



LAN/Ethernet Cable

Good quality & Good service based on reasonable prices.

- + OEM customized production according to your requirements.
- + Standardized products and services according to our own brand.



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S/FTP CAT8 CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T to 40GBASE-T
- 1Vlp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4
- This fully shielded cable supports 30-meter Class II channels to meet IEEE 802.3bq 25 Gb/s (25GBASE-T) and 40 Gb/s (40GBASE-T) applications in the data center.

Construction

Conductor:	0.63±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.40±0.05 mm Foam PE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded:	AL/PET Foil,100% Coverage Cover every pair
Overall Shield:	Aluminum Foil
Braiding:	TC or Al_Mg, 40% Coverage
Rip Cord:	Cotton or Fibre
Out Jacket:	LSZH

Electrical Characteristics

DC Resistance	<2.1Ohms/30m @20℃
DC Resistance unbalance	2% @ 20℃
NVP(传输速率)	74%
Delay Skew	≤ 7.5ns/30m



S/FTP CAT8 CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	ACR	PSACR	NEXT (Min.)	PSNEXT (Min.)	ACR-F	PS ACR-F
MHz	dB	dB/100m	dB/100m	dB/100m	dB	dB	dB/100m	dB/100m
1	20/21.6	1.1/0.7	76.9/80.2	73.9/87.4	78/80.9	0.9	78//85.6	75/84.1
4	23.1/31.8	1.1/1.1	76.9/90.2	73.9/95.1	78/91.3	75/96.2	78/92.7	75/90.7
10	25/35.9	1.8/1.6	76.2/98	73.2/94.6	78/99.6	75/96.2	78/97.3	75/95.5
16	25/29.8	2.2/2.1	75.8/98.9	72.8/87.5	0.8	75/89.6	76.5/101	73.5/95.8
20	25/30.6	2.5/2.3	75.5/95.8	72.5/94.2	78/98.1	75/96.5	74.7/95.9	71.6/94.2
31.25	25/30.2	3.2/3.0	74.8/95.2	71.8/94.9	78/98.2	75/97.9	70.7/95.2	67.7/92.5
62.5	23.6/32.5	4.5/4.2	73.5/96.8	70.5/88	0.8	75/92.2	64.7/93.9	61.7/89.8
100	22.2/34.6	5.5/5.1	69.9/94.9	66.9/89.6	75.4/100	72.4/94.7	60.6/92.7	57.6/89.4
200	20.1/30.8	7.9/7.3	63/93.7	60/82.2	70.9/101	67.9/89.5	54.6/91	51.6/85.2
300	18.8/20.4	9.8/9.0	58.4/90.3	55.4/79.7	68.2/99.3	85.2/88.7	51.1/86	48.1/84.3
350	18.4/29.4	10.6/9.8	56.6/87.4	53.6/76.3	67.2/97.2	64.2/86.1	49.7/84.1	46.7/81.6
400	18/26.6	11.4/10.4	55/90.6	52/77.9	66.4/101	63.4/88.3	48.6/85.2	45.6/80.8
550	17/29.5	13.5/12.3	50.8/85	47.8/73.2	64.3/97.3	61.3/85.5	45.8/80.9	42.8/80.4
600	16.8/23.1	14.1/12.9	49.6/86.6	46.6/71.9	63.7/99.5	60.7/84.8	45/82	42/80
800	15.9/26	16.5/14.9	45.3/79	42.4/66.1	61.8/93.9	58.9/81	42.5/78.2	39.5/74.1
900	15.5/28.5	17.6/17.6	43.5/79.7	40.5/61.1	61.1/97.3	58.1/78.7	41.5/77.4	38.5/73.6
1000	15.2/32.7	18.6/16.7	41.8/79.4	38.8/63.2	60.4/96.1	57.4/79.9	40.6/76.5	37.6/72.7
1600	13.8/19.5	24/21.6	33.3/75.9	30.3/52.5	57.3/97.5	54.3/74.1	36.5/69.7	33.5/67.6
2000	13.1/19.4	27.2/24.6	28.7/63.3	25.7/40.3	55.9/87.9	52.9/64.9	34.6/64.2	31.6/63.3

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20±2°C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		



S/FTP CAT7A CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T、1000BASE-T、100BASE-T、10BASE-T
- 1Vlp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.58±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.35±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded:	AL/PET Foil,100% Coverage Cover every pair
Overall Shield:	Aluminum Foil
Braiding:	TC or Al_Mg, 41% Coverage
Rip Cord:	Cotton or Fibre
Out Jacket:	PVC , PVC CM UL/ETL , LSZH , PVC CMR UL/ETL

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	2% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 250 MHz : 100±22 Ohms 250 - 1000 MHz : 100±25 Ohms
Max Frequency	750MHz
Capacitance Unbalance	≤330 pF/100m
NVP(传输速率)	74%
Delay Skew	≤ 25ns/100m



S/FTP CAT7A CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	ACR	PSACR	NEXT (Min.)	PSNEXT (Min.)	ACR-F	PS ACR-F
MHz	dB	dB/100m	dB/100m	dB/100m	dB	dB	dB/100m	dB/100m
1	20/31.1	1.9/1.6	76.1/103.1	73.1/100.1	78/104.5	75/102.5	77/96.5	75/94.5
4	23/34.1	3.5/3.1	74.6/102.2	71.6/99.2	78/104.5	75/102.5	77/96.5	75/94.5
10	25/35.1	5.4/4.9	72.6/100.1	69.6/97.2	78/104.5	75/102.5	74/96.5	71/94.5
16	25/35.1	6.8/6.3	71.2/99.5	68.2/96.2	78/104.5	75/102.5	70/96.5	67/94.5
20	25/35.1	7.5/7.1	70.3/98.2	67.4/95.1	78/104.5	75/102.5	68/96.5	65/94.5
31.25	23.6/34.1	9.6/8.9	68.5/96.5	65.5/93.1	78/104.5	75/102.5	64/93.5	61/91.5
62.5	21.5/34.1	13.7/12.8	64.3/92.3	61.3/89.1	78/104.5	75/102.5	58/88.5	55/86.5
100	20.1/31.2	17.5/16.5	58.5/89.1	55.5/86.1	76/102.5	73/100.5	54/82.5	51/80.5
200	18/29.5	25.3/23.5	46.2/79.5	43.2/77.2	71/102.5	68.5/100.5	48/78.5	45/75.5
300	17.3/28.5	31.5/28.9	37.3/73.5	34.3/68.1	69/102.5	66.6/97.5	44/70.5	41/68.5
400	17.3/28.5	36.9/33.1	30.1/62.5	27.1/60.1	67.5/94.5	64.5/93.5	39/70.5	39/59.5
550	17.3/28.5	44.1/40.2	20.8/55.5	17.8/53.1	65/94.5	62.5/93.5	39/60.5	36.5/56.5
600	17.3/28.5	44.2/41.7	18.1/53.1	15.1/51.5	64.5/95.5	61.5/93.5	38/55.5	35/53.5
800	28.5	47.6	7.9/42.1	39.0	62.5/90.5	59.5/87.5	47.0	44.0
1000	27.0	54.5	31.0	29.0	61.5/85.5	58.5/83.5	40.0	38.0
※1200	27.0	59.8	20.0	17.0	80.0	77.0	35.0	33.0

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

※Note: Values for frequencies beyond 1000mHz are for information only

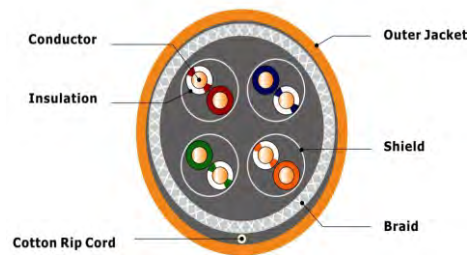
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2 °C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112422	S/FTP CAT7A 1000Mhz 4PR 23AWG PVC ...305M(1000FT)
NO.7112423	S/FTP CAT7A 1000Mhz 4PR 23AWG PVC CM UL/ETL E***** ...305M(1000FT)
NO.7112424	S/FTP CAT7A 1000Mhz 4PR 23AWG PVC CMR UL/ETL E***** ...305M(1000FT)
NO.7112426	S/FTP CAT7A 1000Mhz 4PR 23AWG LSZH ...305M(1000FT)



S/FTP CAT7 CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T、1000BASE-T、100BASE-T、10BASE-T
- 1Vlp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.56±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.33±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded:	AL/PET Foil,100% Coverage Cover every pair
Overall Shield:	Aluminum Foil
Braiding:	TC or Al_Mg, 40% Coverage
Rip Cord:	Cotton or Fibre
Out Jacket:	PVC , PVC CM UL/ETL , LSZH , PVC CMR UL/ETL

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	2% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 750 MHz : 100±25 Ohms
Max Frequency	750MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	74%
Delay Skew	≤ 25ns/100m



