46,7	24,5
10	5,9	59,3	57,3	545	47,8	44,8	25,0
16	7,5	56,2	54,2	543	43,7	40,7	25,0
20	8,4	54,8	52,8	542	41,8	38,8	25,0
25	9,4	53,3	51,3	541	39,8	36,8	24,3
31,25	10,5	51,9	49,9	540	37,9	34,9	23,6
62,5	15	47,4	45,4	539	31,9	28,9	21,5
100	19,1	44,3	42,3	538	27,8	24,8	20,1
200	27,6	39,8	37,8	537	21,8	18,8	18,0
250	31,1	38,3	36,3	536	19,8	16,8	17,3
300	34,3	37,1	35,1	536	18,3	15,3	16,8
400	40,1	35,3	33,3	536	15,8	12,8	15,9
500	45,3	33,8	31,8	536	13,8	10,8	15,2

FEYNMAN Solid Cable

CAT 6A 4PAIR U/FTP CABLE

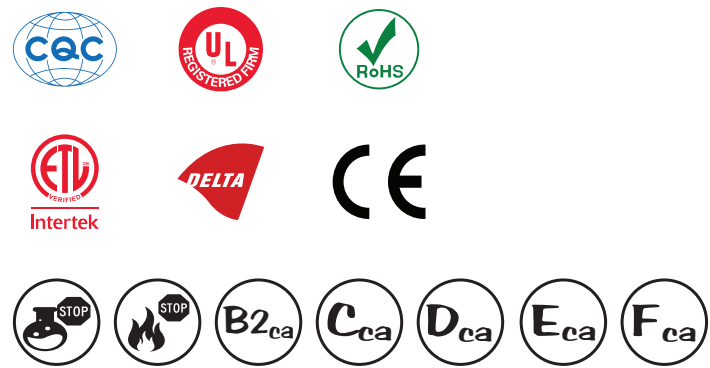
Standards

UL Subject 444,ANSI/TIA 568C.2, ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

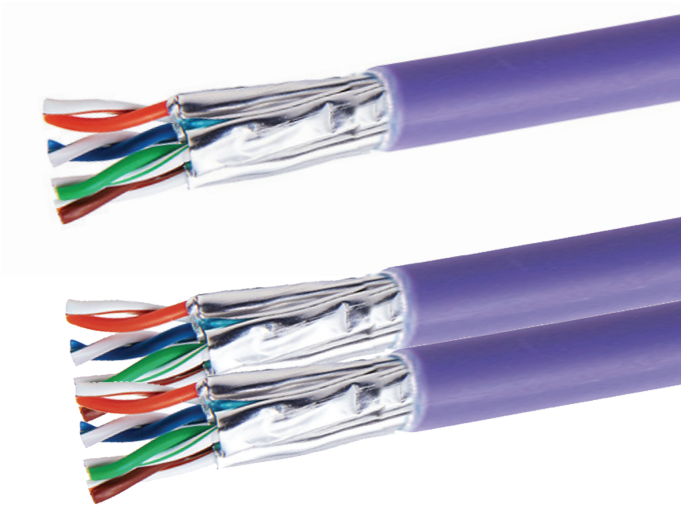
- 100 BASE-Tc
- 155 Mbps ATM
- 100 BASE-TX
- 622 Mbps ATM
- 100VG-AnyLAN
- 10GB ETHERNET
- 1000 BASE-T
-
- 1000 BASE-TX
-

Characteristics

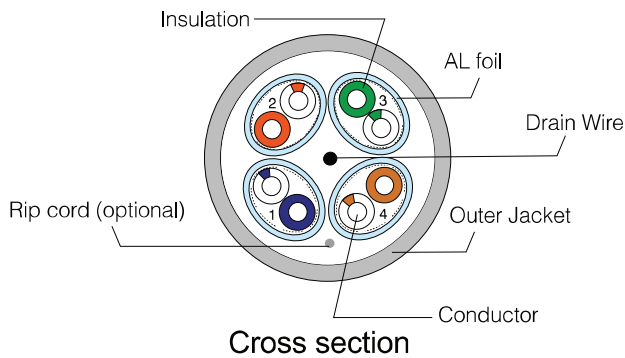


Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	8 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-B2ca/Cca/Dca/Eca/Fca



Product Structure Diagram



Product Structure

Product Name	CAT 6A 4PAIR U/FTP CABLE	CAT 6A 8PAIR U/FTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Skin-Foam-Skin	Skin-Foam-Skin
Nominal Insulation Dimension	1.34±0.05mm	1.34±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Individual Shield&Material	AL Foil	AL Foil
Outer Shield&Material	No	No
Drain Wire	Yes	Yes
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	7.30±0.30mm	(7.30±0.30) X (15.00±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,1	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	547	49,7	46,7	24,5
10	5,9	59,3	57,3	545	47,8	44,8	25,0
16	7,5	56,2	54,2	543	43,7	40,7	25,0
20	8,4	54,8	52,8	542	41,8	38,8	25,0
25	9,4	53,3	51,3	541	39,8	36,8	24,3
31,25	10,5	51,9	49,9	540	37,9	34,9	23,6
62,5	15	47,4	45,4	539	31,9	28,9	21,5
100	19,1	44,3	42,3	538	27,8	24,8	20,1
200	27,6	39,8	37,8	537	21,8	18,8	18,0
250	31,1	38,3	36,3	536	19,8	16,8	17,3
300	34,3	37,1	35,1	536	18,3	15,3	16,8
400	40,1	35,3	33,3	536	15,8	12,8	15,9
500	45,3	33,8	31,8	536	13,8	10,8	15,2

FEYNMAN Solid Cable

CAT 6A 4PAIR U/UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2, ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

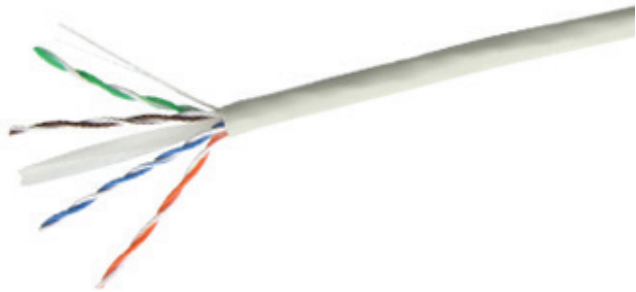
- 100 BASE-Tc
- 100 BASE-TX
- 100VG-AnyLAN
- 1000 BASE-T
- 1000 BASE-TX
- 155 Mbps ATM
- 622 Mbps ATM
- 10GB ETHERNET

Characteristics

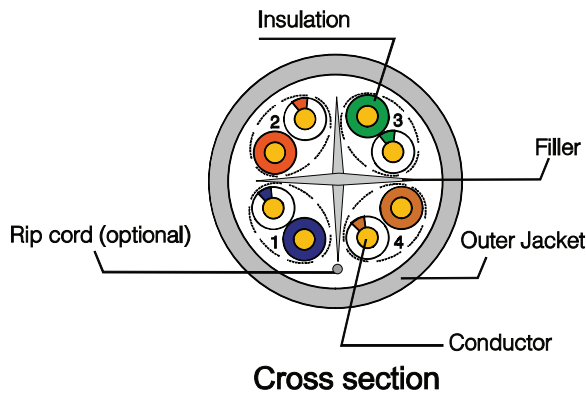


Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	4 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-B2ca/Dca/Eca/Fca



Product Structure Diagram



Product Structure

Product Name	CAT 6A 4PAIR U/UTP CABLE	CAT 6A 8PAIR U/UTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Solid PE	Skin-Foam-Skin
Nominal Insulation Dimension	1.02±0.05mm	1.02±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Seperater	Yes	Yes
Individual Shield&Material	No	No
Outer Shield&Material	No	No
Drain Wire	No	No
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	6.50±0.30mm	(6.50±0.30) X (13.30±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,1	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	547	49,7	46,7	24,5
10	5,9	59,3	57,3	545	47,8	44,8	25,0
16	7,5	56,2	54,2	543	43,7	40,7	25,0
20	8,4	54,8	52,8	542	41,8	38,8	25,0
25	9,4	53,3	51,3	541	39,8	36,8	24,3
31,25	10,5	51,9	49,9	540	37,9	34,9	23,6
62,5	15	47,4	45,4	539	31,9	28,9	21,5
100	19,1	44,3	42,3	538	27,8	24,8	20,1
200	27,6	39,8	37,8	537	21,8	18,8	18,0
250	31,1	38,3	36,3	536	19,8	16,8	17,3
300	34,3	37,1	35,1	536	18,3	15,3	16,8
400	40,1	35,3	33,3	536	15,8	12,8	15,9
500	45,3	33,8	31,8	536	13,8	10,8	15,2

FEYNMAN Solid Cable

CAT 6A 4PAIR OUTDOOR U/UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2, ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

