

POWERING UP OUR WORLD

LAN CABLES

Corporate Profile

Established since 1990, Keystone Cable is a leading Singapore-based manufacturer of power cables and wires for the regional markets. We specialise in the manufacture of low voltage power cables for construction and oil & gas industries.



Keystone HQ and Production

With our emphasis on stringent quality control processes, Keystone Cable has obtained all the necessary certificates from TÜV SÜD PSB, providing our customers with a guarantee of product excellence and reliability.

Keystone Cable is ISO 9001, ISO 14001 and OHSAS 18001 accredited for our quality, environmental and safety management systems, reflecting our long term philosophy of being in business with you and creating the right environment for our employees.

We have a perfect track record of honouring all our commitments and hence most of our customers have long-standing working relationships with us. Apart from the successful completion of numerous private sector projects both local and international, Keystone Cable has a solid track record of supplying low and medium voltage cables to notable government corporations such as Singapore Power and SingTel. We have also been accorded the highest grading (L6) by the Building and Construction Authority (BCA) of Singapore, which entitles us to bid for government tenders of unlimited value.

This catalogue represents our range of LAN cables designed and tested to local and international standards. For more information on our other product offering, please visit www.keystone-cable.com

CERTIFICATIONS



ISO 9001:2008



ISO 14001:2004