S/FTP CAT7 CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	ACR	PSACR	NEXT (Min.)	PSNEXT (Min.)	ACR-F	PS ACR-F
MHz	dB	dB/100m	dB/100m	dB/100m	dB	dB	dB/100m	dB/100m
1	20/32.7	2.1/1.8	75.9/101.9	72.9/108.2	78/103.7	75/110.5	78/94.8	75/102.3
4	23/27.4	3.7/3.4	74.3/103.4	71.3/113.8	78/106.8	75/117.2	78/90.5	75/91.8
10	25/35.9	5.8/5.3	72.2/106.3	69.2/115.8	78/111.6	75/121.1	78/109.5	75/116.2
16	25/36.6	7.3/6.8	70.7/107	67.7/115.1	78/113.9	75/121.9	78/107.5	75/114.5
20	25/36.4	8.2/7.6	69.8/102.5	66.8/109.7	78/110.2	75/117.4	78/115.7	75/117.7
31.25	23.6/39.2	10.3/9.7	67.7/102.7	64.7/109.8	78/112.4	75/119.5	75.4/106.8	72.4/109.8
62.5	21.5/33.6	62.5/13.9	63.4/100.1	60.4/107.7	78/113.5	75/121.6	69.4/102.4	66.4/109.8
100	20.1/37.8	18.5/17.7	59.5/90.6	56.5/99.8	78/108.3	75/118.7	65.3/100.8	62.3/103
200	18/38.9	26.5/25.2	47.4/87.3	44.4/93.6	73.9/112.5	70.9/118.7	59.3/85.9	54.3/89.5
300	17.3/36.9	32.7/31.1	38.6/75.1	35.6/81.1	71.2/106.5	68.2/112.2	55.8/84.7	52.8/90.1
400	17.3/36.2	38/36.1	31.4/71.9	28.4/80.8	69.4/108	66.4/116.9	53.3/71.9	50.3/76.8
500	17.3/34.8	42.8/40.4	25.2/55.7	22.2/62.9	67.9/96.1	64.9/103.4	51.3/79.6	48.3/83.6
600	17.3/32.8	47.1/44.4	19.6/52.5	16.6/57.4	66.7/97	63.7/101.8	49.7/69.9	46.7/71.7
※700	33.5	48.2	50.6	57.8	98.8	106.0	59.9	61.0
※800	29.9	51.8	42.8	51.9	94.6	103.7	60.9	62.9
※850	31.0	53.9	28.4	40.8	82.2	94.7	48.1	55.2

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

※Note: Values for frequencies beyond 600MHz are for information only

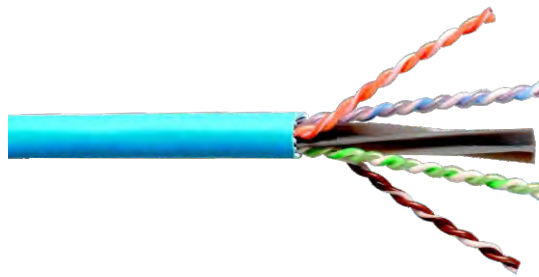
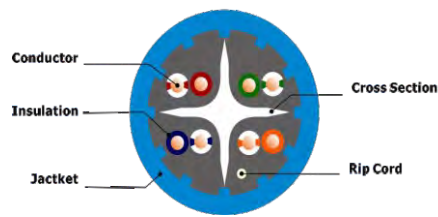
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2 °C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112402	S/FTP CAT7 600Mhz 4PR 23AWG PVC ...305M(1000FT)
NO.7112403	S/FTP CAT7 600Mhz 4PR 23AWG PVC CM UL/ETL E***** ...305M(1000FT)
NO.7112404	S/FTP CAT7 600Mhz 4PR 23AWG PVC CMR UL/ETL E***** ...305M(1000FT)
NO.7112406	S/FTP CAT7 600Mhz 4PR 23AWG LSZH ...305M(1000FT)



U/UTP CAT6A CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T 、 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、 POE Type1,2,3,4

Construction

Conductor:	0.565±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.02±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section:	Modified Polyethylene
Rip Cord:	Cotton or Fibre
Out Jacket:	PVC ILS , PVC ILS CM UL/ETL , LSZH , PVC ILS CMR UL/ETL

※ ILS: Round jacket with internal Longitudinal Striations

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	4% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 200 MHz : 100±22 Ohms 200 - 500 MHz : 100±32 Ohms
Max Frequency	500MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



U/UTP CAT6A CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.1	570.0	45.0	74.3	72.3	67.8	64.8
4	23.0	3.8	552.0	45.0	65.3	63.3	55.8	52.8
10	25.0	6.0	545.4	45.0	59.3	57.3	47.8	44.7
16	25.0	7.6	543.0	45.0	56.2	54.2	43.7	40.7
20	25.0	8.5	542.1	45.0	54.8	52.8	41.8	38.8
31.25	23.6	10.7	540.4	45.0	51.9	49.9	37.9	34.9
62.5	21.5	15.4	538.6	45.0	47.4	45.4	31.9	28.9
100	20.1	19.8	537.6	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	536.1	45.0	39.8	37.8	21.8	18.8
300	17.3	36.4	536.1	45.0	37.1	35.1	18.3	15.3
400	17.3	43.0	535.8	45.0	35.3	33.3	15.8	12.8
500	17.3	45.3	535.6	45.0	33.8	31.8	13.8	10.8

※Note: The above transmission performance for the 100M, 20±2℃ under the conditions tested.

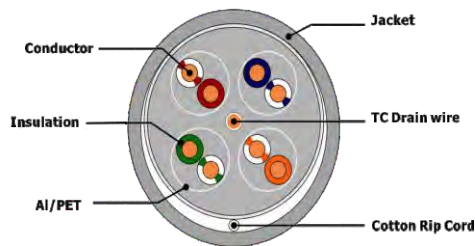
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2℃*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112302	U/UTP CAT6A 4PR 23AWG PVC ...305M(1000FT)
NO.7112303	U/UTP CAT6A 4PR 23AWG PVC CM E***** ...305M(1000FT)
NO.7112304	U/UTP CAT6A 4PR 23AWG PVC CMR E***** ...305M(1000FT)
NO.7112306	U/UTP CAT6A 4PR 23AWG LSZH ...305M(1000FT)



U/FTP CAT6A CABLE



COMPLIANCE (Reference Standard and Certificates)

IEC/ISO 61156-5; ANSI/TIA568C.2; ISO/IEC 11801

Application Support

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T. (IEEE 802.3).
- Token Ring 4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s. (IEEE 802.5).

Construction

Conductor:	23 AWG Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.35 mm Skin-Foam-Skin
Insulation Colors:	Blue-White/Blue, Orange-White/Orange Green-White/Green, Brown-White/Brown
Overall Shield:	Individual Pair shield, Al/PET Foil, Foil face out
Drain Wire:	0.40±0.005mm TC
Rip Cord:	Cotton
Out Jacket:	PVC , PVC CM , PVC CMR , LSZH

Electrical Characteristics

Impedance	4 - 100 MHz : 100±15 Ohms
	100 - 200 MHz : 100±22 Ohms
	200 - 500 MHz : 100±32 Ohms
Max. Conductor DC Resistance 20°C	8.7 Ohms/100m
Res. unbalance (%)	Max. 2.5
Pair to Ground Capacitance Unbalance	330 pF/100m
Transfer Impedance	Max 10 mOhms/m @100Mhz
Installation temp.	-30 - 50 °C
Operation temp.	-20 - 75 °C



U/FTP CAT6A CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.1	570	45	74.3	72.3	67.8	64.8
4	23.0	3.8	552	45	65.3	63.3	55.8	52.8
10	25.0	6.0	545	45	59.3	57.3	47.8	44.7
16	25.0	7.6	543	45	56.2	54.2	43.7	40.7
20	25.0	8.5	542	45	54.8	52.8	41.8	38.8
31.25	25.0	10.7	540	45	51.9	49.9	37.9	34.9
62.5	21.5	15.4	539	45	47.4	45.4	31.9	28.9
100	20.1	19.8	538	45	44.3	42.3	27.8	24.8
200	18.0	29.0	537	45	39.8	37.8	21.8	18.8
300	17.3	36.4	536	45	37.1	35.1	18.3	15.3
400	17.3	43.0	536	45	35.3	33.3	15.8	12.8
500	17.3	45.3	536	45	33.8	31.8	13.8	10.8

Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

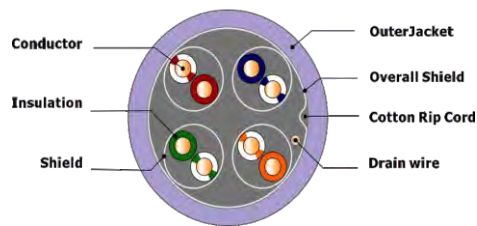
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2 °C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112322	U/FTP CAT6A 4PR 23AWG PVC XXX
NO.7112323	U/FTP CAT6A 4PR 23AWG PVC CM XXX
NO.7112324	U/FTP CAT6A 4PR 23AWG PVC CMR XXX
NO.7112326	U/FTP CAT6A 4PR 23AWG LSZH XXX



F/FTP CAT6A CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T 、 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.57±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.33±0.05 mm Foam PE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded:	AL/PET Foil,100% Coverage Cover every pair
Overall Shield:	Aluminum Foil
Drain Wire:	0.40±0.005mm TC
Rip Cord:	Cotton or Fibre
Out Jacket:	PVC CM UL/ETL , LSZH PVC CMR UL/ETL , PVC

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 750 MHz : 100±25 Ohms
Max Frequency	750MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	74%
Delay Skew	≤ 45ns/100m



F/FTP CAT6A CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	22.8	1.9	570.0	45.0	74.3	72.3	67.8	64.8
4	25.6	3.6	552.0	45.0	65.3	63.3	55.8	52.8
10	31.4	5.5	545.4	45.0	59.3	57.3	47.8	44.7
16	31.4	7.1	543.0	45.0	56.2	54.2	43.7	40.7
20	33.0	8.0	542.1	45.0	54.8	52.8	41.8	38.8
31.25	34.2	10.1	540.4	45.0	51.9	49.9	37.9	34.9
62.5	32.0	14.3	538.6	45.0	47.4	45.4	31.9	28.9
100	37.3	18.2	537.6	45.0	44.3	42.3	27.8	24.8
200	30.3	25.8	536.1	45.0	39.8	37.8	21.8	18.8
300	27.1	31.9	536.1	45.0	37.1	35.1	18.3	15.3
400	25.5	37.2	535.8	45.0	35.3	33.3	15.8	12.8
500	20.8	41.6	535.6	45.0	33.8	31.8	13.8	10.8
※550	22.8	44.0						
※625	21.0	46.2						
※750	18.8	51.9						