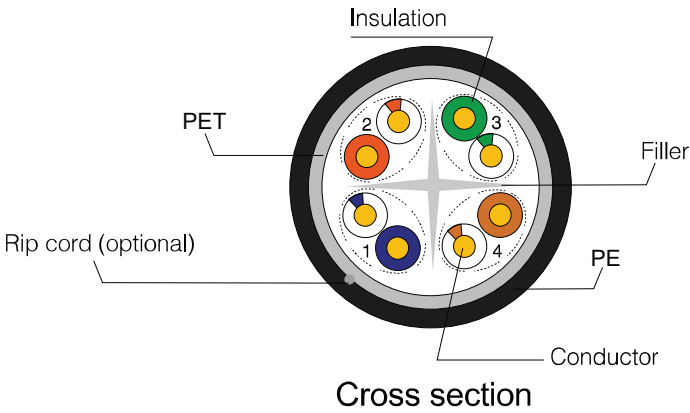
Application

- 100 BASE-Tc
- 100 BASE-TX
- 100VG-AnyLAN
- 1000 BASE-T
- 1000 BASE-TX
- 155 Mbps ATM
- 622 Mbps ATM
- 10GB ETHERNET

Characteristics



Product Structure Diagram



Mechanical Charateristics

Operating Temperature	-40~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	8 X O.D.
Flame Test	Fca

Product Structure

Product Name	CAT 6A 4PAIR OUTDOOR U/UTP CABLE	CAT 6A 8PAIR OUTDOOR U/UTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Solid Insulation	Solid Insulation
Nominal Insulation Dimension	1.02±0.05mm	1.02±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Seperater	Yes	Yes
Individual Shield&Material	No	No
Outer Shield&Material	No	No
Drain Wire	No	No
Outer Jacket Material	PE	PE
Ripcord	Optional	Optional
Nominal Cable Diameter	7.10±0.30mm	(7.10±0.30) X (14.40±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,1	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	547	49,7	46,7	24,5
10	5,9	59,3	57,3	545	47,8	44,8	25,0
16	7,5	56,2	54,2	543	43,7	40,7	25,0
20	8,4	54,8	52,8	542	41,8	38,8	25,0
25	9,4	53,3	51,3	541	39,8	36,8	24,3
31,25	10,5	51,9	49,9	540	37,9	34,9	23,6
62,5	15	47,4	45,4	539	31,9	28,9	21,5
100	19,1	44,3	42,3	538	27,8	24,8	20,1
200	27,6	39,8	37,8	537	21,8	18,8	18,0
250	31,1	38,3	36,3	536	19,8	16,8	17,3
300	34,3	37,1	35,1	536	18,3	15,3	16,8
400	40,1	35,3	33,3	536	15,8	12,8	15,9
500	45,3	33,8	31,8	536	13,8	10,8	15,2

FEYNMAN Solid Cable

CAT 6 4PAIR F/UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

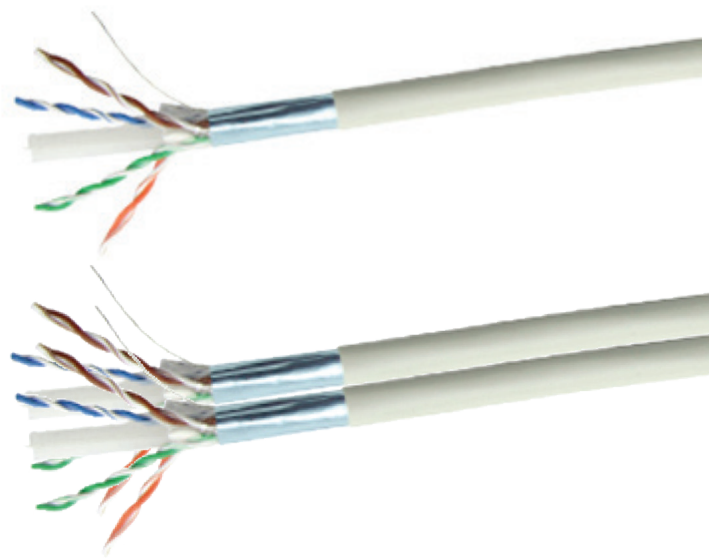
100 BASE-Tc 155 Mbps ATM
100 BASE-TX 622 Mbps ATM
100VG-AnyLAN
1000 BASE-T
1000 BASE-TX

Characteristics

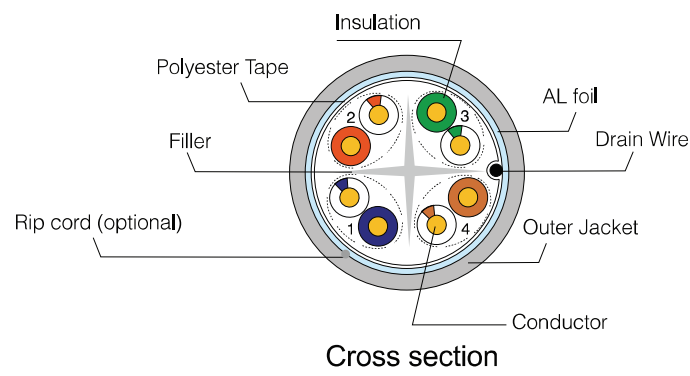


Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	8 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-Dca/Eca/Fca



Product Structure Diagram



Product Structure

Product Name	CAT 6 4PAIR F/UTP CABLE	CAT 6 8PAIR F/UTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Solid PE	Solid PE
Nominal Insulation Dimension	1.14±0.05mm	1.14±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Seperater	Yes	Yes
Individual Shield&Material	Polyester Tape	Polyester Tape
Outer Shield&Material	AL Foil	AL Foil
Drain Wire	Yes	Yes
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	7.30±0.30mm	(7.30±0.30) X (14.80±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	546,7	49,7	46,7	24,5
10	6,0	59,3	57,3	545,4	47,8	44,8	25,0
16	7,6	56,2	54,2	543	43,7	40,7	25,0
20	8,5	54,8	52,8	542	41,8	38,8	25,0
25	9,5	53,3	51,3	541,2	39,8	36,8	24,3
31,25	10,7	51,9	49,9	540,4	37,9	34,9	23,6
62,5	15,4	47,4	45,4	538,6	31,9	28,9	21,5
100	19,8	44,3	42,3	537,6	27,8	24,8	20,1
200	29,0	39,8	37,8	536,5	21,8	18,8	18,0
250	32,8	38,3	36,3	536,3	19,8	16,8	17,3

FEYNMAN Solid Cable

CAT 6 4PAIR U/UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

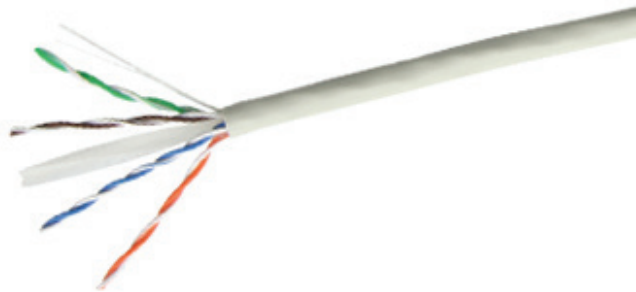
100 BASE-Tc 155 Mbps ATM
100 BASE-TX 622 Mbps ATM
100VG-AnyLAN
1000 BASE-T
1000 BASE-TX

Characteristics

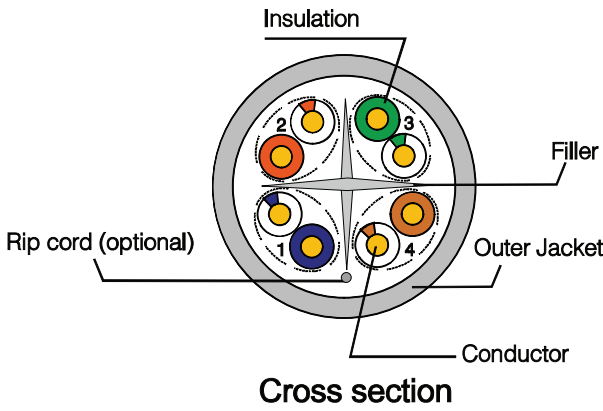


Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	4 X O.D.
Flame Test	PVC: CMX/CMH/CM/CMG/CMR/CMP LSZH: CPR-B2ca/Dca/Eca/Fca



Product Structure Diagram



Product Structure

Product Name	CAT 6 4PAIR U/UTP CABLE	CAT 6 8PAIR U/UTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Solid PE	Solid PE
Nominal Insulation Dimension	1.01±0.06mm	1.01±0.06mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Seperater	Yes	Yes
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	6.10±0.30mm	(6.10±0.30) X (12.40±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	546,7	49,7	46,7	24,5
10	6,0	59,3	57,3	545,4	47,8	44,8	25,0
16	7,6	56,2	54,2	543	43,7	40,7	25,0
20	8,5	54,8	52,8	542	41,8	38,8	25,0
25	9,5	53,3	51,3	541,2	39,8	36,8	24,3
31,25	10,7	51,9	49,9	540,4	37,9	34,9	23,6
62,5	15,4	47,4	45,4	538,6	31,9	28,9	21,5
100	19,8	44,3	42,3	537,6	27,8	24,8	20,1
200	29,0	39,8	37,8	536,5	21,8	18,8	18,0
250	32,8	38,3	36,3	536,3	19,8	16,8	17,3