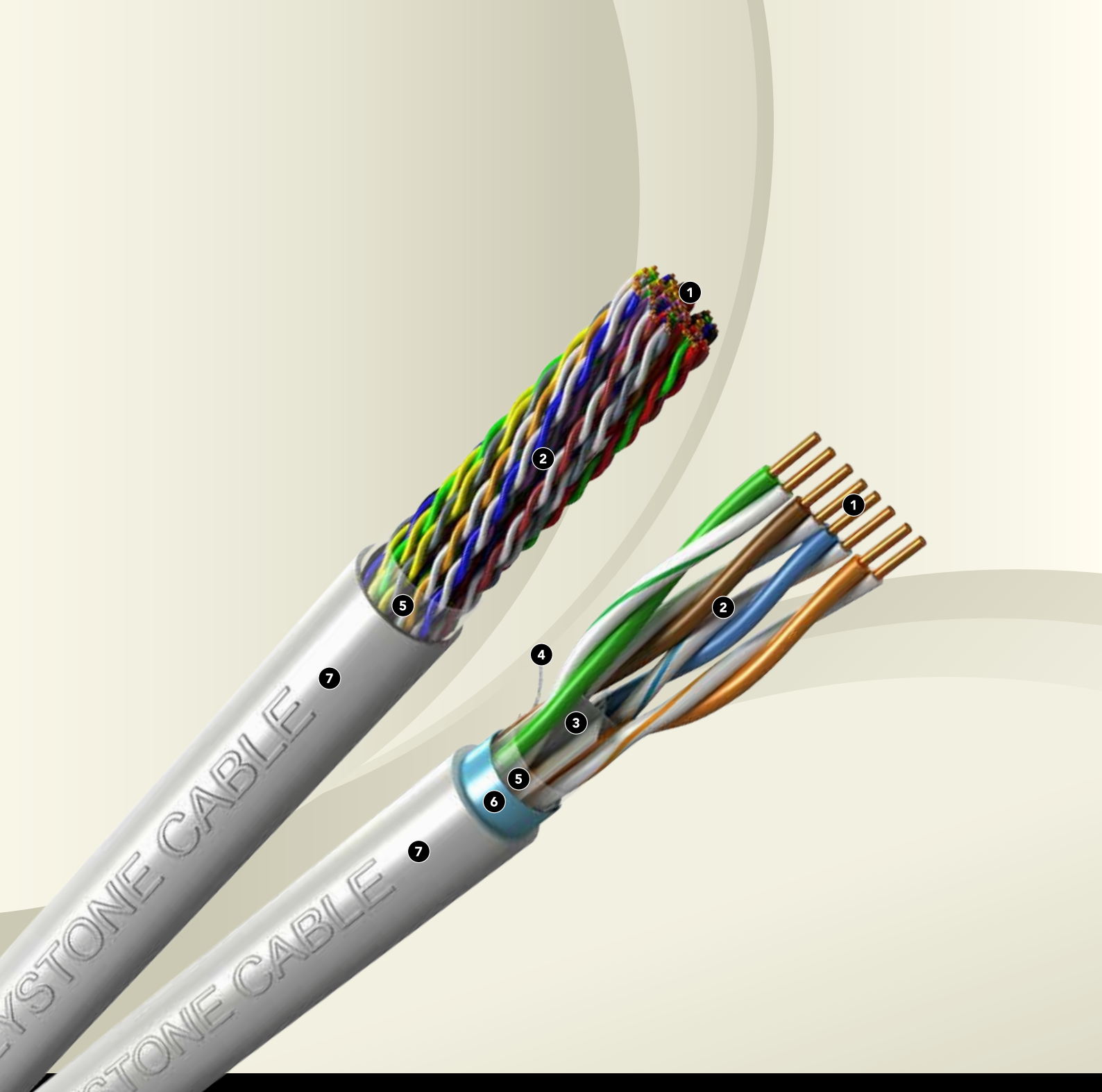
OHSAS 18001:2007

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KEYSTONE
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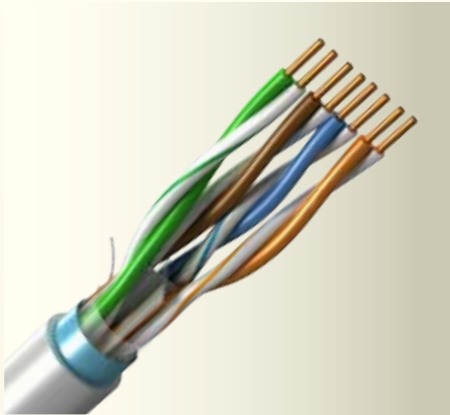


LAN Cables

1	Conductor	Solid Bare Copper
2	Insulation	HDPE
3	Cross-web filler	HDPE
4	Drain Wire	Tinned Copper Wire 0.5mm ²
5	Binder	P/S Tape
6	Screen	AL/Mylar Tape
7	Oversheath	PVC ROHS, LSZH, HDPE

Category 6A FTP 4 Pair

CU/HDPE/PS TAPE/AL TAPE/PVC or
 CU/HDPE/PS TAPE/AL TAPE/LSZH or
 CU/HDPE/PS TAPE/AL TAPE/HDPE



Application :	<ul style="list-style-type: none"> • High Speed Horizontal Cabling (500 MHz) • 10 / 100/ 1000 Base-T • 100 Mbps Fast Ethernet; 155 / 622 Mbps ATM; Gigabit Ethernet.
Construction :	Solid bare copper, HDPE insulated, drain wire, cross-web filler, P/S tape, AL/Mylar tape, PVC (ROHS), LSZH or HDPE outersheath.
Insulation colour :	<ul style="list-style-type: none"> • Blue & White/ Blue • Orange & White/ Orange • Green & White/ Green • Brown & White/Brown
Sheath colour :	Grey or Blue (PVC ROHS), Orange (LSZH), Black (HDPE) or as per order
Specifications :	ANSI / EIA / TIA - 568C.2; ISO / IEC 11801; UL 444
Flame Test :	UL 1581 (CMX); UL 1685 (CM); UL 1666 (CMR)
LSZH Test :	IEC 60754, IEC 61034

Conductor	Pair	Nominal Outer Diameter	Standard Length	Approx. Weight	Packaging
		(mm)	(m)	(kg/500m)	
Solid Bare Copper (23 AWG)	4	7.2	500	27.5	Plywood Drum

Electrical Properties @ 20°C

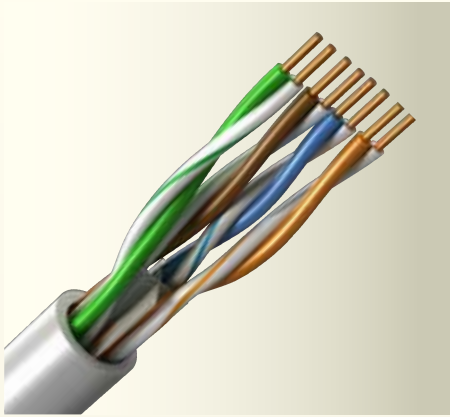
Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 5.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m
Characteristics Impedance	100 ± 15 Ω