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

※Note: Values for frequencies beyond 500mHZ are for information only

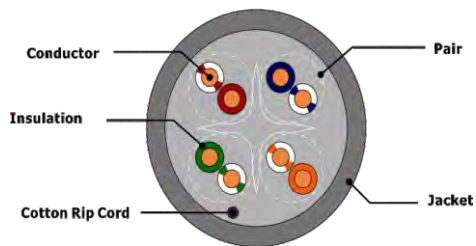
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2 °C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO. 7112332	F/FTP CAT6A 4PR 23AWG PVC ...305M(1000FT)
NO. 7112333	F/FTP CAT6A 4PR 23AWG PVC CM UL/ETL E***** ...305M(1000FT)
NO. 7112334	F/FTP CAT6A 4PR 23AWG PVC CMR UL/ETL E***** ...305M(1000FT)
NO. 7112336	F/FTP CAT6A 4PR 23AWG LSZH ...305M(1000FT)



U/UTP CAT6 CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2、ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T、1000BASE-TX、100BASE-T、100BASE-TX、100VG-AnyLAN、ATM
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.57±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.02±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section	Modified Polyethylene
Rip Cord:	Cotton or Fibre
Out Jacket:	PE , PVC CM UL/ETL , LSZH PVC , PVC CMR UL/ETL

※ Conductor from 0.55mm-0.57mm all can pass Fluke test, the Headroom of 0.57mm is bigger than 0.55mm

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 250 MHz : 100±20 Ohms
Max Frequency	250MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	65%
Delay Skew	≤ 45ns/100m



U/UTP CAT6 CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	570.0	45.0	74.0	72.0	67.8	64.8
4	23.0	3.8	552.0	45.0	65.0	63.0	55.7	52.7
10	25.0	6.0	545.0	45.0	59.0	57.0	47.8	44.8
16	25.0	7.6	543.0	45.0	56.0	54.0	43.7	40.7
20	25.0	8.5	542.0	45.0	55.0	53.0	41.7	38.7
31.25	23.6	10.7	540.0	45.0	52.0	50.0	37.9	34.9
62.5	21.5	15.4	539.0	45.0	47.0	45.0	31.8	28.8
100	20.1	19.8	538.0	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	537.0	45.0	39.7	37.7	21.7	18.7
250	17.3	32.8	536.0	45.0	38.0	36.0	19.8	16.8

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

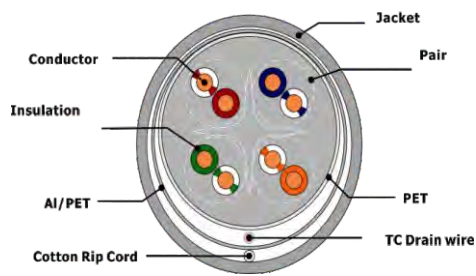
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2°C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112201	U/UTP CAT6 4PR 23AWG PE ...305M(1000FT)
NO.7112202	U/UTP CAT6 4PR 23AWG PVC ...305M(1000FT)
NO.7112203	U/UTP CAT6 4PR 23AWG PVC CM UL/ETL E***** ...305M(1000FT)
NO.7112204	U/UTP CAT6 4PR 23AWG PVC CMR UL/ETL E***** ...305M(1000FT)
NO.7112206	U/UTP CAT6 4PR 23AWG PVC LSZH ...305M(1000FT)



F/UTP CAT6 CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 1000BASE-TX、 100BASE-T 、 100BASE-TX、 100VG-AnyLAN、 ATM
- 1Volp、 ISDN、 Token、 100MTPPDM、 Analogand Datavideo、 POE Type1,2,3,4

Construction

Conductor:	0.57±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.02±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section:	Modified Polyethylene
Shield 1:	PET Foil
Drain Wire:	0.4mmTC/0.5mm CCS
Shield 2:	Al/PET Foil, Foil Face Out
Rip Cord:	Cotton or Fibre
Out Jacket:	PE , PVC CM UL/ETL , LSZH PVC , PVC CMR UL/ETL

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 250 MHz : 100±20 Ohms
Max Frequency	250MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	63%
Delay Skew	≤ 45ns/100m

※ Conductor from 0.56mm-0.57mm all can pass Fluke test, the Headroom of 0.57mm is bigger than 0.56mm



F/UTP CAT6 CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	570.0	45.0	74.0	72.0	67.8	64.8
4	23.0	3.8	552.0	45.0	65.0	63.0	55.7	52.7
10	25.0	6.0	545.0	45.0	59.0	57.0	47.8	44.8
16	25.0	7.6	543.0	45.0	56.0	54.0	43.7	40.7
20	25.0	8.5	542.0	45.0	55.0	53.0	41.7	38.7
31.25	23.6	10.7	540.0	45.0	52.0	50.0	37.9	34.9
62.5	21.5	15.4	539.0	45.0	47.0	45.0	31.8	28.8
100	20.1	19.8	538.0	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	537.0	45.0	39.7	37.7	21.7	18.7
250	17.3	32.8	536.0	45.0	38.0	36.0	19.8	16.8

※Note: The above transmission performance for the 100M, 20±2℃ under the conditions tested.

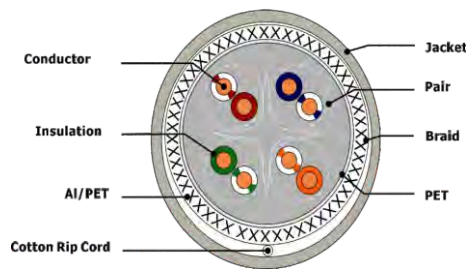
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2℃*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112211	F/UTP CAT6 4PR 23AWG PE ...305M(1000FT)
NO.7112212	F/UTP CAT6 4PR 0.57mm Copper PVC Jacket ...305M(1000FT)
NO.7112213	F/UTP CAT6 4PR 23AWG PVC CM UL/ETL E***** ...305M(1000FT)
NO.7112214	F/UTP CAT6 4PR 23AWG PVC CMR UL/ETL E***** ...305M(1000FT)
NO.7112216	F/UTP CAT6 4PR 23AWG LSZH ...305M(1000FT)



SF/UTP CAT6 CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 1000BASE-TX、 100BASE-T 、 100BASE-TX、 100VG-AnyLAN、 ATM
- 1Volp、 ISDN、 Token、 100MTPPDM、 Analogand Datavideo、 POE Type1,2,3,4

Construction

Conductor:	0.57±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.18±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section:	Modified Polyethylene
Shielded 1:	PET Foil
Shielded 2:	Al/PET Foil, Foil Face Out
Shielded 3:	Al_Mg Braiding
Out Jacket:	UV-PE , PVC , LSZH

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 250 MHz : 100±20 Ohms
Max Frequency	250MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	63%
Delay Skew	≤ 45ns/100m

※ Conductor from 0.55mm-0.57mm all can pass Fluke test, the Headroom of 0.57mm is bigger than 0.55mm



SF/UTP CAT6 CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	570.0	45.0	74.0	72.0	67.8	64.8
4	23.0	3.8	552.0	45.0	65.0	63.0	55.7	52.7
10	25.0	6.0	545.0	45.0	59.0	57.0	47.8	44.8
16	25.0	7.6	543.0	45.0	56.0	54.0	43.7	40.7
20	25.0	8.5	542.0	45.0	55.0	53.0	41.7	38.7
31.25	23.6	10.7	540.0	45.0	52.0	50.0	37.9	34.9
62.5	21.5	15.4	539.0	45.0	47.0	45.0	31.8	28.8
100	20.1	19.8	538.0	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	537.0	45.0	39.7	37.7	21.7	18.7
250	17.3	32.8	536.0	45.0	38.0	36.0	19.8	16.8

※ Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

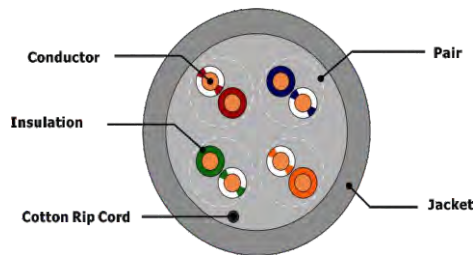
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20±2°C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112221	SF/UTP CAT6 4PR 23AWG COPPER UV-PE ...305M(1000FT)
NO.7112222	SF/UTP CAT6 4PR 23AWG COPPER PVC ...305M(1000FT)
NO. 7112226	SF/UTP CAT6 4PR 23AWG COPPER LSZH ...305M(1000FT)



U/UTP CAT5E CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2、ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T、100BASE-T、10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	24AWG Solid Bare Copper
Pairs:	4 Pairs
Insulation:	0.91±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Rip Cord:	Cotton or Fibre
Out Jacket:	PE , PVC CM UL/ETL , LSZH PVC , PVC CMR UL/ETL

※ Conductor from 0.48mm-0.50mm all can pass Fluke test, the Headroom of 0.50mm is bigger than 0.48mm

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



U/UTP CAT5E CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.2	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.2	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.4	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

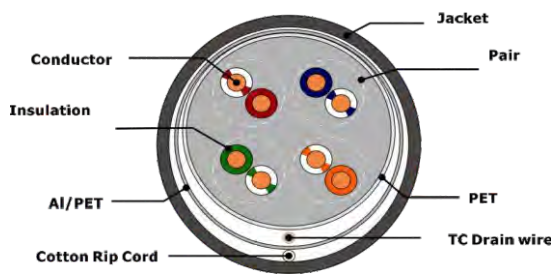
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2°C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112101	U/UTP CAT5E 4PR 24AWG PVC ...305M(1000FT)
NO.7112102	U/UTP CAT5E 4PR 24AWG PVC ...305M(1000FT)
NO.7112103	U/UTP CAT5E 4PR 24AWG PVC ...305M(1000FT)
NO.7112104	U/UTP CAT5E 4PR 24AWG PVC CMR UL/ETL E***** ...305M(1000FT)
NO.7112106	U/UTP CAT5E 4PR 24AWG LSZH...305M(1000FT)



F/UTP CAT5E CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.50±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.03±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded 1:	PET Foil
Drain Wire:	0.40±0.005mm TC
Overall Shield:	Al/PET Foil,Foil face out
Rip Cord:	Cotton or Fibre
Out Jacket:	PE , PVC CM UL/ETL , LSZH PVC , PVC CMR UL/ETL

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	0.67
Delay Skew	≤ 45ns/100m
DC Resistance	<9.38 Ohms/100m @20℃



F/UTP CAT5E CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.2	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.2	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.4	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

※Note: The above transmission performance for the 100M, 20±2℃ under the conditions tested.