FEYNMAN Solid Cable

CAT 6 4PAIR OUTDOOR U/UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

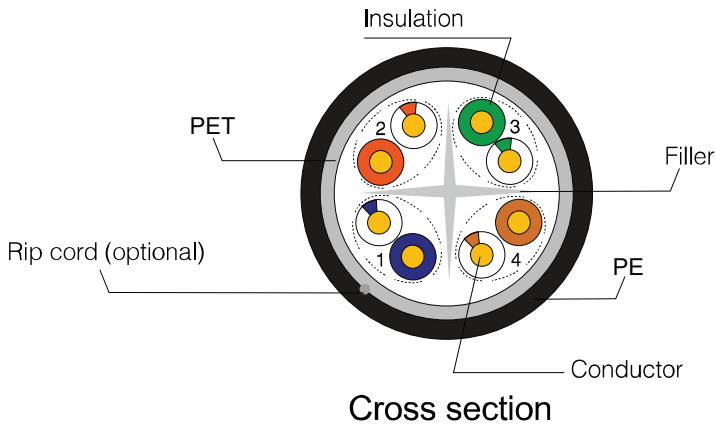
- 100 BASE-Tc
- 155 Mbps ATM
- 100 BASE-TX
- 622 Mbps ATM
- 100VG-AnyLAN
- 1000 BASE-T
- 1000 BASE-TX



Characteristics



Product Structure Diagram



Mechanical Charateristics

Operating Temperature	-40~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	4 X O.D.
Flame Test	PE: Fca

Product Structure

Product Name	CAT 6 4PAIR OUTDOOR U/UTP CABLE	CAT 6 8PAIR OUTDOOR U/UTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Solid PE	Solid PE
Nominal Insulation Dimension	1.01±0.06mm	1.01±0.06mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Seperater	Yes	Yes
Outer Jacket Material	PE	PE
Ripcord	Optional	Optional
Nominal Cable Diameter	6.20±0.30mm	(6.20±0.30) X (12.60±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	546,7	49,7	46,7	24,5
10	6,0	59,3	57,3	545,4	47,8	44,8	25,0
16	7,6	56,2	54,2	543	43,7	40,7	25,0
20	8,5	54,8	52,8	542	41,8	38,8	25,0
25	9,5	53,3	51,3	541,2	39,8	36,8	24,3
31,25	10,7	51,9	49,9	540,4	37,9	34,9	23,6
62,5	15,4	47,4	45,4	538,6	31,9	28,9	21,5
100	19,8	44,3	42,3	537,6	27,8	24,8	20,1
200	29,0	39,8	37,8	536,5	21,8	18,8	18,0
250	32,8	38,3	36,3	536,3	19,8	16,8	17,3

FEYNMAN Solid Cable

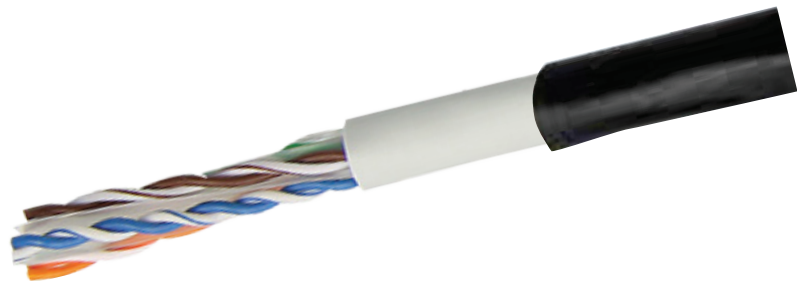
CAT 6 4PAIR DOUBLE-JACKET OUTDOOR U/UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

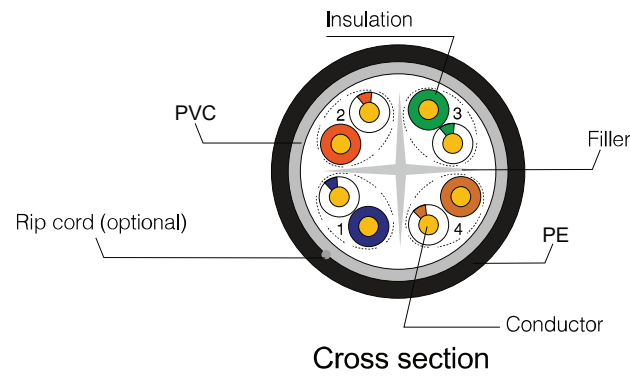
- 100 BASE-Tc
- 155 Mbps ATM
- 100 BASE-TX
- 622 Mbps ATM
- 100VG-AnyLAN
- 1000 BASE-T
- 1000 BASE-TX



Characteristics



Product Structure Diagram



Mechanical Charateristics

Operating Temperature	-40~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	4 X O.D.
Flame Test	PVC: CM PE: Fca

Product Structure

Product Name	CAT 6 4PAIR DOUBLE-JACKET OUTDOOR U/UTP CABLE	CAT 6 8PAIR DOUBLE-JACKET OUTDOOR U/UTP CABLE
Conductor	23AWG	23AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.57±0.02mm	0.57±0.02mm
Insulation Material	Solid PE	Solid PE
Nominal Insulation Dimension	1.02±0.05mm	1.02±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Seperater	Yes	Yes
Outer Jacket Material	PVC+PE	PVC+PE
Ripcord	Optional	Optional
Nominal Cable Diameter	7.10±0.30mm	(7.10±0.30) X (14.40±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	74,3	72,3	570	67,8	64,8	20,0
4	3,8	65,3	63,3	552	55,8	52,8	23,0
8	5,3	60,8	58,8	546,7	49,7	46,7	24,5
10	6,0	59,3	57,3	545,4	47,8	44,8	25,0
16	7,6	56,2	54,2	543	43,7	40,7	25,0
20	8,5	54,8	52,8	542	41,8	38,8	25,0
25	9,5	53,3	51,3	541,2	39,8	36,8	24,3
31,25	10,7	51,9	49,9	540,4	37,9	34,9	23,6
62,5	15,4	47,4	45,4	538,6	31,9	28,9	21,5
100	19,8	44,3	42,3	537,6	27,8	24,8	20,1
200	29,0	39,8	37,8	536,5	21,8	18,8	18,0
250	32,8	38,3	36,3	536,3	19,8	16,8	17,3

FEYNMAN Solid Cable

CAT 5E 4PAIR SF/UTP CABLE

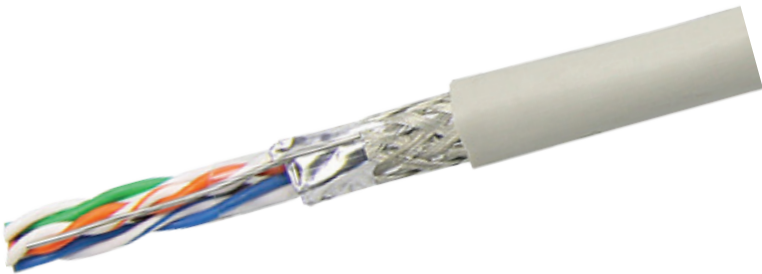
Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

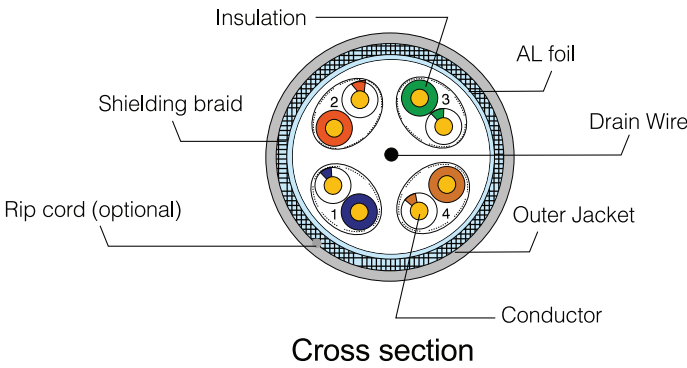
Application

100 BASE-Tc 155 Mbps ATM
100 BASE-TX
100VG-AnyLAN
1000 BASE-T
1000 BASE-TX

Characteristics



Product Structure Diagram



Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	8 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-Eca/Fca