Electrical Data @ 20°C

Frequency	ATTENUATION Max	NEXT Min	PSNEXT	ELFEXT Min	PSELFEXT Min	RL Min
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)
1	2.1	75.3	72.3	68.0	65.0	20.0
4	3.8	66.3	63.3	56.0	53.0	23.0
10	5.9	60.3	57.3	48.0	45.0	25.0
16	7.5	57.2	54.2	43.9	40.9	25.0
20	8.4	55.8	52.8	42.0	39.0	25.0
31.25	10.5	52.9	49.9	38.1	35.1	23.6
62.5	15.0	48.4	45.4	32.1	29.1	21.5
100	19.1	45.3	42.3	28.0	25.0	20.1
200	27.6	40.8	37.8	22.0	19.0	18.0
300	34.3	38.1	35.1	18.5	15.5	17.3
400	40.1	36.3	33.3	16.0	13.0	17.3
500	45.3	34.8	31.8	14.0	11.0	17.3

Category 6 UTP 4 Pair

CU/HDPE/PVC or
CU/HDPE/LSZH or
CU/HDPE/HDPE



Application :	<ul style="list-style-type: none"> • High Speed Horizontal Cabling (250 MHz) • 10 / 100 /1000 Base-T • 100 Mbps Fast Ethernet; 155 / 622 Mbps ATM; Gigabit Ethernet.
Construction :	Solid bare copper, HDPE insulated, cross-web filler, PVC (ROHS), LSZH or HDPE outersheath.
Insulation colour :	<ul style="list-style-type: none"> • Blue & White/ Blue • Orange & White/ Orange • Green & White/ Green • Brown & White/Brown
Sheath colour :	Grey or Blue (PVC ROHS), Orange (LSZH), Black (HDPE) or as per order
Specification :	ANSI / EIA / TIA - 568C.2; ISO / IEC 11801; UL 444
FlameTest :	UL 1581 (CMX); UL 1685 (CM); UL 1666 (CMR)
LSZH Test :	IEC 60754, IEC 61034

Conductor	Pair	Nominal Outer Diameter (mm)	Standard Length (m)	Approx. Weight (kg/305m)	Packaging
Solid Bare Copper (24 AWG)	4	6.2	305	12	Reel in Box
Solid Bare Copper (23 AWG)	4	6.3	305	12.2	Reel in Box

Electrical Properties @ 20°C

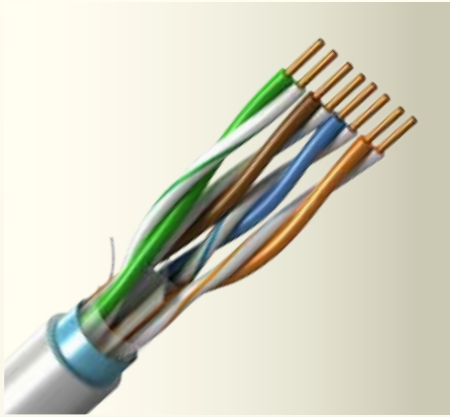
Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 5.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m
Characteristics Impedance	100 ± 15 Ω

Electrical Data @ 20°C

Frequency (MHz)	ATTENUATION Max (dB/100m)	NEXT Min (dB)	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	RL Min (dB)	DELAY Max (ns/100m)	SKEW Max (ns/100m)
0.772	1.8	76.0	74.0	70.0	67.0	-	-	-
1	2.0	74.3	72.3	67.8	64.8	20.0	570	45
4	3.8	65.3	63.3	55.8	52.8	23.0	-	-
8	5.3	60.8	58.8	49.7	46.7	24.5	-	-
10	6.0	59.3	57.3	47.8	44.8	25.0	545	45
16	7.6	56.2	54.2	43.7	40.7	25.0	-	-
20	8.5	54.8	52.8	41.8	38.8	25.0	-	-
25	9.5	53.3	51.3	39.8	36.8	24.3	-	-
31.25	10.7	51.9	49.9	37.9	34.9	23.6	-	-
62.5	15.4	47.4	45.4	31.9	28.9	21.5	-	-
100	19.8	44.3	42.3	27.8	24.8	20.1	-	-
200	29.0	39.8	37.8	21.8	18.8	18.0	-	-
250	32.8	38.3	36.3	19.8	16.8	17.3	536	45