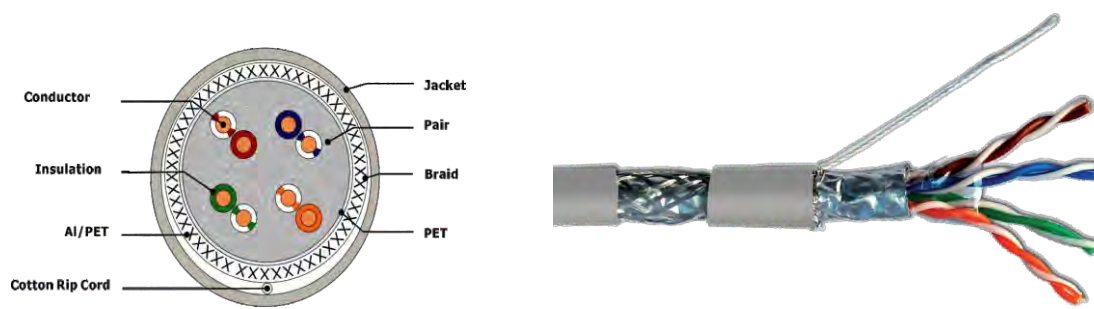
Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2℃*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112111	F/UTP CAT5E 4PR 24AWG PE ...305M(1000FT)
NO.7112112	F/UTP CAT5E 4PR 24AWG PVC ...305M(1000FT)
NO.7112113	F/UTP CAT5E 4PR 24AWG PVC CM UL/ETL ...305M(1000FT)
NO.7112114	F/UTP CAT5E 4PR 24AWG PVC CMR UL/ETL ...305M(1000FT)
NO.7112116	F/UTP CAT5E 4PR 24AWG LSZH ...305M(1000FT)



SF/UTP CAT5E CABLE



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、 POE Type1,2,3,4

Construction

Conductor:	0.50±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.03±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded 1:	PET Foil Overall
Shielded 2:	Al/PET Foil,Foil face out Overall
Shielded 3:	Braiding TC or AL_Mg
Rip Cord:	Cotton or Fibre
Out Jacket:	UV-PE , PVC , LSZH

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



SF/UTP CAT5E CABLE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.1	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.2	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

Jacket Physical Properties

Jacket					
Aging				Cold Bend	
	Item	Aging Period	100 °*24H*7D	Cold Period	-20 ±2°C*4H
		Before Aging	After Aging	Bend Radius	8*Cable O.D.
PVC	Tensile Strength	≥13.5 Mpa	≥12.5 Mpa	No Visible Cracks	
	Elongation	≥150 %	≥125 %		
LSZH	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥125%	≥100%		
PE	Tensile Strength	≥10.0 Mpa	≥8.0 Mpa	No Visible Cracks	
	Elongation	≥350 %	≥350 %		

P/N	Description
NO.7112121	SF/UTP CAT5E 4PR 24AWG BC UV-PE ...305M(1000FT)
NO.7112122	SF/UTP CAT5E 4PR 24AWG BC PVC ...305M(1000FT)
NO.7112126	SF/UTP CAT5E 4PR 24AWG BC LSZH ...305M(1000FT)



S/FTP CAT 7 600Mhz CMP UL/ETL

S/FTP CAT 7 BC CMP



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T 、 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.585±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.50±0.05 mm FEP
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded:	AL/PET Foil,100% Coverage Cover every pair
Overall Shield:	Aluminum Foil
Braiding:	TC or Al_Mg, 40% Coverage
Rip Cord:	Kelvar
Out Jacket:	7.8±0.3 mm PVC CMP UL/ETL

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	2% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 750 MHz : 100±25 Ohms
Max Frequency	750MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	74%
Delay Skew	≤ 25ns/100m



S/FTP CAT 7 600Mhz CMP UL/ETL

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	ACR	PSACR	NEXT (Min.)	PSNEXT (Min.)	ACR-F	PS ACR-F
MHz	dB	dB/100m	dB/100m	dB/100m	dB	dB	dB/100m	dB/100m
1	20/32.7	2.1/1.8	75.9/101.9	72.9/108.2	78/103.7	75/110.5	78/94.8	75/102.3
4	23/27.4	3.7/3.4	74.3/103.4	71.3/113.8	78/106.8	75/117.2	78/90.5	75/91.8
10	25/35.9	5.8/5.3	72.2/106.3	69.2/115.8	78/111.6	75/121.1	78/109.5	75/116.2
16	25/36.6	7.3/6.8	70.7/107	67.7/115.1	78/113.9	75/121.9	78/107.5	75/114.5
20	25/36.4	8.2/7.6	69.8/102.5	66.8/109.7	78/110.2	75/117.4	78/115.7	75/117.7
31.25	23.6/39.2	10.3/9.7	67.7/102.7	64.7/109.8	78/112.4	75/119.5	75.4/106.8	72.4/109.8
62.5	21.5/33.6	62.5/13.9	63.4/100.1	60.4/107.7	78/113.5	75/121.6	69.4/102.4	66.4/109.8
100	20.1/37.8	18.5/17.7	59.5/90.6	56.5/99.8	78/108.3	75/118.7	65.3/100.8	62.3/103
200	18/38.9	26.5/25.2	47.4/87.3	44.4/93.6	73.9/112.5	70.9/118.7	59.3/85.9	54.3/89.5
300	17.3/36.9	32.7/31.1	38.6/75.1	35.6/81.1	71.2/106.5	68.2/112.2	55.8/84.7	52.8/90.1
400	17.3/36.2	38/36.1	31.4/71.9	28.4/80.8	69.4/108	66.4/116.9	53.3/71.9	50.3/76.8
500	17.3/34.8	42.8/40.4	25.2/55.7	22.2/62.9	67.9/96.1	64.9/103.4	51.3/79.6	48.3/83.6
600	17.3/32.8	47.1/44.4	19.6/52.5	16.6/57.4	66.7/97	63.7/101.8	49.7/69.9	46.7/71.7
※700	33.5	48.2	50.6	57.8	98.8	106.0	59.9	61.0
※800	29.9	51.8	42.8	51.9	94.6	103.7	60.9	62.9
※850	31.0	53.9	28.4	40.8	82.2	94.7	48.1	55.2

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

※Note: Values for frequencies beyond 600mHz are for information only

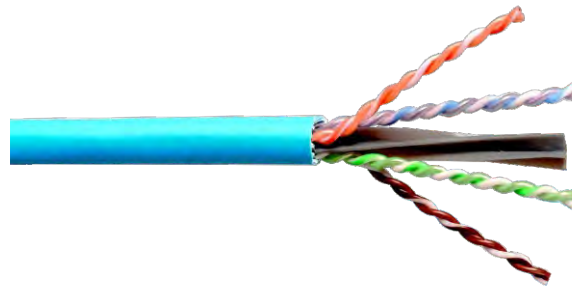
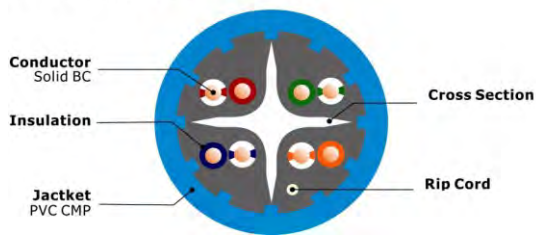
Order Informations

Marking	HELLOSIGNAL NO.7112405 S/FTP CAT7 600Mhz 4PR 23AWG PVC CMP UL/ETL E***** ...305M(1000FT) (or Per customer's request)
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U/UTP CAT 6A ILS PVC CMP UL/ETL

U/UTP CAT 6A ILS PVC CMP



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2、ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T、1000BASE-T、100BASE-T、10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.565±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.02±0.05 mm FEP
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section:	FEP OR LSZH CROSSWEB
Rip Cord:	Kevlar
Out Jacket:	6.5±0.2 mm PVC CMP

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	4% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 200 MHz : 100±22 Ohms 200 - 500 MHz : 100±32 Ohms
Max Frequency	500MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