Product Structure

Product Name	CAT 5E 4PAIR SF/UTP CABLE	CAT 5E 8PAIR SF/UTP CABLE
Conductor	24AWG	24AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.515±0.02mm	0.515±0.02mm
Insulation Material	Foamed PE	Foamed PE
Nominal Insulation Dimension	1.02±0.05mm	1.02±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Individual Shield&Material	N/A	N/A
Outer Shield&Material	AL Foil Braided Wire	AL Foil Braided Wire
Drain Wire	Yes	Yes
Outer Jacket Material	PVC/PE	PVC/PE
Ripcord	Optional	Optional
Nominal Cable Diameter	6.40±0.30mm	(6.40±0.30) X (13.00±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	65,3	62,3	570	63,8	60,8	20,0
4	4,1	56,3	53,3	552	51,8	48,8	23,0
8	5,8	51,8	48,8	546,7	45,7	42,7	24,5
10	6,5	50,3	47,3	545,4	43,8	40,8	25,0
16	8,2	47,2	44,2	543	39,7	36,7	25,0
20	9,3	45,8	42,8	542	37,8	34,8	25,0
25	10,4	44,3	41,3	541,2	35,8	32,8	24,3
31,25	11,7	42,9	39,9	540,4	33,9	30,9	23,6
62,5	17,0	38,4	35,4	538,6	27,9	24,9	21,5
100	22,0	35,3	32,3	537,6	23,8	20,8	20,1

FEYNMAN Solid Cable

CAT 5E 4PAIR F/UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

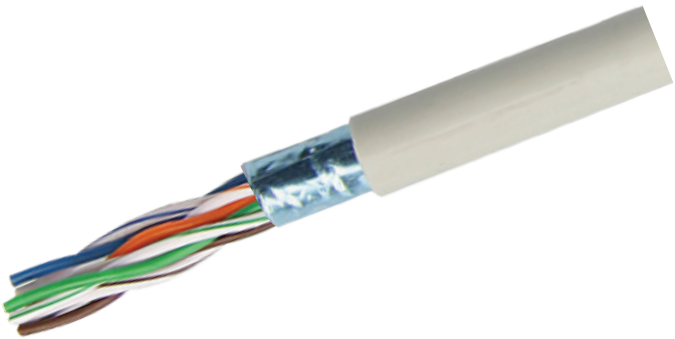
100 BASE-Tc 155 Mbps ATM
100 BASE-TX
100VG-AnyLAN
1000 BASE-T
1000 BASE-TX

Characteristics

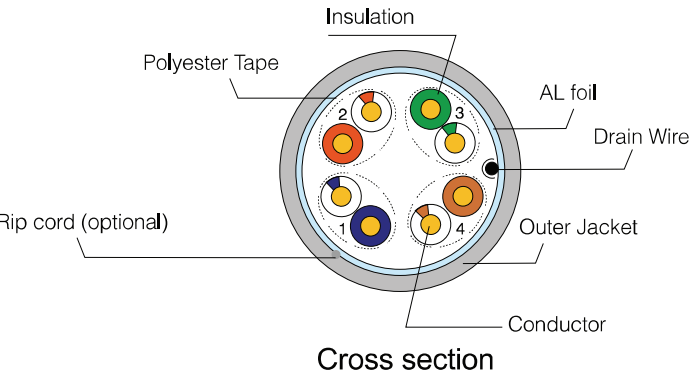


Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	4 X O.D.
Flame Test	PVC: CMX/CM/CMG/CMR LSZH: CPR-Dca/Eca/Fca



Product Structure Diagram



Product Structure

Product Name	CAT 5E 4PAIR F/UTP CABLE	CAT 5E 8PAIR F/UTP CABLE
Conductor	24AWG	24AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.505±0.02mm	0.505±0.02mm
Insulation Material	Solid PE	Solid PE
Nominal Insulation Dimension	1.05±0.05mm	1.05±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Outer Jacket Material	PVC/LSZH/PE	PVC/LSZH/PE
Ripcord	Optional	Optional
Nominal Cable Diameter	6.00±0.30mm	(6.00±0.30) X (12.30±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	65,3	62,3	570	63,8	60,8	20,0
4	4,1	56,3	53,3	552	51,8	48,8	23,0
8	5,8	51,8	48,8	546,7	45,7	42,7	24,5
10	6,5	50,3	47,3	545,4	43,8	40,8	25,0
16	8,2	47,2	44,2	543	39,7	36,7	25,0
20	9,3	45,8	42,8	542	37,8	34,8	25,0
25	10,4	44,3	41,3	541,2	35,8	32,8	24,3
31,25	11,7	42,9	39,9	540,4	33,9	30,9	23,6
62,5	17,0	38,4	35,4	538,6	27,9	24,9	21,5
100	22,0	35,3	32,3	537,6	23,8	20,8	20,1

FEYNMAN Solid Cable

CAT 5E 4PAIR U/UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

Application

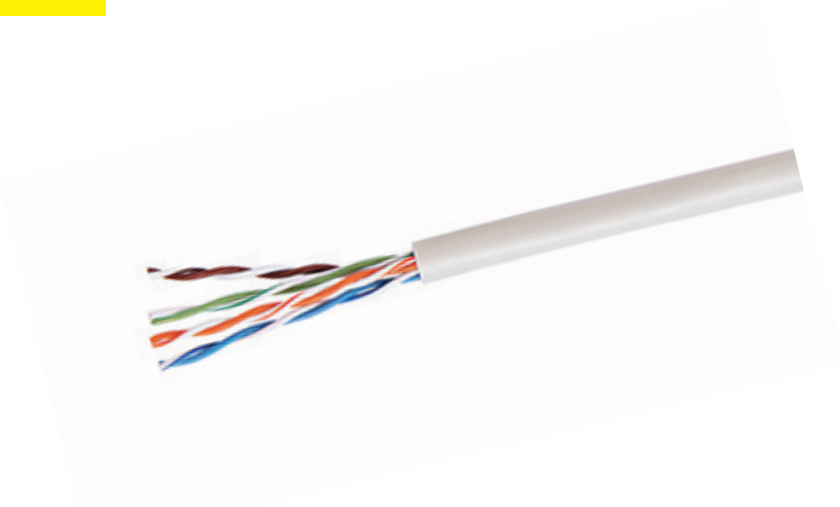
100 BASE-Tc 155 Mbps ATM
100 BASE-TX
100VG-AnyLAN
1000 BASE-T
1000 BASE-TX

Characteristics

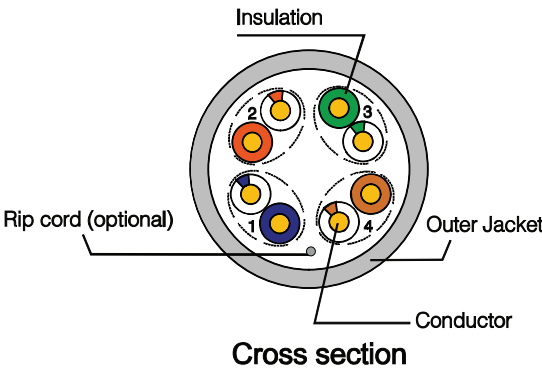


Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	4 X O.D.
Flame Test	PVC: CMX/CMH/CM/CMG/CMR/CMP LSZH: CPR-Dca/Eca/Fca



Product Structure Diagram



Product Structure

Product Name	CAT 5E 4PAIR U/UTP CABLE	CAT 5E 8PAIR U/UTP CABLE
Conductor	24AWG	24AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.505±0.02mm	0.505±0.02mm
Insulation Material	Solid PE	Solid PE
Nominal Insulation Dimension	088±0.05mm	088±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	4.80±0.30mm	(4.80±0.30) X (9.80±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	65,3	62,3	570	63,8	60,8	20,0
4	4,1	56,3	53,3	552	51,8	48,8	23,0
8	5,8	51,8	48,8	546,7	45,7	42,7	24,5
10	6,5	50,3	47,3	545,4	43,8	40,8	25,0
16	8,2	47,2	44,2	543	39,7	36,7	25,0
20	9,3	45,8	42,8	542	37,8	34,8	25,0
25	10,4	44,3	41,3	541,2	35,8	32,8	24,3
31,25	11,7	42,9	39,9	540,4	33,9	30,9	23,6
62,5	17,0	38,4	35,4	538,6	27,9	24,9	21,5
100	22,0	35,3	32,3	537,6	23,8	20,8	20,1

FEYNMAN Solid Cable

CAT 5E 4PAIR OUTDOOR U/UTP CABLE

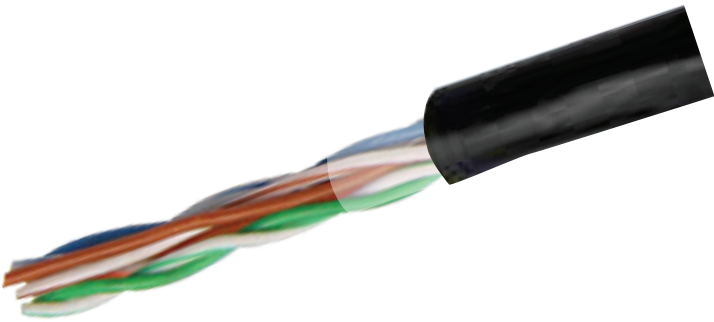
Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