Category 6 FTP 4 Pair

CU/HDPE/PS TAPE/AL TAPE/PVC or
 CU/HDPE/PS TAPE/AL TAPE/LSZH or
 CU/HDPE/PS TAPE/AL TAPE/HDPE



Application :	<ul style="list-style-type: none"> • High Speed Horizontal Cabling (250 MHz) • 10 / 100 /1000 Base-T • 100 Mbps Fast Ethernet; 155 / 622 Mbps ATM; Gigabit Ethernet • EMI Proof.
Construction :	Solid bare copper, HDPE insulated, drain wire, cross-web filler, P/S tape, AL/Mylar tape, PVC (ROHS), LSZH or HDPE outersheath.
Insulation colour :	<ul style="list-style-type: none"> • Blue & White/ Blue • Orange & White/ Orange • Green & White/ Green • Brown & White/Brown
Sheath colour :	Grey or Blue (PVC ROHS), Orange (LSZH), Black (HDPE) or as per order
Specifications :	ANSI / EIA / TIA - 568C.2; ISO / IEC 11801; UL 444
Flame Test :	UL 1581 (CMX); UL 1685 (CM); UL 1666 (CMR)
LSZH Test :	IEC 60754, IEC 61034

Conductor	Pair	Nominal Outer Diameter	Standard Length	Approx. Weight	Packaging
		(mm)	(m)	(kg/305m)	
Solid Bare Copper (24 AWG)	4	7.5	305	16	Reel in Box

Electrical Properties @ 20°C

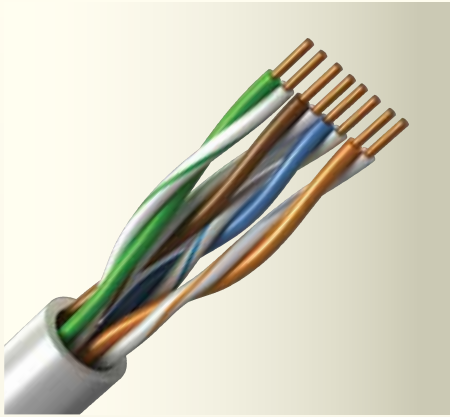
Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 5.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m
Characteristics Impedance	100 ± 15 Ω

Electrical Data @ 20°C

Frequency	ATTENUATION Max	NEXT Min	PSNEXT Min	ELFEXT Min	PSELFEXT Min	RL Min	DELAY Max	SKEW Max
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)	(ns/100m)	(ns/100m)
0.772	1.8	76.0	74.0	70.0	67.0	-	-	-
1	2.0	74.3	72.3	67.8	64.8	20.0	570	45
4	3.8	65.3	63.3	55.8	52.8	23.0	-	-
8	5.3	60.8	58.8	49.7	46.7	24.5	-	-
10	6.0	59.3	57.3	47.8	44.8	25.0	545	45
16	7.6	56.2	54.2	43.7	40.7	25.0	-	-
20	8.5	54.8	52.8	41.8	38.8	25.0	-	-
25	9.5	53.3	51.3	39.8	36.8	24.3	-	-
31.25	10.7	51.9	49.9	37.9	34.9	23.6	-	-
62.5	15.4	47.4	45.4	31.9	28.9	21.5	-	-
100	19.8	44.3	42.3	27.8	24.8	20.1	-	-
200	29.0	39.8	37.8	21.8	18.8	18.0	-	-
250	32.8	38.3	36.3	19.8	16.8	17.3	536	45

Category 5e UTP 4 Pair

CU/HDPE/PVC or
CU/HDPE/LSZH or
CU/HDPE/HDPE



Application :	<ul style="list-style-type: none"> • High Speed Horizontal Cabling (100 MHz) • 10 / 100 Base-T • 100 Mbps Fast Ethernet; 155 Mbps ATM.
Construction :	Solid bare copper, HDPE insulated, PVC (ROHS), LSZH or HDPE outersheath.
Insulation colour :	<ul style="list-style-type: none"> • Blue & White/ Blue • Orange & White/ Orange • Green & White/ Green • Brown & White/Brown
Sheath colour :	Grey or Blue (PVC ROHS), Orange (LSZH), Black (HDPE) or as per order
Specification :	ANSI / EIA / TIA - 568C.2; ISO / IEC 11801; UL 444
Flame Test :	UL 1581 (CMX); UL 1685 (CM); UL 1666 (CMR)
LSZH Test :	IEC 60754, IEC 61034

Conductor	Pair	Nominal Outer Diameter	Standard Length	Approx. Weight	Packaging
		(mm)	(m)	(kg/305m)	
Solid Bare Copper (24 AWG)	4	5.1	305	9	Reelex Box