U/UTP CAT 6A ILS PVC CMP UL/ETL

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.1	570.0	45.0	74.3	72.3	67.8	64.8
4	23.0	3.8	552.0	45.0	65.3	63.3	55.8	52.8
10	24.5	6.0	545.4	45.0	59.3	57.3	47.8	44.7
16	25.0	7.6	543.0	45.0	56.2	54.2	43.7	40.7
20	25.0	8.5	542.1	45.0	54.8	52.8	41.8	38.8
31.25	23.6	10.7	540.4	45.0	51.9	49.9	37.9	34.9
62.5	21.5	15.4	538.6	45.0	47.4	45.4	31.9	28.9
100	20.1	19.8	537.6	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	536.1	45.0	39.8	37.8	21.8	18.8
300	16.8	36.4	536.1	45.0	37.1	35.1	18.3	15.3
400	15.9	43.0	535.8	45.0	35.3	33.3	15.8	12.8
500	15.2	45.3	535.6	45.0	33.8	31.8	13.8	10.8

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

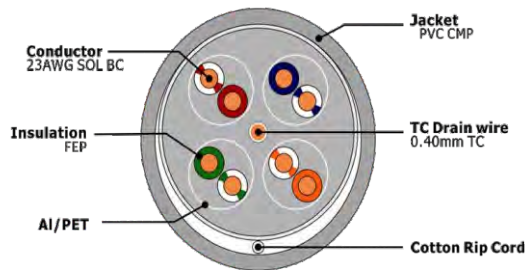
Order Informations

Marking	HELLOSIGNAL NO.7112305 U/UTP CAT6A 4PR 23AWG PVC CMP E***** ...305M(1000FT) (or Per customer's request)
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U/FTP CAT 6A PVC CMP UL/ETL

U/FTP CAT 6A BC PVC CMP



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 1000BASE-TX、 100BASE-T 、 100BASE-TX、 100VG-AnyLAN、 ATM
- 1Volp、 ISDN、 Token、 100MTPPDM、 Analogand Datavideo、 POE Type1,2,3,4

Construction

Conductor:	23 AWG Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.02 mm FEP
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Overall Shield:	Individual Pair shield,Al/PET Foil,Foil face out
Rip Cord:	Kevlar
Out Jacket:	8.0±0.2 mm PVC CMP

Electrical Characteristics

Impedance	4 - 100 MHz : 100±15 Ohms
	100 - 200 MHz : 100±22 Ohms
	200 - 500 MHz : 100±32 Ohms
Max.Conductor DC Resistance 20℃	8.7 Ohms/100m
Res. unbalance (%)	Max. 2.5
Pair to Ground Capacitance Unbalance	330 pF/100m
Transfer Impedance	Max 10 mOhms/m @100Mhz
Installation temp.	-30 - 50℃
Operation temp.	-20 - 75℃



U/FTP CAT 6A PVC CMP UL/ETL

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.1	570.0	45.0	74.3	72.3	67.8	64.8
4	23.0	3.8	552.0	45.0	65.3	63.3	55.8	52.8
10	25.0	6.0	545.0	45.0	59.3	57.3	47.8	44.7
16	25.0	7.6	543.0	45.0	56.2	54.2	43.7	40.7
20	25.0	8.5	542.0	45.0	54.8	52.8	41.8	38.8
31.25	25.0	10.7	540.0	45.0	51.9	49.9	37.9	34.9
62.5	21.5	15.4	539.0	45.0	47.4	45.4	31.9	28.9
100	20.1	19.8	538.0	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	537.0	45.0	39.8	37.8	21.8	18.8
300	17.3	36.4	536.0	45.0	37.1	35.1	18.3	15.3
400	17.3	43.0	536.0	45.0	35.3	33.3	15.8	12.8
500	17.3	45.3	536.0	45.0	33.8	31.8	13.8	10.8

Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

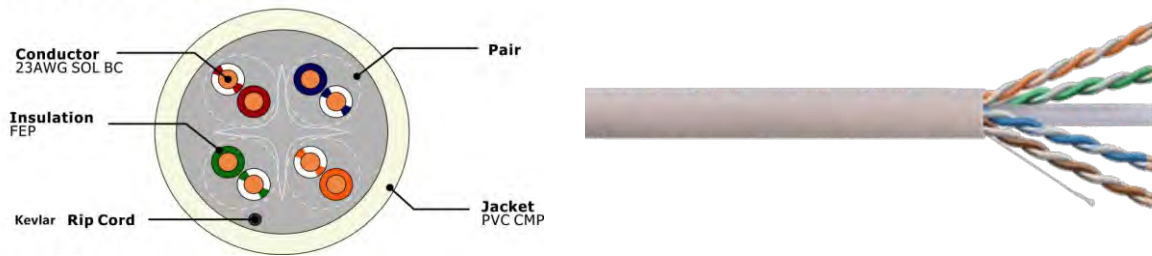
Order Informations

Marking	HELLOSIGNAL NO.7112325 U/FTP CAT6A 4PR 23AWG PVC CMP XXX (or Per customer's request)
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U/UTP CAT 6 PVC CMP UL/ETL

U/UTP CAT 6 BC PVC CMP



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 1000BASE-TX、100BASE-T 、 100BASE-TX、100VG-AnyLAN、ATM
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.57±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.02±0.05 mm FEP
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section:	FEP or LSZH CROSSWEB
Rip Cord:	Kevlar
Out Jacket:	5.6±0.2 mm Plenum PVC

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 250 MHz : 100±20 Ohms
Max Frequency	250MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	65%
Delay Skew	≤ 45ns/100m



U/UTP CAT 6 PVC CMP UL/ETL

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	570.0	45.0	74.0	72.0	67.8	64.8
4	23.0	3.8	552.0	45.0	65.0	63.0	55.7	52.7
10	25.0	6.0	545.0	45.0	59.0	57.0	47.8	44.8
16	25.0	7.6	543.0	45.0	56.0	54.0	43.7	40.7
20	25.0	8.5	542.0	45.0	55.0	53.0	41.7	38.7
31.25	23.6	10.7	540.0	45.0	52.0	50.0	37.9	34.9
62.5	21.5	15.4	539.0	45.0	47.0	45.0	31.8	28.8
100	20.1	19.8	538.0	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	537.0	45.0	39.7	37.7	21.7	18.7
250	17.3	32.8	536.0	45.0	38.0	36.0	19.8	16.8

※ Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

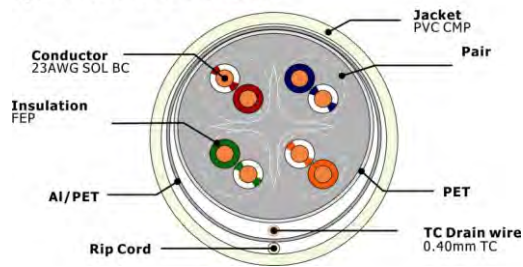
Order Informations

Marking	HELLOSIGNAL NO.7112205 U/UTP CAT6 4PR 23AWG PVC CMP UL/ETL E***** ...305M(1000FT) (or Per customer's request)
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F/UTP CAT 6 PVC CMP UL/ETL

F/UTP CAT 6 BC PVC CMP



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2、ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T、1000BASE-TX、100BASE-T、100BASE-TX、100VG-AnyLAN、ATM
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.57±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.15±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section:	FEP or LSZH Crossweb
Shield 1:	PET Foil
Drain Wire:	0.4mmTC
Shield 2:	Al/PET Foil, Foil Face Out
Rip Cord:	Kevlar
Out Jacket:	7.4±0.3 mm Plenum PVC

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 250 MHz : 100±20 Ohms
Max Frequency	250MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	63%
Delay Skew	≤ 45ns/100m



F/UTP CAT 6 PVC CMP UL/ETL

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	570.0	45.0	74.0	72.0	67.8	64.8
4	23.0	3.8	552.0	45.0	65.0	63.0	55.7	52.7
10	25.0	6.0	545.0	45.0	59.0	57.0	47.8	44.8
16	25.0	7.6	543.0	45.0	56.0	54.0	43.7	40.7
20	25.0	8.5	542.0	45.0	55.0	53.0	41.7	38.7
31.25	23.6	10.7	540.0	45.0	52.0	50.0	37.9	34.9
62.5	21.5	15.4	539.0	45.0	47.0	45.0	31.8	28.8
100	20.1	19.8	538.0	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	537.0	45.0	39.7	37.7	21.7	18.7
250	17.3	32.8	536.0	45.0	38.0	36.0	19.8	16.8

※ Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

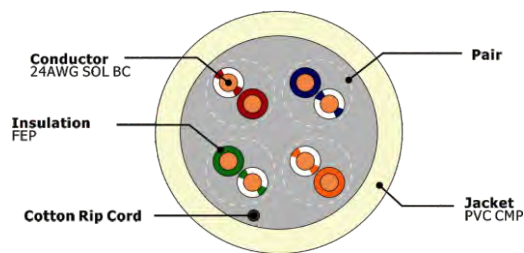
Order Informations

Marking	HELLOSIGNAL NO.7112215 F/UTP CAT6 4PR 23AWG PVC CMP UL/ETL E***** ...305M(1000FT) (or Per customer's request)
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U/UTP CAT 5E PVC CMP UL/ETL

U/UTP CAT 5E BC PVC CMP



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2、ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T、100BASE-T、10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.50mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	0.90±0.05 mm FEP
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Rip Cord:	Kevlar
Out Jacket:	5.1±0.2 mm PVC Plenum

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



U/UTP CAT 5E PVC CMP UL/ETL

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	521.0	45.0	65.3	62.3	61.0	61.0
4	23.0	3.9	504.0	45.0	56.3	53.3	48.0	48.0
10	25.0	6.2	498.0	45.0	50.3	47.3	41.0	41.0
16	25.0	7.9	496.0	45.0	47.2	44.2	36.0	36.0
20	25.0	8.9	495.0	45.0	45.8	42.8	34.0	34.0
31.25	23.6	11.2	494.0	45.0	42.9	39.9	31.0	31.0
62.5	21.5	16.2	492.0	45.0	38.4	35.4	25.0	25.0
100	20.1	21.0	491.0	45.0	35.3	32.3	21.0	21.0

※ Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

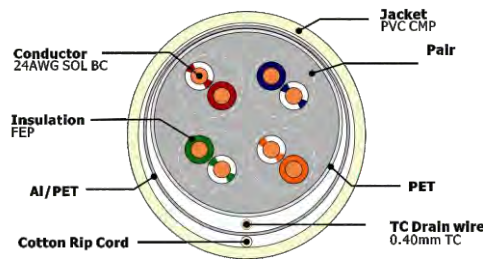
Order Informations

Marking	HELLOSIGNAL NO.71121045 U/UTP CAT5E 4PR 24AWG PVC CMP UL/ETL E*****...305M(1000FT) (or Per customer's request)
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F/UTP CAT 5E PVC CMP UL/ETL

F/UTP CAT 5E BC PVC CMP



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.50±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.01±0.05 mm FEP
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded 1:	PET Foil
Drain Wire:	0.40±0.005mm TC
Overall Shield:	Al/PET Foil,Foil face out
Rip Cord:	Kevlar
Out Jacket:	6.0±0.2 mm PVC CMP UL/ETL

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



F/UTP CAT 5E PVC CMP UL/ETL

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.2	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.2	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.4	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

※ Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

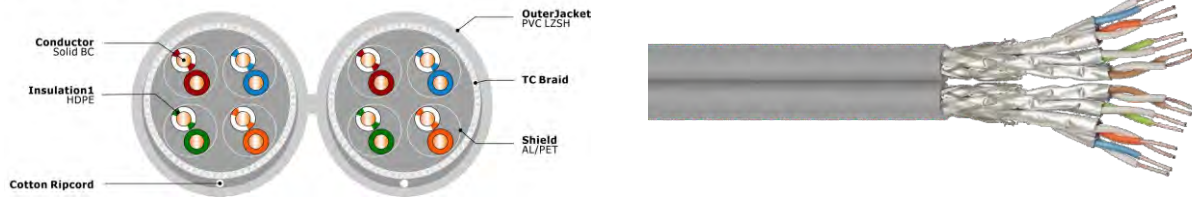
Order Informations

Marking	HELLOSIGNAL NO.7112115 F/UTP CAT5E 4PR 24AWG PVC CMP UL/ETL ...305M(1000FT) (or Per customer's request)
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DUAL S/FTP CAT 7A 1000MHz LSZH FIG-8

Dual S/UTP CAT7A BC PVC LSZH



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T 、 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.58±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.35±0.05 mm Foam PE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded :	AL/PET Foil,100% Coverage Cover every pair
Overall Shield:	Aluminum Foil
Braiding:	TC , 55% Coverage
Rip Cord:	Yes
Out Jacket:	8.0mm×8.0mm LSZH

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	2% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 250 MHz : 100±22 Ohms 250 - 1000 MHz : 100±25 Ohms
Max Frequency	750MHz
Capacitance Unbalance	≤330 pF/100m
NVP(传输速率)	74%
Delay Skew	≤ 25ns/100m



DUAL S/FTP CAT 7A 1000Mhz LSZH FIG-8

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	ACR	PSACR	NEXT (Min.)	PSNEXT (Min.)	ACR-F	PS ACR-F
MHz	dB	dB/100m	dB/100m	dB/100m	dB	dB	dB/100m	dB/100m
1	20/31.1	1.9/1.6	76.1/103.1	73.1/100.1	78/104.5	75/102.5	77/96.5	75/94.5
4	23/34.1	3.5/3.1	74.6/102.2	71.6/99.2	78/104.5	75/102.5	77/96.5	75/94.5
10	25/35.1	5.4/4.9	72.6/100.1	69.6/97.2	78/104.5	75/102.5	74/96.5	71/94.5
16	25/35.1	6.8/6.3	71.2/99.5	68.2/96.2	78/104.5	75/102.5	70/96.5	67/94.5
20	25/35.1	7.5/7.1	70.3/98.2	67.4/95.1	78/104.5	75/102.5	68/96.5	65/94.5
31.25	23.6/34.1	9.6/8.9	68.5/96.5	65.5/93.1	78/104.5	75/102.5	64/93.5	61/91.5
62.5	21.5/34.1	13.7/12.8	64.3/92.3	61.3/89.1	78/104.5	75/102.5	58/88.5	55/86.5
100	20.1/31.2	17.5/16.5	58.5/89.1	55.5/86.1	76/102.5	73/100.5	54/82.5	51/80.5
200	18/29.5	25.3/23.5	46.2/79.5	43.2/77.2	71/102.5	68.5/100.5	48/78.5	45/75.5
300	17.3/28.5	31.5/28.9	37.3/73.5	34.3/68.1	69/102.5	66.6/97.5	44/70.5	41/68.5
400	17.3/28.5	36.9/33.1	30.1/62.5	27.1/60.1	67.5/94.5	64.5/93.5	39/70.5	39/59.5
550	17.3/28.5	44.1/40.2	20.8/55.5	17.8/53.1	65/94.5	62.5/93.5	39/60.5	36.5/56.5
600	17.3/28.5	44.2/41.7	18.1/53.1	15.1/51.5	64.5/95.5	61.5/93.5	38/55.5	35/53.5
800	28.5	47.6	7.9/42.1	39.0	62.5/90.5	59.5/87.5	47.0	44.0
1000	27.0	54.5	31.0	29.0	61.5/85.5	58.5/83.5	40.0	38.0
※1200	27.0	59.8	20.0	17.0	80.0	77.0	35.0	33.0

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

※Note: Values for frequencies beyond 1000mHZ are for information only

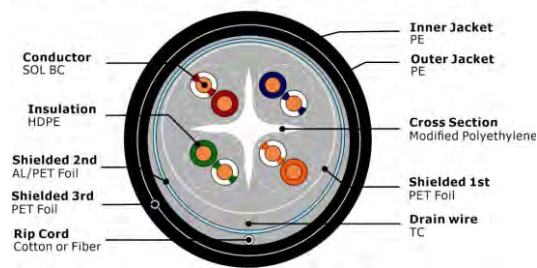
Order Informations

Marking	HELLOSIGNAL NO.2×7112426 S/FTP CAT7A 1000Mhz 4PR 23AWG LSZH ...500M
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F/UTP CAT 6A BC Jelly Double PE

F/UTP CAT 6A BC JELLY DOUBLE PE 2



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 10GBASE-T 、 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.565±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.14±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section:	Modified Polyethylene
Filling:	Jelly
Shielded 1st:	PET Foil
Drain Wire:	0.40±0.005mm TC
Shielded 2nd:	AL/PET Foil
Rip Cord:	Cotton
Inner Jacket:	7.4±0.3 mm PE
Shielded 3rd:	PET Foil
Out Jacket:	8.9±0.5 mm PE

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.1 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 200 MHz : 100±22 Ohms 200 - 500 MHz : 100±32 Ohms
Max Frequency	500MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	66%
Delay Skew	≤ 45ns/100m



F/UTP CAT 6A BC Jelly Double PE

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.1	570.0	45.0	74.3	72.3	67.8	64.8
4	23.0	3.8	552.0	45.0	65.3	63.3	55.8	52.8
10	25.0	6.0	545.4	45.0	59.3	57.3	47.8	44.7
16	25.0	7.6	543.0	45.0	56.2	54.2	43.7	40.7
20	25.0	8.5	542.1	45.0	54.8	52.8	41.8	38.8
31.25	23.6	10.7	540.4	45.0	51.9	49.9	37.9	34.9
62.5	21.5	15.4	538.6	45.0	47.4	45.4	31.9	28.9
100	20.1	19.8	537.6	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	536.1	45.0	39.8	37.8	21.8	18.8
300	17.3	36.4	536.1	45.0	37.1	35.1	18.3	15.3
400	17.3	43.0	535.8	45.0	35.3	33.3	15.8	12.8
500	17.3	45.3	535.6	45.0	33.8	31.8	13.8	10.8

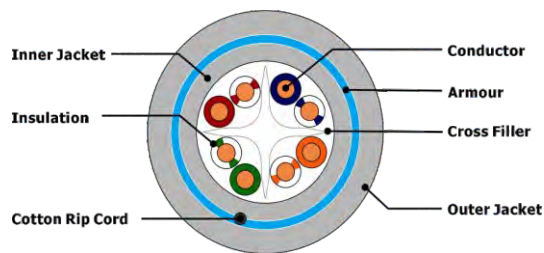
※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

Order Informations

Marking	HELLOSIGNAL NO.7112317 F/UTP CAT6A 4PR 23AWG BC Jelly Double PE...500M
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U/UTP CAT6 PVC ARMOUR PE



Construction

Conductor:	0.57±0.005mm/23AWG solid bare copper
Pairs:	4 Pairs
Insulation:	HDPE, O.D.: 1.01±0.03 mm,
Insulation Colors:	White, Blue, Orange, Green, Brown
Inner Jacket:	LSZH; O.D.:7.2±0.5mm; Thickness:0.9mm (Average)
Armored:	corrugated steel tube; Thickness:0.15mm
Out Jacket:	LSZH; O.D.:11.7±0.5mm; Thickness:1.5mm (Average)

Electrical Characteristics (20 °C)

Linear Resistance:	≤9.5 Ω /100m
Insulation Resistance:	≥5000M Ω .km
Characteristic Impedance:	100±15 Ω
Dielectric Strength:	DC.1KV for 1min no breakdown

Complies with Class E & Cat 6 standards, Supports applications up to 250MHz.