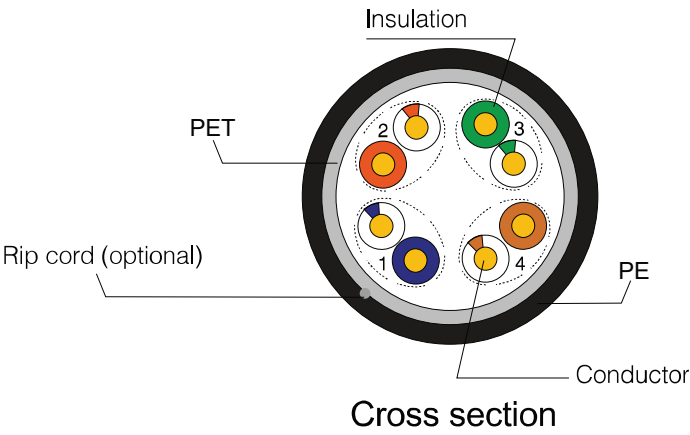
Application

100 BASE-Tc 155 Mbps ATM
100 BASE-TX
100VG-AnyLAN
1000 BASE-T
1000 BASE-TX

Characteristics



Product Structure Diagram



Mechanical Charateristics

Operating Temperature	-40~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	4 X O.D.
Flame Test	PVC: CM PE: Fca

Product Structure

Product Name	CAT 5E 4PAIR OUTDOOR U/UTP CABLE	CAT 5E 8PAIR OUTDOOR U/UTP CABLE
Conductor	24AWG	24AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.505±0.02mm	0.505±0.02mm
Insulation Material	Solid PE	Solid PE
Nominal Insulation Dimension	088±0.05mm	088±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	5.00±0.30mm	(5.00±0.30) X (10.20±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	65,3	62,3	570	63,8	60,8	20,0
4	4,1	56,3	53,3	552	51,8	48,8	23,0
8	5,8	51,8	48,8	546,7	45,7	42,7	24,5
10	6,5	50,3	47,3	545,4	43,8	40,8	25,0
16	8,2	47,2	44,2	543	39,7	36,7	25,0
20	9,3	45,8	42,8	542	37,8	34,8	25,0
25	10,4	44,3	41,3	541,2	35,8	32,8	24,3
31,25	11,7	42,9	39,9	540,4	33,9	30,9	23,6
62,5	17,0	38,4	35,4	538,6	27,9	24,9	21,5
100	22,0	35,3	32,3	537,6	23,8	20,8	20,1

FEYNMAN Solid Cable

CAT 5E 4PAIR DOUBLE-JACKET OUTDOOR U/UTP CABLE

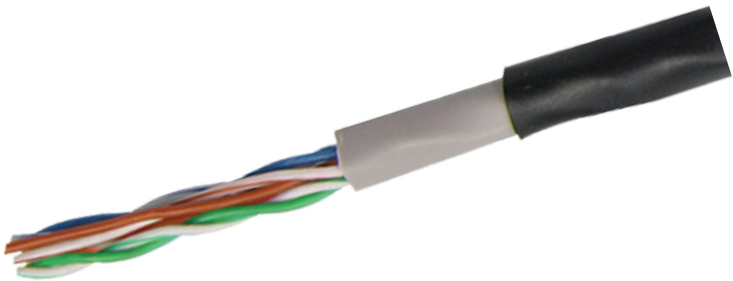
Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, IEC 61156-5, YD/T1019-2013

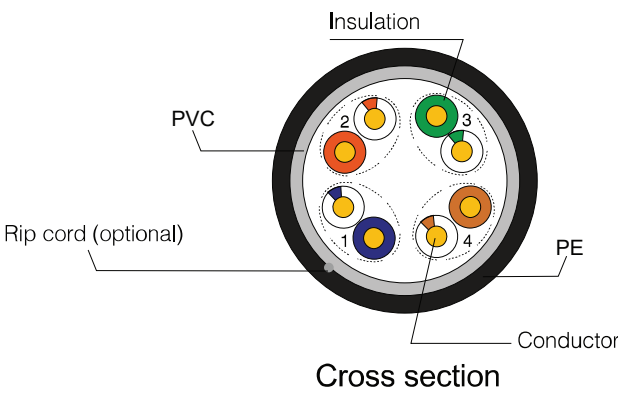
Application

100 BASE-Tc 155 Mbps ATM
100 BASE-TX
100VG-AnyLAN
1000 BASE-T
1000 BASE-TX

Characteristics



Product Structure Diagram



Mechanical Charateristics

Operating Temperature	-20~75°C
Maximum Pulling Force	110N
Minimun Bending Radius	4 X O.D.
Flame Test	PVC: CM PE: Fca

Product Structure

Product Name	CAT 5E 4PAIR DOUBLE-JACKET OUTDOOR U/UTP CABLE	CAT 5E 8PAIR DOUBLE-JACKET OUTDOOR U/UTP CABLE
Conductor	24AWG	24AWG
Number Of Pairs	4	4 x 2
Nominal Conductor Dimension	0.505±0.02mm	0.505±0.02mm
Insulation Material	Solid PE	Solid PE
Nominal Insulation Dimension	088±0.05mm	088±0.05mm
Color Code	White&Blue/Blue White&Orange/Orange White&Green/Green White&Brown/Brown	
Outer Jacket Material	PVC+PE	PVC+PE
Ripcord	Optional	Optional
Nominal Cable Diameter	5.90±0.30mm	(5.90±0.30) X (12.00±0.60)mm

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	Prop. Delay (ns/100m)	ACR-F (dB/100m)	PSACR-F (dB/100m)	Return Loss (dB)
1	2,0	65,3	62,3	570	63,8	60,8	20,0
4	4,1	56,3	53,3	552	51,8	48,8	23,0
8	5,8	51,8	48,8	546,7	45,7	42,7	24,5
10	6,5	50,3	47,3	545,4	43,8	40,8	25,0
16	8,2	47,2	44,2	543	39,7	36,7	25,0
20	9,3	45,8	42,8	542	37,8	34,8	25,0
25	10,4	44,3	41,3	541,2	35,8	32,8	24,3
31,25	11,7	42,9	39,9	540,4	33,9	30,9	23,6
62,5	17,0	38,4	35,4	538,6	27,9	24,9	21,5
100	22,0	35,3	32,3	537,6	23,8	20,8	20,1

FEYNMAN Solid Cable

CAT 3 Multi Pair UTP CABLE

Standards

UL Subject 444,ANSI/TIA 568C.2,ANSI/TIA 568.2-D,
ISO / IEC 11801, YD/T1019-2013

Application

100 BASE-T

Characteristics



Mechanical Charateristics

Operating Temperature	-20~75℃
Maximum Pulling Force	110N
Minimun Bending Radius	10 X O.D.
Flame Test	PVC: CMX/CM/CMR LSZH: Eca Fca

Electrical Charateristics

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	Prop. Delay (ns/100m)	Structure Return Loss (dB)
1	2,6	41,3	570	12,0
4	5,6	32,3	552	12,0
8	8,5	27,8	547	12,0
10	9,7	26,3	545	12,0
16	13,1	23,3	543	10,0

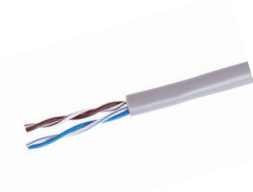
Product Structure

Product Name	CAT 3 1PAIR UTP CABLE	CAT 3 2PAIR UTP CABLE	CAT 3 25PAIR UTP CABLE
Conductor	24AWG	24AWG	24AWG
Number Of Pairs	1	2	25
Nominal Conductor Dimension	0.505±0.02mm	0.505±0.02mm	0.505±0.02mm
Insulation Material	HDPE	HDPE	HDPE
Nominal Insulation Dimension	085±0.05mm	085±0.05mm	085±0.05mm
Color Code	White&Blue/Blue	White&Blue/Blue	Technical Specification
Outer Jacket Material	PVC/LSZH	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional	Optional
Nominal Cable Diameter	2.70±0.30mm	4.30±0.30mm	11.00±1.00mm

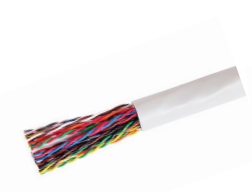
Product Name	CAT 3 50PAIR UTP CABLE	CAT 3 100PAIR UTP CABLE
Conductor	24AWG	24AWG
Number Of Pairs	50	50
Nominal Conductor Dimension	0.505±0.02mm	0.505±0.02mm
Insulation Material	HDPE	HDPE
Nominal Insulation Dimension	085±0.05mm	085±0.05mm
Color Code	White&Blue/Blue	White&Blue/Blue
Outer Jacket Material	PVC/LSZH	PVC/LSZH
Ripcord	Optional	Optional
Nominal Cable Diameter	15.00±2.00mm	20.00±3.00mm