Electrical Properties @ 20°C

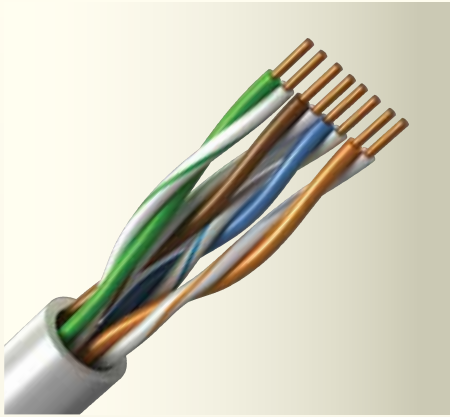
Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 5.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m
Characteristics Impedance	100 ± 15 Ω

Electrical Data @ 20°C

Frequency	ATTENUATION Max	NEXT Min	PSNEXT Min	ELFEXT Min	PSELFEXT Min	RL Min	DELAY Max	SKEW Max
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)	(ns/100m)	(ns/100m)
0.772	1.8	67.0	64.0	66.0	63.0	-	-	-
1	2.0	65.3	62.3	63.8	60.8	20.0	570	45
4	4.1	56.3	53.3	51.7	48.7	23.0	-	-
8	5.8	51.8	48.8	45.7	42.7	24.5	-	-
10	6.5	50.3	47.3	43.8	40.8	25.0	545	45
16	8.2	47.3	44.3	39.7	36.7	25.0	-	-
20	9.3	45.8	42.8	37.7	34.7	25.0	-	-
25	10.4	44.3	41.3	35.8	32.8	24.3	-	-
31.25	11.7	42.9	39.9	33.9	30.9	23.6	-	-
62.5	17.0	38.4	35.4	27.8	24.8	21.5	-	-
100	22.0	35.3	32.3	23.8	20.8	20.3	538	45

Enhanced Category 5e UTP 4 Pair

CU/HDPE/PVC or
CU/HDPE/LSZH or
CU/HDPE/HDPE



Application :	<ul style="list-style-type: none"> • High Speed Horizontal Cabling (350 MHz) • 10 / 100 Base-T • 100 Mbps Fast Ethernet; 155 Mbps ATM.
Construction :	Solid bare copper, HDPE insulated, PVC (ROHS), LSZH or HDPE outersheath.
Insulation colour :	<ul style="list-style-type: none"> • Blue & White/ Blue • Orange & White/ Orange • Green & White/ Green • Brown & White/Brown
Sheath colour :	Grey or Blue (PVC ROHS), Orange (LSZH), Black (HDPE) or as per order
Specifications :	ANSI / EIA / TIA - 568C.2; ISO / IEC 11801; UL 444
Flame Test :	UL 1581 (CMX); UL 1685 (CM); UL 1666 (CMR)
LSZH Test :	IEC 60754, IEC 61034

Conductor	Pair	Nominal Outer Diameter	Standard Length	Approx. Weight	Packaging
		(mm)	(m)	(kg/305m)	
Solid Bare Copper (24 AWG)	4	5.1	305	9	Reel in Box

Electrical Properties @ 20°C

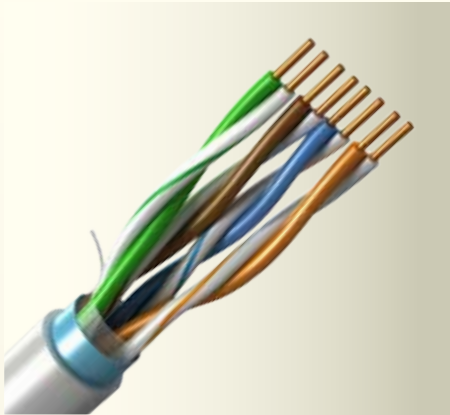
Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 5.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m
Characteristics Impedance	100 ± 15 Ω

Electrical Data @ 20°C

Frequency	ATTENUATION Max	NEXT Min	PSNEXT Min	ELFEXT Min	PSELFEXT Min	RL Min	DELAY Max	SKEW Max
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)	(ns/100m)	(ns/100m)
0.772	1.8	70.0	67.0	68.2	65.2	-	-	-
1	2.0	68.3	65.3	66.0	63.0	22.0	570	45
4	2.1	59.3	56.3	54.0	51.0	25.0	-	-
8	5.8	54.8	51.8	47.9	44.9	26.5	-	-
10	6.5	53.3	50.3	46.0	43.0	27.0	545	45
16	8.2	50.3	47.3	41.9	38.9	27.0	-	-
20	9.3	48.8	45.8	40.0	37.0	27.0	-	-
25	10.4	47.3	44.3	38.0	35.0	26.3	-	-
31.25	11.7	45.9	42.9	36.1	33.1	25.6	-	-
62.5	17.0	41.4	38.4	30.1	27.1	23.5	-	-
100	22.0	38.3	35.3	26.0	23.0	22.1	-	-
200	32.4	33.8	30.8	20.0	17.0	20.0	-	-
250	36.8	32.3	29.3	18.0	15.0	19.3	-	-
300	40.9	31.1	28.1	16.5	13.5	18.7	-	-
350	44.8	30.1	27.1	15.1	12.1	18.3	536	45

