



# CAT 5E U/UTP CABLE PVC

## Category 5e Unshielded Twisted Pair U/UTP Installation cable

### DESCRIPTION

Category 5 cables are capable of operating up to 100MHz. Produced according to ISO/IEC 11801 requirements, the U/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 5 U/UTP cables are applicable for basic voice and data installations up to 100 MHz.

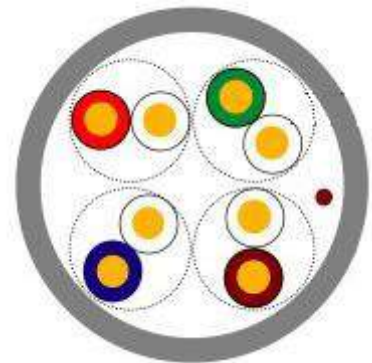
Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568B, EN-50173

### APPLICATION

Cable for data transmission in structured cabling networks (LAN), horizontal and secondary facilities.

### TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.50±0.01 mm
Insulation	HDPE	0.90±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Ripcord	Yes	
Sheath	PVC	
Color	Gray (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15°C—+70°C	



### ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)		Velocity of Propagation (%)	Impedance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.51	Max.91.5	Max.4%	5.6		69	100±15	5.0±0.2
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
4	23.0	4.1	56.3	552.0	53.3	52.0	49.0
8	24.5	5.8	51.8	547.0	48.8	45.9	42.9
10	25.0	6.5	50.3	545.0	47.3	44.0	41.0
16	25.0	8.2	47.2	543.0	44.2	39.9	36.9
20	25.0	9.3	45.8	542.0	42.8	38.0	35.0
25	24.3	10.4	44.3	541.0	41.3	36.0	33.0
31.25	23.6	11.7	42.9	540.0	39.9	34.1	31.1
62.5	21.5	17.0	38.4	539.0	35.4	28.1	25.1
100	20.1	22.0	35.3	538.0	32.3	24.0	21.0



# CAT 5E U/UTP CABLE LSZH

Category 5e Unshielded Twisted Pair U/UTP Installation cable.

## DESCRIPTION

U/UTP Category 5 cables are capable of operating up to 100MHz. Produced according to ISO/IEC 11801 requirements, the U/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 5 U/UTP cables are applicable for basic voice and data installations up to 100 MHz.

Manufactured according to ISO / IEC 11801, EIA / TIA-568-C.2, EN-50173.

## TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.50±0.01 mm
Insulation	HDPE	0.90±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Ripcord	Yes	
Sheath	LSZH	
Color	Red (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15°C—+70°C	



## ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)		Velocity of Propagation (%)	Impedance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.50	Max.95	Max.4%	5.6		69	100±15	5.0±0.3
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
4	23.0	4.1	56.3	552.0	53.3	52.0	49.0
8	24.5	5.8	51.8	547.0	48.8	45.9	42.9
10	25.0	6.5	50.3	545.0	47.3	44.0	41.0
16	25.0	8.2	47.2	543.0	44.2	39.9	36.9
20	25.0	9.3	45.8	542.0	42.8	38.0	35.0
25	24.3	10.4	44.3	541.0	41.3	36.0	33.0
31.25	23.6	11.7	42.9	540.0	39.9	34.1	31.1
62.5	21.5	17.0	38.4	539.0	35.4	28.1	25.1
100	20.1	22.0	35.3	538.0	32.3	24.0	21.0



# CAT 5E F/UTP CABLE PVC

Category 5e shielded Twisted Pair F/UTP Installation cable.

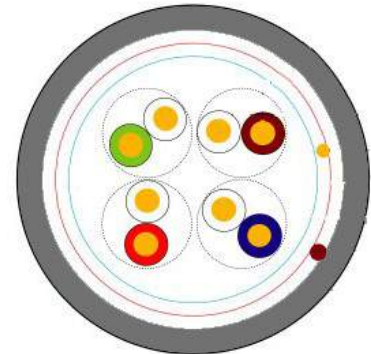
## DESCRIPTION

F/UTP Category 5 cables are capable of operating up to 100MHz. Produced according to ISO/IEC 11801 requirements, the F/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 5 F/UTP cables are applicable for basic voice and data installations up to 100 MHz.

Manufactured according to ISO / IEC 11801, EIA / TIA-568-C.2, EN-50173.

## TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.50±0.01 mm
Insulation	HDPE	0.90±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Shield	PET FOIL + AL Foil	
Ripcord	Yes	
Sheath	PVC	
Color	Gray (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15°C—+70°C	



## ELECTRICAL CHARACTERISTICS

No. of Pairs.xØ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impedance (Ω)	ΦExt. (Appvox) (mm)	
4x2x0.51	Max.91.5	Max.2%	5.6	67	100±15	5.0±0.2	
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.8	48.8
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.8	34.8
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.9	24.9
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8



# CAT6 F/UTP CABLE LSZH

Category 6 shielded Twisted Pair F/UTP Installation cable.

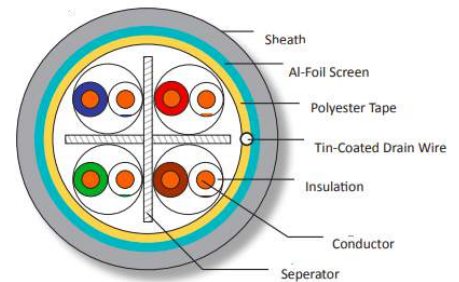
## DESCRIPTION

F/UTP Category 6 cables are capable of operating up to 250MHz. Produced according to ISO/IEC 11801 requirements, the F/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 6 F/UTP cables are applicable for basic voice and data installations up to 250 MHz.

Manufactured according to ISO / IEC 11801, EIA / TIA-568-C.2, EN-50173

## TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.56±0.01 mm
Insulation	HDPE	1.09±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Screen Material	Polyester Tape / Aluminum Foil / TC drain	
Filler	Yes	
Ripcord	Yes	
Sheath	PVC	
Color	Gray (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15°C—+70°C	



## ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impedance (Ω)	ΦExt. (Appvox) (mm)	
4x2x0.51	Max.91.5	Max.2%	5.6	67	100±15	6.20±0.2	
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.0	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8



# CAT6 U/UTP CABLE PVC

Category 6 Unshielded Twisted Pair U/UTP Installation cable.

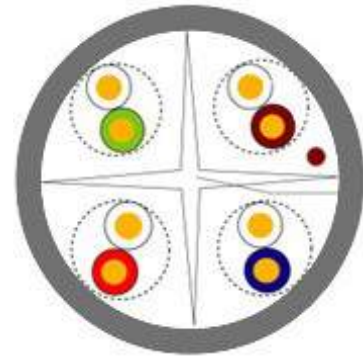
## DESCRIPTION

U/UTP Category 6 cables are capable of operating up to 250MHz. Produced according to ISO/IEC 11801 requirements, the U/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 6 U/UTP cables are applicable for basic voice and data installations up to 250 MHz.

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568B, EN 50173.

## TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.56±0.01 mm
Insulation	HDPE	0.97±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Filler	Yes	
Ripcord	Yes	
Sheath	PVC	
Color	Gray (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15°C—+70°C	



## ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impedance (Ω)	ΦExt. (Appvox) (mm)	
4x2x0.56	Max.75	Max.5%	56	69	100±15	6.10±0.3	
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.0	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.9



# CAT6 U/UTP CABLE LSZH

Category 6 Unshielded Twisted Pair U/UTP Installation cable.

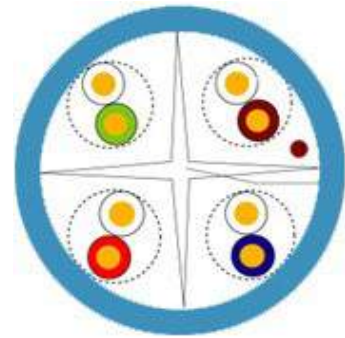
## DESCRIPTION

U/UTP Category 6 cables are capable of operating up to 250MHz. Produced according to ISO/IEC 11801 requirements, the U/UTP cable is the best option to support all Class E applications such as Ethernet, Fast Ethernet, Gigabit Ethernet. The Cat 6 U/UTP cables are applicable for basic voice and data installations up to 250 MHz.

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568B, EN 50173.

## TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.56±0.01 mm
Insulation	HDPE	0.97±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Filler	Yes	
Ripcord	Yes	
Sheath	LSZH	
Color	Blue (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15°C—+70°C	



## ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impedance (Ω)	ΦExt. (Appvox) (mm)	
4x2x0.56	Max.75	Max.5%	56	69	100±15	6.10±0.3	
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.0	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.9



# CAT6A U/UTP CABLE LSZH



Category 6A Unshielded Twisted Pair U/UTP Installation cable.

## DESCRIPTION

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568-C.2, EN 50173.

## TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.56±0.01 mm
Insulation	HDPE	1.03±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Filler	Yes	
Ripcord	Yes	
Sheath	LSZH	
Color	Blue (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15°C—+70°C	



## ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)	Velocity of Propagation (%)	Impedance (Ω)	ΦExt. (Appvox) (mm)	
4x2x0.56	Max.75	Max.5%	56	69	100±15	7.50±0.3	
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.1	74.3	570.00	72.3	67.8	64.8
4	23.0	3.8	65.3	552.0	63.3	55.8	52.8
8	24.5	5.3	60.8	546.7	58.8	49.7	46.7
10	25.0	5.9	59.3	545.4	57.3	47.8	44.8
16	25.0	7.5	56.2	543.00	54.2	43.7	40.7
20	25.0	8.4	54.8	542.1	52.8	41.8	38.8
25	24.3	9.4	53.3	541.2	41.3	39.8	36.8
31.25	23.6	10.5	51.9	540.4	49.9	37.9	34.9
62.5	21.5	15.0	47.4	538.6	45.4	31.9	28.9
100	20.1	19.1	44.3	537.6	42.3	27.8	24.8
200	18.0	27.6	39.8	536.5	37.8	21.8	18.8
250	17.3	31.1	38.3	536.3	36.3	19.8	16.8
300	16.8	34.3	37.1	536.1	35.1	18.3	15.3
500	15.2	45.3	33.8	535.6	31.9	13.8	10.8



# CAT7 S/FTP CABLE LSZH



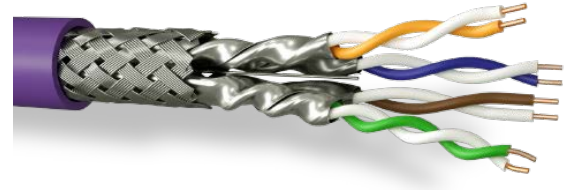
Category 7 shielded Twisted Pair S/FTP Installation cable.

## DESCRIPTION

Manufactured according to ISO / IEC 11801-2, ISO / IEC 64156-5, EIA / TIA 568-C.2, EN 50173.

## TECHNICAL SPECIFICATIONS

Conductor	Bare copper	0.58±0.01 mm
Insulation	HDPE	1.35±0.05 mm
Identification of pairs		
1 pair	Blue - White / Blue	
2 pair	Orange - White / Orange	
3 pair	Green - White / Green	
4 pair	Brown - White / Brown	
Inner screening	Aluminum foil	
Outer screening	Tinned copper braid ≥40%	
Ripcord	Yes	
Sheath	LSOH	
Color	Blue (other option is available)	
Bending radius	≥ 8 x Diameter (mm) Installation	
Storage temperature	-15°C—+70°C	



## ELECTRICAL CHARACTERISTICS

No. of Pairs.xΦ (mm)	Conductor Resistance (Ω/km)	Resistance Unbalance	Cap. Between cond. Pair (nF / 100m)		Velocity of Propagation (%)	Impedance (Ω)	ΦExt. (Appvox) (mm)
4x2x0.58	Max.71	Max.147	40		74	100±15	7.50±0.3
Frequency (MHz)	RL ≥dB	ATT ≤dB/100m	NEXT ≥dB	DELAY ≤ns/100m	PS NEXT ≥dB	EL FEXT ≥dB/100m	PS EL FEXT ≥dB/100m
1	20.0	2.0	78.0	570.0	75.0	78.0	75.0
4	23.0	3.74	78.0	552.0	75.0	78.0	75.0
8	24.5	5.24	78.0	546.7	75.0	75.9	72.9
10	25.0	5.86	78.0	545.4	75.0	74.0	71.0
16	25.0	7.41	78.0	543.00	75.0	69.9	66.9
20	25.0	8.29	78.0	542.0	75.0	68.0	65.0
25	24.3	9.29	78.0	541.2	75.0	66.0	63.0
31.25	23.6	10.41	78.0	540.4	75.0	64.1	61.1
62.5	21.5	14.88	75.5	538.6	72.5	58.1	55.1
100	20.1	19.02	72.4	537.6	69.4	54.0	51.0
150	18.9	23.56	69.8	536.9	66.8	50.2	47.2
200	18.0	27.47	67.9	536.5	64.9	48.0	45.0
250	17.3	30.97	66.4	536.3	63.4	46.0	43.0
300	17.3	34.19	65.2	536.1	62.2	44.5	41.5
600	17.3	50.10	60.7	535.5	57.7	38.4	35.4