Product Structure Diagram



Product Structure Diagram



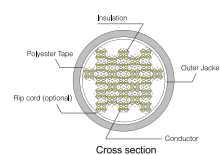
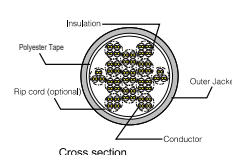
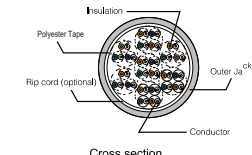
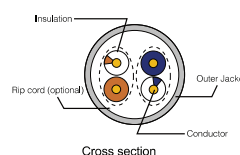
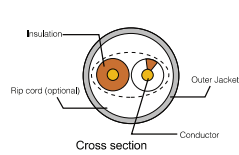
Product Structure Diagram



Product Structure Diagram



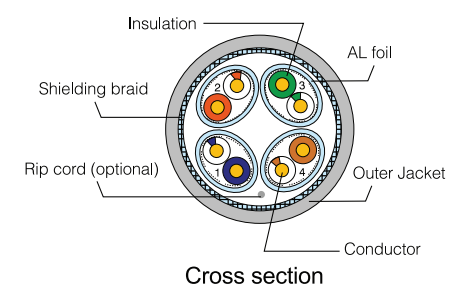
Product Structure Diagram



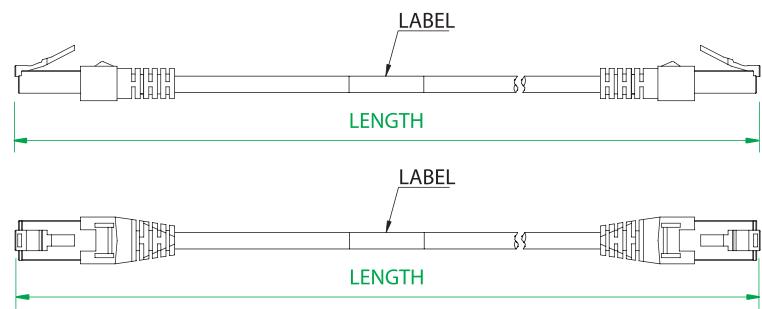
FEYNMAN Patch Cord

CAT 6A PATCH CORD-S/FTP

Product Structure Diagram



Product Structure Diagram



Product Classification

P/N: FC04xx-FC6A*-005	length 0.5m	P/N: FC04xx-FC6A*-050	length 5.0m
P/N: FC04xx-FC6A*-010	length 1.0m	P/N: FC04xx-FC6A*-070	length 7.0m
P/N: FC04xx-FC6A*-015	length 1.5m	P/N: FC04xx-FC6A*-100	length 10.0m
P/N: FC04xx-FC6A*-020	length 2.0m	P/N: FC04xx-FC6A*-150	length 15.0m
P/N: FC04xx-FC6A*-030	length 3.0m	P/N: FC04xx-FC6A*-200	length 20.0m

xx:Conductor *:Jacket Material

xx:Conductor *:Jacket Material

Characteristics



Mechanical Charateristics

Rated temperature	-20~75℃	Rated temperature	-20~75℃
Product Material	PVC	Product Material	LSZH
Pre aging	Tensile strength elongation ≥13.8Mpa ≥100%	Pre aging	Tensile strength elongation ≥9Mpa ≥100%
After aging	Tensile strength elongation ≥85%Mpa of unaged ≥50% of unaged	After aging	Tensile strength elongation ≥70%Mpa of unaged ≥50% of unaged
Aging condition	100 X 168 °Cxhrs	Aging condition	100 X 168 °Cxhrs

Electrical Characteristics

Dielectric strength	1000V/min
Voltage Class (maximum)	150V
Rated current (maximum)	1.5A
Insulation resistance (minimum)	500megohm
Conductor DC Resilance@20 Deg.C(maximum))	≤14.5Ω/100M (26AWG) ≤17.5Ω/100M (27AWG)

Introduction Of Molding Head



Head Type Name	Flat Head	Head Type Name	Square Head	Head Type Name	Flat Head
Head Type No.	04#	Head Type No.	05#	Head Type No.	11#



Head Type Name	Square Head	Head Type Name	Square Head
Head Type No.	12#	Head Type No.	13#

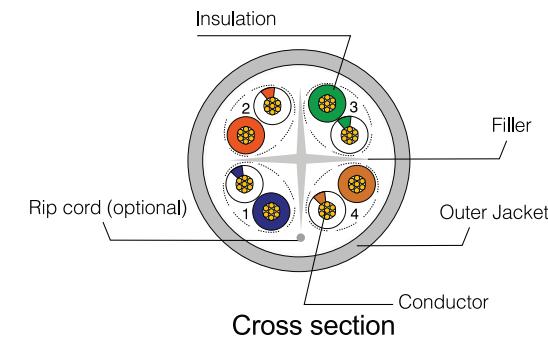
Introduction Of Product

Product Name	Cat 6A Patch Cord S/FTP	Product Name	Cat 6A Patch Cord S/FTP
Conductor	26AWG	Conductor	27AWG
Conductor Dimension	7/0.16mm	Conductor Dimension	7/0.145mm
Insulation Material	Foamed PE	Insulation Material	Foamed PE
Insulation Dimension	1.10±0.05mm	Insulation Dimension	1.00±0.05mm
Jacket Diameter	7.00±0.30mm	Jacket Diameter	6.60±0.30mm

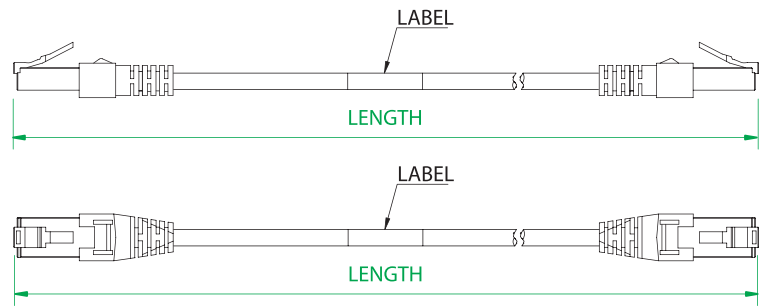
FEYNMAN Patch Cord

CAT 6A PATCH CORD-UTP

Product Structure Diagram



Product Structure Diagram



Product Classification

P/N: FC04xx-UC6A*-005	length 0.5m	P/N: FC04xx-UC6A*-050	length 5.0m
P/N: FC04xx-UC6A*-010	length 1.0m	P/N: FC04xx-UC6A*-070	length 7.0m
P/N: FC04xx-UC6A*-015	length 1.5m	P/N: FC04xx-UC6A*-100	length 10.0m
P/N: FC04xx-UC6A*-020	length 2.0m	P/N: FC04xx-UC6A*-150	length 15.0m
P/N: FC04xx-UC6A*-030	length 3.0m	P/N: FC04xx-UC6A*-200	length 20.0m

xx:Conductor *:Jacket Material

xx:Conductor *:Jacket Material

Characteristics



Mechanical Charateristics

Rated temperature	-20~75℃	Rated temperature	-20~75℃
Product Material	PVC	Product Material	LSZH
Pre aging	Tensile strength elongation ≥13.8Mpa ≥100%	Pre aging	Tensile strength elongation ≥9Mpa ≥100%
After aging	Tensile strength elongation ≥85%Mpa of unaged ≥50% of unaged	After aging	Tensile strength elongation ≥70%Mpa of unaged ≥50% of unaged
Aging condition	100 X 240°Cxhrs	Aging condition	100 X 168 °Cxhrs

Electrical Characteristics

Dielectric strength	1000V/min
Voltage Class (maximum)	150V
Rated current (maximum)	1.5A
Insulation resistance (minimum)	500megohm
Conductor DC Resilance@20 Deg.C(maximum))	≤14.5Ω/100M (26AWG) ≤17.5Ω/100M (27AWG)

Introduction Of Molding Head



Head Type Name	Flat Head	Head Type Name	Square Head	Head Type Name	Semicircular With Ear
Head Type No.	01#	Head Type No.	02#	Head Type No.	03#



Head Type Name	Semicircular With Ear	Head Type Name	Flat With Buckle	Head Type Name	Semicircular With Buckle
Head Type No.	06#	Head Type No.	07#	Head Type No.	08#

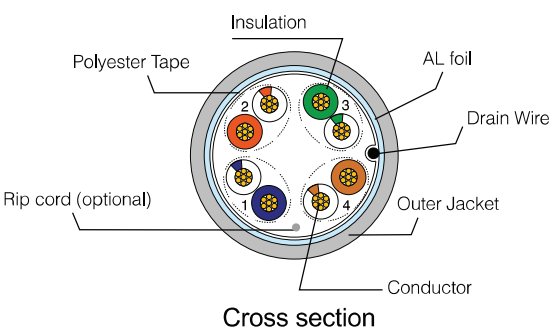


Head Type Name	Square Head	Head Type Name	Square With Cover
Head Type No.	09#	Head Type No.	10#