Category 5e FTP 4 Pair

CU/HDPE/PS TAPE/AL TAPE/PVC or
 CU/HDPE/PS TAPE/AL TAPE/LSZH or
 CU/HDPE/PS TAPE/AL TAPE/HDPE



Application :	<ul style="list-style-type: none"> • High Speed Horizontal Cabling (100 MHz) • 10 / 100 Base-T • 100 Mbps Fast Ethernet; 155 Mbps ATM • EMI Proof.
Construction :	Solid bare copper, HDPE insulated, drain wire, P/S tape, AL/Mylar tape, PVC (ROHS), LSZH or HDPE outersheath.
Insulation colour :	<ul style="list-style-type: none"> • Blue & White/ Blue • Orange & White/ Orange • Green & White/ Green • Brown & White/Brown
Sheath colour :	Grey or Blue (PVC ROHS), Orange (LSZH), Black (HDPE) or as per order
Specification :	ANSI / EIA / TIA - 568C.2; ISO / IEC 11801; UL 444
Flame Test :	UL 1581 (CMX); UL 1685 (CM); UL 1666 (CMR)
LSZH Test :	IEC 60754, IEC 61034

Conductor	Pair	Nominal Outer Diameter	Standard Length	Approx. Weight	Packaging
		(mm)	(m)	(kg/305m)	
Solid Bare Copper (24 AWG)	4	6.4	305	13	Reel in Box

Electrical Properties @ 20°C

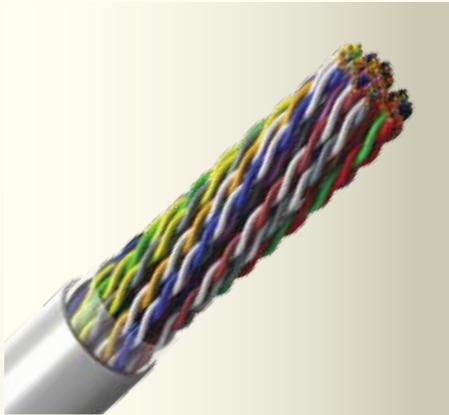
Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 5.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m
Characteristics Impedance	100 ± 15 Ω

Electrical Data @ 20°C

Frequency	ATTENUATION Max	NEXT Min	PSNEXT Min	ELFEXT Min	PSELFEXT Min	RL Min	DELAY Max	SKEW Max
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)	(ns/100m)	(ns/100m)
0.772	1.8	67.0	64.0	66.0	63.0	-	-	-
1	2.0	65.3	62.3	63.8	60.8	20.0	570	45
4	4.1	56.3	53.3	51.7	48.7	23.0	-	-
8	5.8	51.8	48.8	45.7	42.7	24.5	-	-
10	6.5	50.3	47.3	43.8	40.8	25.0	545	45
16	8.2	47.3	44.3	39.7	36.7	25.0	-	-
20	9.3	45.8	42.8	37.7	34.7	25.0	-	-
25	10.4	44.3	41.3	35.8	32.8	24.3	-	-
31.25	11.7	42.9	39.9	33.9	30.9	23.6	-	-
62.5	17.0	38.4	35.4	27.8	24.8	21.5	-	-
100	22.0	35.3	32.3	23.8	20.8	20.1	538	45

Category 5e UTP Multi-Pair

CU/HDPE/PS TAPE/PVC or
CU/HDPE/PS TAPE/LSZH or
CU/HDPE/PS TAPE/HDPE



Application :	<ul style="list-style-type: none"> • High Speed Horizontal Cabling (100 MHz) • 10 / 100 Base-T • 100 Mbps Fast Ethernet; 155 Mbps ATM.
Construction :	Solid bare copper, HDPE insulated, P/S Tape, PVC (ROHS), LSZH or HPDE outersheath.
Insulation colour :	According to standard
Sheath colour :	Grey or Blue (PVC ROHS), Orange (LSZH), Black (HDPE) or as per order
Specifications :	ANSI / EIA / TIA - 568C.2; ISO / IEC 11801; UL 444
Flame Test :	UL 1581 Sec. 1080 (CMX); UL 1685 (CM); UL 1666 (CMR)
LSZH Test :	IEC 60754, IEC 61034