U/UTP CAT6 PVC ARMOUR PE

Performance Characteristics (20 °C,100m)

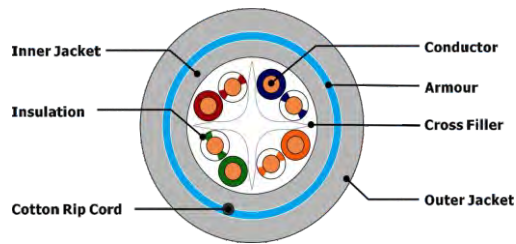
Frequency	ATT (Max.)	Return Loss (Min.)	NEXT (Min.)	PS NEXT (Min.)	EL FEXT (Min.)	PS ELFEXT (Min.)
MHz	dB/100m	dB	dB	dB	dB/100m	dB/100m
1.0	2.0	20.0	75.3	72.3	67.8	64.8
4.0	3.8	23.0	66.3	63.3	56.0	53.0
8.0	5.3	24.5	61.8	58.8	49.9	46.9
10.0	6.0	25.0	60.3	57.3	48.0	45.0
16.0	7.6	25.0	57.2	54.2	43.9	40.9
20.0	8.5	25.0	55.8	52.8	42.0	39.0
25.0	9.5	24.3	54.3	51.3	40.0	37.0
31.3	10.7	23.6	52.9	49.9	38.1	35.1
62.5	15.4	21.5	48.4	45.4	32.1	29.1
100.0	19.8	20.1	45.3	42.3	28.0	25.0
200.0	29.0	18.0	40.8	37.8	22.0	19.0
250.0	32.8	17.3	39.3	36.3	20.0	17.0

Order Informations

Marking	HELLOSIGNAL UTP CAT6 PVC ARMOUR PE...305M(1000FT) (or Per customer's request)
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U/UTP CAT6 LSZH ARMOUR LSZH



Construction

Conductor:	0.57±0.005mm/23AWG solid bare copper
Pairs:	4 Pairs
Insulation:	HDPE, O.D.: 1.01±0.03 mm,
Insulation Colors:	White, Blue, Orange, Green, Brown
Inner Jacket:	LSZH; O.D.: 7.2±0.5mm; Thickness: 0.9mm (Average)
Armored:	corrugated steel tube; Thickness: 0.15mm
Out Jacket:	LSZH; O.D.: 11.7±0.5mm; Thickness: 1.5mm (Average)

Electrical Characteristics (20 °C)

Linear Resistance:	≤9.5 Ω /100m
Insulation Resistance:	≥5000M Ω .km
Characteristic Impedance:	100±15 Ω
Dielectric Strength:	DC. 1KV for 1min no breakdown

Complies with Class E & Cat 6 standards, Supports applications up to 250MHz.



U/UTP CAT6 LSZH ARMOUR LSZH

Performance Characteristics (20 °C,100m)

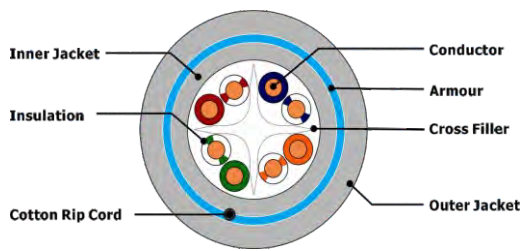
Frequency	ATT (Max.)	Return Loss (Min.)	NEXT (Min.)	PS NEXT (Min.)	EL FEXT (Min.)	PS ELFEXT (Min.)
MHz	dB/100m	dB	dB	dB	dB/100m	dB/100m
1.0	2.0	20.0	75.3	72.3	67.8	64.8
4.0	3.8	23.0	66.3	63.3	56.0	53.0
8.0	5.3	24.5	61.8	58.8	49.9	46.9
10.0	6.0	25.0	60.3	57.3	48.0	45.0
16.0	7.6	25.0	57.2	54.2	43.9	40.9
20.0	8.5	25.0	55.8	52.8	42.0	39.0
25.0	9.5	24.3	54.3	51.3	40.0	37.0
31.3	10.7	23.6	52.9	49.9	38.1	35.1
62.5	15.4	21.5	48.4	45.4	32.1	29.1
100.0	19.8	20.1	45.3	42.3	28.0	25.0
200.0	29.0	18.0	40.8	37.8	22.0	19.0
250.0	32.8	17.3	39.3	36.3	20.0	17.0

Order Informations

Marking	HELLOSIGNAL UTP CAT6 LSZH ARMOUR LSZH...305M(1000FT) (or Per customer's request)
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F/UTP CAT6 LSZH ARMOUR LSZH



Construction

Conductor:	0.57±0.005mm/23AWG solid bare copper
Pairs:	4 Pairs
Insulation:	HDPE, O.D.: 1.01±0.03 mm,
Insulation Colors:	White, Blue, Orange, Green, Brown
Shield:	AL/PET Foil
Inner Jacket:	LSZH; O.D.:7.2±0.5mm; Thickness:0.9mm (Average)
Armored:	corrugated steel tube; Thickness:0.15mm
Out Jacket:	LSZH; O.D.:11.7±0.5mm; Thickness:1.5mm (Average)

Electrical Characteristics (20 °C)

Linear Resistance:	≤9.5 Ω /100m
Insulation Resistance:	≥5000M Ω .km
Characteristic Impedance:	100±15 Ω
Dielectric Strength:	DC.1KV for 1min no breakdown

Complies with Class E & Cat 6 standards, Supports applications up to 250MHz.



F/UTP CAT6 LSZH ARMOUR LSZH

Performance Characteristics (20 °C,100m)

Frequency	ATT (Max.)	Return Loss (Min.)	NEXT (Min.)	PS NEXT (Min.)	EL FEXT (Min.)	PS ELFEXT (Min.)
MHz	dB/100m	dB	dB	dB	dB/100m	dB/100m
1.0	2.0	20.0	75.3	72.3	67.8	64.8
4.0	3.8	23.0	66.3	63.3	56.0	53.0
8.0	5.3	24.5	61.8	58.8	49.9	46.9
10.0	6.0	25.0	60.3	57.3	48.0	45.0
16.0	7.6	25.0	57.2	54.2	43.9	40.9
20.0	8.5	25.0	55.8	52.8	42.0	39.0
25.0	9.5	24.3	54.3	51.3	40.0	37.0
31.25	10.7	23.6	52.9	49.9	38.1	35.1
62.5	15.4	21.5	48.4	45.4	32.1	29.1
100.0	19.8	20.1	45.3	42.3	28.0	25.0
200.0	29.0	18.0	40.8	37.8	22.0	19.0
250.0	32.8	17.3	39.3	36.3	20.0	17.0

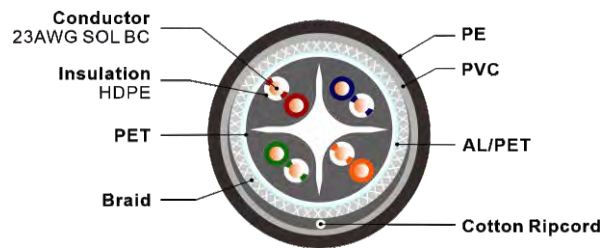
Order Informations

Marking	HELLOSIGNAL F/UTP CAT6 LSZH ARMoured LSZH...305M(1000FT) (or Per customer's request)
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SF/UTP CAT 6 PVC+PE Double Jacket

SF/UTP CAT6 BC PVC+PE Double Jacket



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 1000BASE-TX、 100BASE-T 、 100BASE-TX、 100VG-AnyLAN、 ATM
- 1Volp、 ISDN、 Token、 100MTPPDM、 Analogand Datavideo、 POE Type1,2,3,4

Construction

Conductor:	0.57±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.18±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Cross Section:	Modified Polyethylene
Shielded 1:	PET Foil
Shielded 2:	Al/PET Foil,Foil face out
Shielded 3:	Al_Mg Braiding
Out Jacket 1:	7.7±0.3 mm PVC
Out Jacket 2:	8.9±0.3 mm PE

※ Conductor from 0.55mm-0.57mm all can pass Fluke test, the Headroom of 0.57mm is bigger than 0.55mm

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 250 MHz : 100±20 Ohms
Max Frequency	250MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	63%
Delay Skew	≤ 45ns/100m



SF/UTP CAT 6 PVC+PE Double Jacket

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	570.0	45.0	74.0	72.0	67.8	64.8
4	23.0	3.8	552.0	45.0	65.0	63.0	55.7	52.7
10	25.0	6.0	545.0	45.0	59.0	57.0	47.8	44.8
16	25.0	7.6	543.0	45.0	56.0	54.0	43.7	40.7
20	25.0	8.5	542.0	45.0	55.0	53.0	41.7	38.7
31.25	23.6	10.7	540.0	45.0	52.0	50.0	37.9	34.9
62.5	21.5	15.4	539.0	45.0	47.0	45.0	31.8	28.8
100	20.1	19.8	538.0	45.0	44.3	42.3	27.8	24.8
200	18.0	29.0	537.0	45.0	39.7	37.7	21.7	18.7
250	17.3	32.8	536.0	45.0	38.0	36.0	19.8	16.8

※Note: The above transmission performance for the 100M, 20±2℃ under the conditions tested.