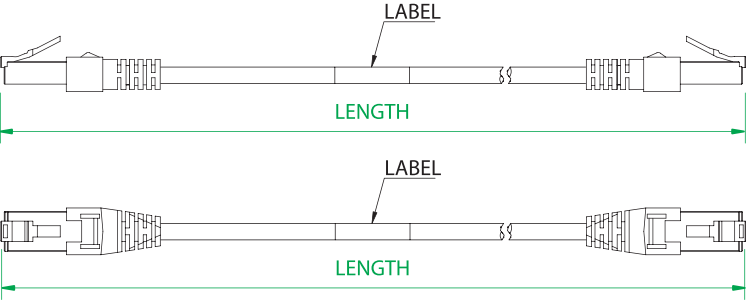
FEYNMAN Patch Cord

CAT 6A PATCH CORD-F/UTP

Product Structure Diagram



Product Structure Diagram



Product Classification

P/N: FC04xx-FC6A*-005	length 0.5m	P/N: FC04xx-FC6A*-050	length 5.0m
P/N: FC04xx-FC6A*-010	length 1.0m	P/N: FC04xx-FC6A*-070	length 7.0m
P/N: FC04xx-FC6A*-015	length 1.5m	P/N: FC04xx-FC6A*-100	length 10.0m
P/N: FC04xx-FC6A*-020	length 2.0m	P/N: FC04xx-FC6A*-150	length 15.0m
P/N: FC04xx-FC6A*-030	length 3.0m	P/N: FC04xx-FC6A*-200	length 20.0m

xx:Conductor *:Jacket Material

xx:Conductor *:Jacket Material

Characteristics



Mechanical Charateristics

Rated temperature	-20~75℃	Rated temperature	-20~75℃
Product Material	PVC	Product Material	LSZH
Pre aging	Tensile strength elongation ≥13.8Mpa ≥100%	Pre aging	Tensile strength elongation ≥9Mpa ≥100%
After aging	Tensile strength elongation ≥85%Mpa of unaged ≥50% of unaged	After aging	Tensile strength elongation ≥70%Mpa of unaged ≥50% of unaged
Aging condition	100 X 168 °Cxhrs	Aging condition	100 X 168 °Cxhrs

Electrical Characteristics

Dielectric strength	1000V/min
Voltage Class (maximum)	150V
Rated current (maximum)	1.5A
Insulation resistance (minimum)	500megohm
Conductor DC Resilance@20 Deg.C(maximum))	≤14.5Ω/100M (26AWG) ≤17.5Ω/100M (27AWG)

Introduction Of Molding Head



Head Type Name	Flat Head	Head Type Name	Square Head	Head Type Name	Flat Head
Head Type No.	04#	Head Type No.	05#	Head Type No.	11#

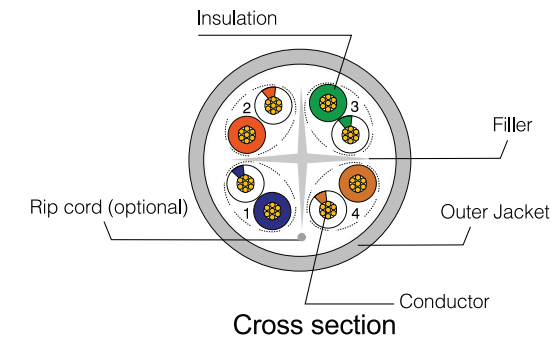


Head Type Name	Square Head	Head Type Name	Square Head
Head Type No.	12#	Head Type No.	13#

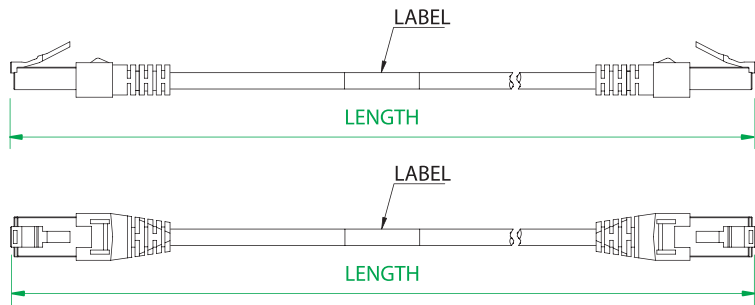
FEYNMAN Patch Cord

CAT 6 PATCH CORD-UTP

Product Structure Diagram



Product Structure Diagram



Product Classification

P/N: FC04xx-UC6*-005	length 0.5m	P/N: FC04xx-UC6*-050	length 5.0m
P/N: FC04xx-UC6*-010	length 1.0m	P/N: FC04xx-UC6*-070	length 7.0m
P/N: FC04xx-UC6*-015	length 1.5m	P/N: FC04xx-UC6*-100	length 10.0m
P/N: FC04xx-UC6*-020	length 2.0m	P/N: FC04xx-UC6*-150	length 15.0m
P/N: FC04xx-UC6*-030	length 3.0m	P/N: FC04xx-UC6*-200	length 20.0m

xx:Conductor *:Jacket Material

xx:Conductor *:Jacket Material

Characteristics



Mechanical Charateristics

Rated temperature	-20~75℃	Rated temperature	-20~75℃
Product Material	PVC	Product Material	LSZH
Pre aging	Tensile strength elongation ≥13.8Mpa ≥100%	Pre aging	Tensile strength elongation ≥9Mpa ≥100%
After aging	Tensile strength elongation ≥85%Mpa of unaged ≥50% of unaged	After aging	Tensile strength elongation ≥70%Mpa of unaged ≥50% of unaged
Aging condition	100 X 240℃xhrs	Aging condition	100 X 168 ℃Cxhrs

Electrical Characteristics

Dielectric strength	1000V/min
Voltage Class (maximum)	150V
Rated current (maximum)	1.5A
Insulation resistance (minimum)	500megohm
Conductor DC Resilance@20 Deg.C(maximum))	≤14.5Ω/100M (26AWG) ≤17.5Ω/100M (27AWG)

Introduction Of Molding Head



Head Type Name	Flat Head	Head Type Name	Square Head	Head Type Name	Semicircular With Ear
Head Type No.	01#	Head Type No.	02#	Head Type No.	03#



Head Type Name	Semicircular With Ear	Head Type Name	Flat With Buckle	Head Type Name	Semicircular With Buckle
Head Type No.	06#	Head Type No.	07#	Head Type No.	08#

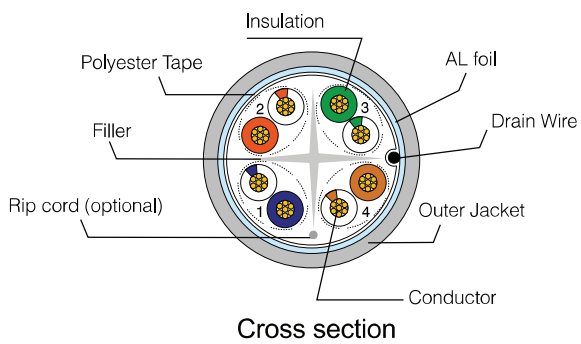


Head Type Name	Square Head	Head Type Name	Square With Cover
Head Type No.	09#	Head Type No.	10#

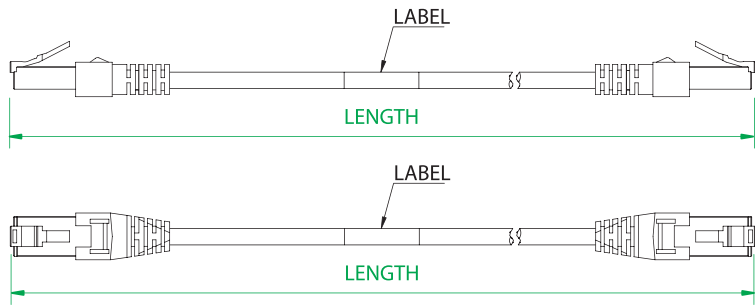
FEYNMAN Patch Cord

CAT 6 PATCH CORD-F/UTP

Product Structure Diagram



Product Structure Diagram



Product Classification

P/N: FC04xx-FC6*-005	length 0.5m	P/N: FC04xx-FC6*-050	length 5.0m
P/N: FC04xx-FC6*-010	length 1.0m	P/N: FC04xx-FC6*-070	length 7.0m
P/N: FC04xx-FC6*-015	length 1.5m	P/N: FC04xx-FC6*-100	length 10.0m
P/N: FC04xx-FC6*-020	length 2.0m	P/N: FC04xx-FC6*-150	length 15.0m
P/N: FC04xx-FC6*-030	length 3.0m	P/N: FC04xx-FC6*-200	length 20.0m

xx:Conductor *:Jacket Material

Characteristics



Mechanical Charateristics

Rated temperature	-20~75℃	Rated temperature	-20~75℃
Product Material	PVC	Product Material	LSZH
Pre aging	Tensile strength elongation ≥13.8Mpa ≥100%	Pre aging	Tensile strength elongation ≥9Mpa ≥100%
After aging	Tensile strength elongation ≥85%Mpa of unaged ≥50% of unaged	After aging	Tensile strength elongation ≥70%Mpa of unaged ≥50% of unaged
Aging condition	100 X 240 °Cxhrs	Aging condition	100 X 168 °Cxhrs