Conductor	Pair	Nominal Outer Diameter	Standard Length	Approx. Weight	Packaging
		(mm)	(m)	(kg/305m)	
Solid Bare Copper (24 AWG)	25	12.5	1000	170	Wooden Reel

Electrical Properties @ 20°C

Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 5.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m
Characteristics Impedance	100 ± 15 Ω

Electrical Data @ 20°C

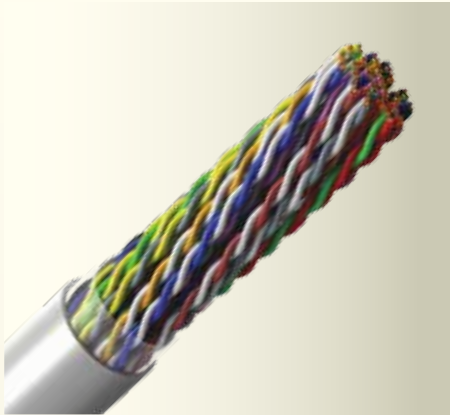
Frequency	ATTENUATION Max	NEXT Min	ACR Min	PSACR Min	ELFEXT Min	PSELFEXT Min	RL Min	DELAY Max	SKEW Max
(MHz)	(dB/100m)	(dB)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)	(ns/100m)	(ns/100m)
1	3.0	60.0	57.0	54.0	57.4	54.4	17.0	555	50
4	4.5	53.5	49.1	46.1	45.4	42.4	17.0		
8	6.3	48.6	42.3	39.3	39.3	36.3	17.0		
10	7.1	47.0	39.9	36.9	37.4	34.4	17.0		
16	9.1	43.6	34.5	31.5	33.3	30.3	17.0		
20	10.2	42.0	31.8	28.8	31.4	28.4	17.0		
25	11.4	40.3	28.9	25.9	29.4	26.4	16.0		
31.25	12.9	38.7	25.9	22.9	27.5	24.5	15.1		
62.5	18.6	33.6	15.0	12.0	21.5	18.5	12.0		
100	24.0	30.1	6.1	3.1	17.4	14.4	10.0		

Category 3 UTP Multi-Pair

CU/HDPE/PS TAPE/PVC



tel (65) 6367 0107 fax (65) 6365 2963
www.keystone-cable.com



Application :	<ul style="list-style-type: none"> • Horizontal Distribution & Backbone Cabling (16MHz) • 10 Base-T • 4 Mbps Token Ring • Voice (Telephone / Fax).
Construction :	Solid bare or tinned copper, HDPE - Insulated, P/S Tape, PVC (ROHS) outersheath.
Insulation colour :	According to standard
Sheath colour :	Grey or as per order
Specification :	ANSI / EIA / TIA - 568C. 2; ISO / IEC 11801; UL 444
FlameTest :	UL 1581 (CMX); UL 1685 (CM); UL 1666 (CMR)

Conductor	Pair	Nominal Outer Diameter (mm)	Standard Length (m)	Approx. Weight (kg/305m)	Packaging
Solid Bare Copper (24AWG)	25	9.5	300	40	Reel
	50	13.0		80	
	75	15.5		115	
	100	17.5		150	
	125	19.5		180	
	150	21.0		215	
	200	23.5		280	
	300	28.5		410	
	400	32.5		535	
	500	36.5		670	
	600	39.5	795		

Electrical Properties @ 20°C

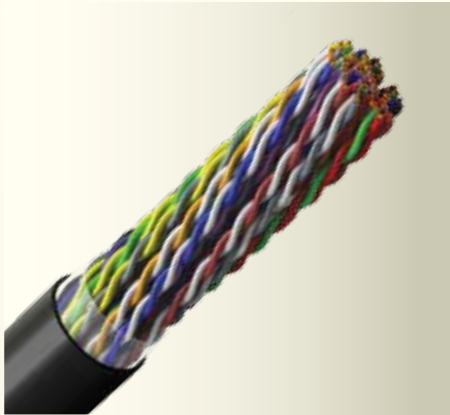
Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 6.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m