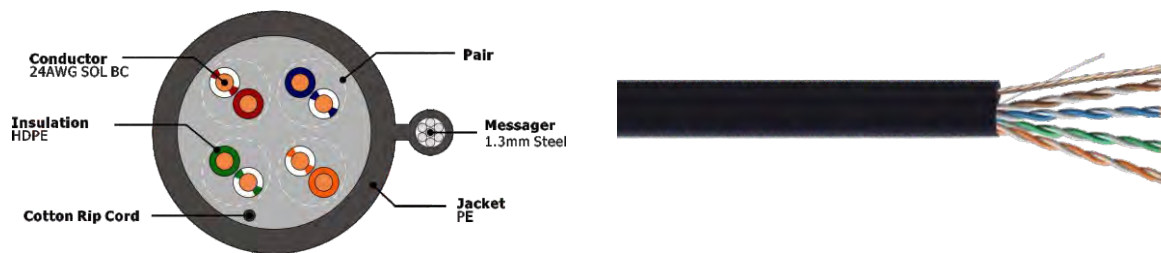
Order Informations

Marking	HELLOSIGNAL NO.7112229 SF/UTP CAT6 4PR 23AWG COPPER PVC+PE Double Jacket ...305M(1000FT) (or Per customer's request)
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U/UTP CAT 5E PE with Messenger

U/UTP CAT 5E BC PE M



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2、ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T、100BASE-T、10BASE-T
- 1Vlp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	24AWG Solid Bare Copper
Pairs:	4 Pairs
Insulation:	0.91±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded:	PET Foil
Rip Cord:	Cotton or Fibre
Out Jacket:	5.1±0.2 mm PE
Messenger:	1.2mm or 7×0.4mm GSW

※ Conductor from 0.48mm-0.50mm all can pass Fluke test, the Headroom of 0.50mm is bigger than 0.48mm

※ GSW= Galvanized steel wire

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



U/UTP CAT 5E PE with Messenger

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.2	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.2	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.4	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

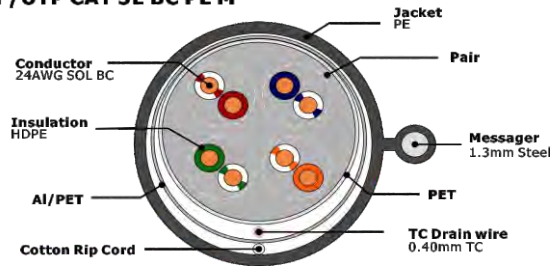
Order Informations

Marking	HELLOSIGNAL NO.7112131 U/UTP CAT5E 4PR 24AWG PE with Messenger ...305M(1000FT) (or Per customer's request)
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F/UTP CAT 5E PE with Messenger

F/UTP CAT 5E BC PE M



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、 POE Type1,2,3,4

Construction

Conductor:	0.50±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.03±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded 1:	PET Foil
Drain Wire:	0.40±0.005mm TC
Overall Shield:	Al/PET Foil,Foil face out
Rip Cord:	Cotton or Fibre
Out Jacket:	6.3±0.2 mm PE
Messenger	1.2mm or 7×0.4mm GSW

※ GSW= Galvanized steel wire

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



F/UTP CAT 5E PE with Messenger

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.2	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.2	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.4	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

※ Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

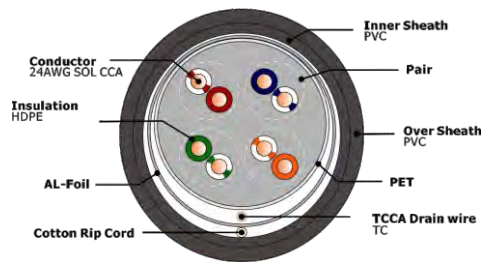
Order Informations

Marking	HELLOSIGNAL NO.7112141 F/UTP CAT5E 4PR 24AWG PE with Messenger ...305M(1000FT) (or Per customer's request)
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F/UTP CAT 5E Double PVC-UV Global Market

F/UTP CAT 5E BC DOUBLE PVC



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.51±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation:	1.08±0.05 mm HDPE
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded 1:	PET Foil
Drain Wire:	0.51±0.005mm TC
Shielded 2:	Al/PET Foil, Foil Face Out
Rip Cord:	Cotton or Fibre
Out Jacket:	6.2±0.2 mm PVC-UV
Out Jacket:	7.5±0.2 mm PVC-UV

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



F/UTP CAT 5E Double PVC-UV Global Market

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.0	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.1	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.2	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

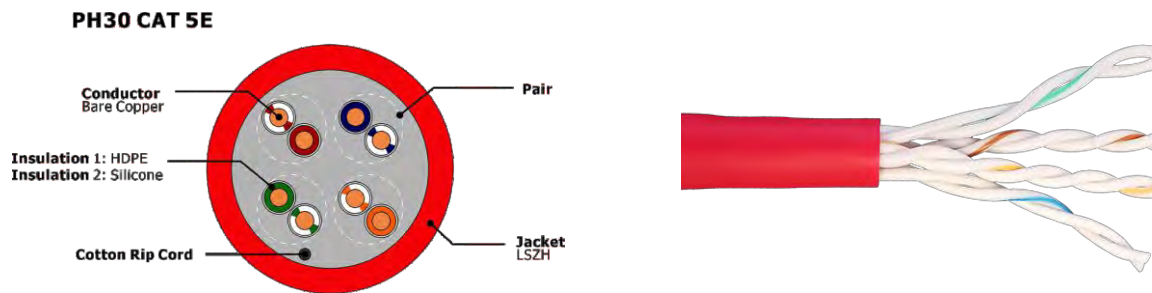
※Note: The above transmission performance for the 100M, 20±2℃ under the conditions tested.

Order Informations

Marking	HELLOSIGNAL F/UTP CAT5E 4PR 24AWG Double PVC-UV ...500M (or Per customer's request)
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Ph30 U/UTP CAT 5E -Global Market



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、POE Type1,2,3,4

Construction

Conductor:	0.54mm Solid Bare Copper
Pairs:	4 Pairs
Insulation 1:	0.95±0.05 mm HDPE
Insulation 2:	1.20±0.05 mm Silicone
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Rip Cord:	Cotton or Fibre
Out Jacket:	6.5±0.2 mm LSZH

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



Ph30 U/UTP CAT 5E -Global Market

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.2	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.2	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.4	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

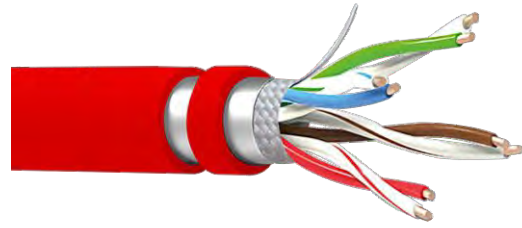
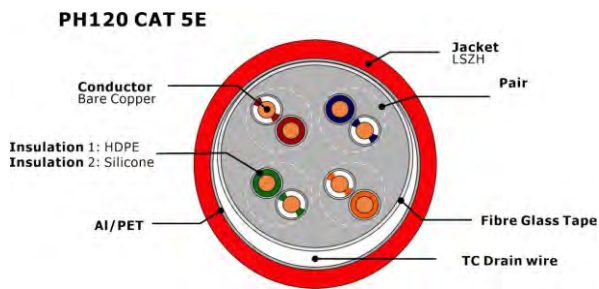
※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

Order Informations

Marking	HELLOSIGNAL PH30 U/UTP CAT5E 4PR LSZH ...500M
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Ph120 F/UTP CAT 5E -Global Market



COMPLIANCE (Reference Standard and Certificates)

- ISO/IEC 11801-1 Ed.1.0
- ANSI/TIA-568-C.2 、 ANSI/TIA-568.2-D
- UL444、UL1581、UL1666、IEC60332-1、EN50399

Application Support

- 1000BASE-T 、 100BASE-T 、 10BASE-T
- 1Volp、ISDN、Token、100MTPPDM、Analogand Datavideo、 POE Type1,2,3,4

Construction

Conductor:	0.54±0.005mm Solid Bare Copper
Pairs:	4 Pairs
Insulation 1:	1.07±0.05 mm HDPE
Insulation 2:	1.35±0.05 mm Silicone
Insulation Colors:	Blue-White/Blue,Orange-White/Orange Green-White/Green,Brown-White/Brown
Shielded 1	Fibre Glass Tape
Drain Wire	0.80±0.005mm TC
Overall Shield	Al/PET Foil,Foil face out
Out Jacket:	7.4±0.2 mm LSZH

Electrical Characteristics

DC Resistance	<9.38 Ohms/100m @20℃
DC Resistance unbalance	5% @ 20℃
Mutual Capacitance	5.6 nF/100m
Characteristic Impedance	1 - 100 MHz : 100±15 Ohms 100 - 350 MHz : 100±22 Ohms
Max Frequency	100MHz
Capacitance Unbalance	330 pF/100m
NVP(传输速率)	67%
Delay Skew	≤ 45ns/100m



Ph120 F/UTP CAT 5E -Global Market

Performance Characteristics

Frequency	RL (Min.)	Insertion Loss(Max.)	Propagation Delay (Max.)	Delay Skew(Max.)	NEXT (Min.)	PSNEXT (Min.)	ELNEXT (Min.)	PSELNEXT (Min.)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	20.0	2.2	570.0	45.0	65.0	62.0	61.0	61.0
4	23.0	4.2	552.0	45.0	56.0	53.0	48.0	48.0
10	25.0	6.5	545.0	45.0	50.0	47.0	41.0	41.0
16	25.0	8.4	543.0	45.0	47.0	44.0	36.0	36.0
20	25.0	9.3	542.0	45.0	45.0	42.0	34.0	34.0
31.25	23.6	11.6	540.0	45.0	42.0	39.0	31.0	31.0
62.5	21.5	17.0	539.0	45.0	38.0	35.0	25.0	25.0
100	20.1	22.0	538.0	45.0	35.0	32.0	21.0	21.0

※Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.

Order Informations

Marking	HELLOSIGNAL PH120 F/UTP CAT5E 4PR ...500M
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 GLOBAL MARKET

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