Electrical Characteristics

Dielectric strength	1000V/min
Voltage Class (maximum)	150V
Rated current (maximum)	1.5A
Insulation resistance (minimum)	500megohm
Conductor DC Resilance@20 Deg.C(maximum))	≤14.5Ω/100M (26AWG) ≤17.5Ω/100M (27AWG)

Introduction Of Molding Head



Head Type Name	Flat Head	Head Type Name	Square Head	Head Type Name	Flat Head
Head Type No.	04#	Head Type No.	05#	Head Type No.	11#



Head Type Name	Square Head	Head Type Name	Square Head
Head Type No.	12#	Head Type No.	13#

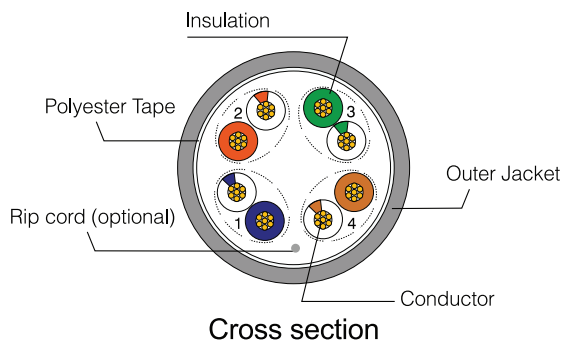
Introduction Of Product

Product Name	Cat 6 Patch Cord F/UTP	Product Name	Cat 6 Patch Cord F/UTP
Conductor	26AWG	Conductor	27AWG
Conductor Dimension	7/0.16mm	Conductor Dimension	7/0.145mm
Insulation Material	HDPE	Insulation Material	HDPE
Insulation Dimension	0.88±0.05mm	Insulation Dimension	0.80±0.05mm
Jacket Diameter	5.90±0.30mm	Jacket Diameter	5.60±0.30mm

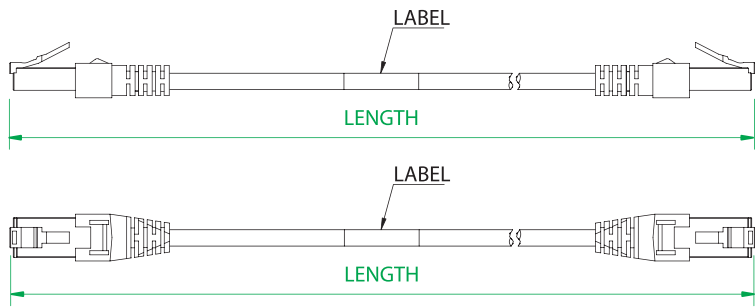
FEYNMAN Patch Cord

CAT 5E PATCH CORD-UTP

Product Structure Diagram



Product Structure Diagram



Product Classification

P/N: FC04xx-UC5E*-005	length 0.5m	P/N: FC04xx-UC5E*-050	length 5.0m
P/N: FC04xx-UC5E*-010	length 1.0m	P/N: FC04xx-UC5E*-070	length 7.0m
P/N: FC04xx-UC5E*-015	length 1.5m	P/N: FC04xx-UC5E*-100	length 10.0m
P/N: FC04xx-UC5E*-020	length 2.0m	P/N: FC04xx-UC5E*-150	length 15.0m
P/N: FC04xx-UC5E*-030	length 3.0m	P/N: FC04xx-UC5E*-200	length 20.0m

xx:Conductor *:Jacket Material

xx:Conductor *:Jacket Material

Characteristics



Mechanical Charateristics

Rated temperature	-20~75℃	Rated temperature	-20~75℃
Product Material	PVC	Product Material	LSZH
Pre aging	Tensile strength elongation ≥13.8Mpa ≥100%	Pre aging	Tensile strength elongation ≥9Mpa ≥100%
After aging	Tensile strength elongation ≥85%Mpa of unaged ≥50% of unaged	After aging	Tensile strength elongation ≥70%Mpa of unaged ≥50% of unaged
Aging condition	100 X 168℃xhrs	Aging condition	100 X 168 ℃Cxhrs

Electrical Characteristics

Dielectric strength	1000V/min
Voltage Class (maximum)	150V
Rated current (maximum)	1.5A
Insulation resistance (minimum)	500megohm
Conductor DC Resilance@20 Deg.C(maximum))	≤14.5Ω/100M

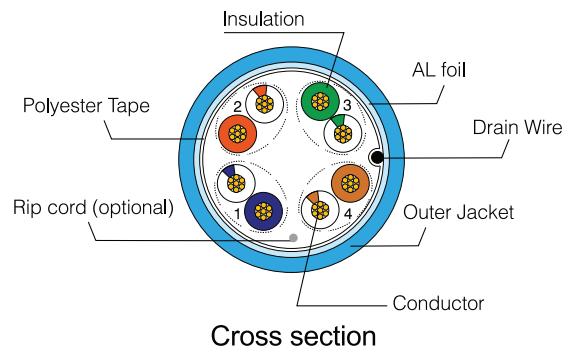
Introduction Of Molding Head

					
Head Type Name	Flat Head	Head Type Name	Square Head	Head Type Name	Semicircular With Ear
Head Type No.	01#	Head Type No.	02#	Head Type No.	03#
					
Head Type Name	Semicircular With Ear	Head Type Name	Flat With Buckle	Head Type Name	Semicircular With Buckle
Head Type No.	06#	Head Type No.	07#	Head Type No.	08#
					
Head Type Name	Square Head	Head Type Name	Square With Cover		
Head Type No.	09#	Head Type No.	10#		

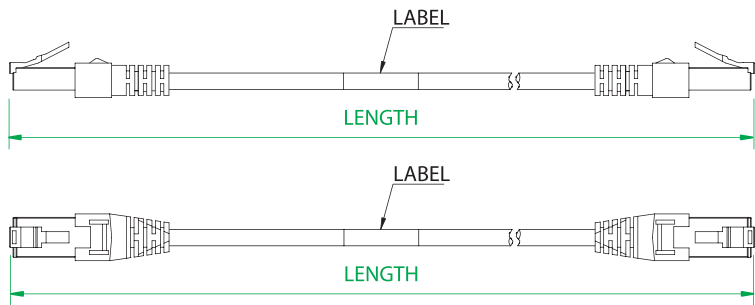
FEYNMAN Patch Cord

CAT 5E PATCH CORD-F/UTP

Product Structure Diagram



Product Structure Diagram



Product Classification

P/N: FC04xx-FC5E*-005	length 0.5m	P/N: FC04xx-FC5E*-050	length 5.0m
P/N: FC04xx-FC5E*-010	length 1.0m	P/N: FC04xx-FC5E*-070	length 7.0m
P/N: FC04xx-FC5E*-015	length 1.5m	P/N: FC04xx-FC5E*-100	length 10.0m
P/N: FC04xx-FC5E*-020	length 2.0m	P/N: FC04xx-FC5E*-150	length 15.0m
P/N: FC04xx-FC5E*-030	length 3.0m	P/N: FC04xx-FC5E*-200	length 20.0m

xx:Conductor *:Jacket Material

xx:Conductor *:Jacket Material

Characteristics



Mechanical Charateristics

Rated temperature	-20~75℃	Rated temperature	-20~75℃
Product Material	PVC	Product Material	LSZH
Pre aging	Tensile strength elongation ≥13.8Mpa ≥100%	Pre aging	Tensile strength elongation ≥9Mpa ≥100%
After aging	Tensile strength elongation ≥85%Mpa of unaged ≥50% of unaged	After aging	Tensile strength elongation ≥70%Mpa of unaged ≥50% of unaged
Aging condition	100 X 168 °Cxhrs	Aging condition	100 X 168 °Cxhrs

Electrical Characteristics

Dielectric strength	1000V/min
Voltage Class (maximum)	150V
Rated current (maximum)	1.5A
Insulation resistance (minimum)	500megohm
Conductor DC Resilance@20 Deg.C(maximum))	≤14.5Ω/100M

Introduction Of Molding Head

					
Head Type Name	Flat Head	Head Type Name	Square Head	Head Type Name	Flat Head
Head Type No.	04#	Head Type No.	05#	Head Type No.	11#
					
Head Type Name	Square Head	Head Type Name	Square Head		
Head Type No.	12#	Head Type No.	13#		