Electrical Data @ 20°C

Frequency (MHz)	Characteristic Impedance (Z ₀) (ohms)	SRL Min (dB)	ATTENUATION Max (dB/100m)	NEXT Min (dB)	DELAY Max (ns/100m)	SKEW Max (ns/100m)
0.772	-	-	2.2	43.0	-	-
1	100 ± 15	12.0	2.6	41.0	570	45
4	100 ± 15	12.0	5.6	32.0	-	-
8	100 ± 15	12.0	8.5	27.0	-	-
10	100 ± 15	12.0	9.7	26.0	545	45
16	100 ± 15	12.0	13.1	23.0	545	45

Outdoor Category 3 UTP Multi-Pair

CU/HDPE/PS TAPE/HDPE



Application :	<ul style="list-style-type: none"> • Outdoor Use (16 MHz) • 10 / 100 Base-T • 4 Mbps Token Ring.
Construction :	Solid bare copper, HDPE-Insulated, P/S Tape, HDPE outersheath.
Insulation colour :	According to standard
Sheath colour :	Black or as per order
Specification :	ANSI / EIA / TIA - 568C. 2; ISO / IEC 11801; UL 444
FlameTest :	UL 1581 (CMX); UL 1685 (CM); UL 1666 (CMR)

Conductor	Pair	Nominal Outer Diameter (mm)	Standard Length (m)	Approx. Weight (kg/305m)	Packaging
Solid Bare Copper (24AWG)	25	9.5	300	38	Reel
	50	13.0		75	
	75	15.5		110	
	100	17.5		140	
	125	19.5		170	
	150	21.0		205	
	200	23.5		265	
	300	28.5		390	

Electrical Properties @ 20°C

Conductor Resistance	≤ 9.38 Ω / 100m
Resistance Unbalance	≤ 5%
Mutual Capacitance	≤ 6.6nF / 100m
Capacitance Unbalance	≤ 330pF / 100m

Electrical Data @ 20°C

Frequency (MHz)	Characteristic Impedance (Z ₀) (ohms)	SRL Min (dB)	ATTENUATION Max (dB/100m)	NEXT Min (dB)
0.772	-	-	2.2	43.0
1	100 ± 15	12.0	2.6	41.0
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8	100 ± 15	12.0	8.5	27.0
10	100 ± 15	12.0	9.7	26.0
16	100 ± 15	10.0	13.1	23.0

ATTENUATION (IL)

Attenuation, or Insertion loss, refers to the loss of signal strength at the far end of a line compared to the signal that was introduced into the line.

DELAY

Delay of a network specifies how long it takes for a bit of data to travel across the network from one node or endpoint to another.

ELFEXT (The Equal-Level Far-End Crosstalk)

The Equal-Level Far-End Crosstalk (ELFEXT) test measures Far-End Crosstalk (FEXT). FEXT is very similar to NEXT, but happens at the receiver side of the connection.

FTP (Foiled Twisted Pair)

Foiled twisted pair is a cable containing multiple pairs of copper wire enclosed in a sheath of aluminum foil. It's used in wiring systems in buildings or other environments where heavy noise adjacent to the wire might cause interference.

HDPE

High Density Polyethylene

LSZH (Low Smoke Zero Halogen)

LSZH is composed of thermoplastic or thermoset compounds that emit limited smoke and no halogen when exposed to high sources of heat

NEXT (Near-End Crosstalk)

Near-End Crosstalk (NEXT) is an error condition that describes the occurrence of a signal from one wire pair radiating to and interfering with the signal of another wire pair.

It is the difference in amplitude (in dB) between a transmitted signal and the crosstalk received on other cable pairs at the same end of the cabling.

PSELFEXT (Power Sum ELFEXT)

Power Sum ELFEXT (PSELFEXT) is the sum of FEXT values from 3 wire pairs as they affect the other wire pair, minus the insertion loss of the channel.

PSNEXT (Power Sum NEXT)

Power Sum NEXT (PSNEXT) is the sum of NEXT values from 3 wire pairs as they affect the other wire pair.

RL (Return Loss)

Return Loss is the measurement of signal reflections from a cable or device with a fixed standard reference impedance on the measuring equipment.

SKEW

Skew is the difference in reading times between bits recorded on the tracks at the extremities, or edges, of the tape.

SRL (Structural Return Loss)

Similar to Return Loss, but Structural Return Loss is the magnitude of internal cable reflections relative to actual cable impedance.

UTP (Unshielded Twisted Pair)

Unshielded twisted pair is the most common kind of copper telephone wiring. Two insulated copper wires are twisting around each other to reduce crosstalk or electromagnetic induction between them.

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