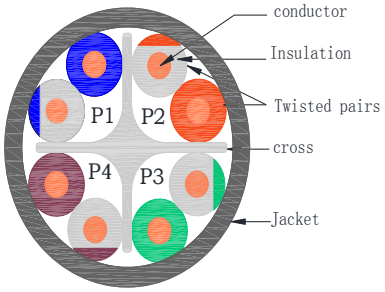
U/UTP Category 6 Stranded Cable Data Sheet

PN:06-8418

Cross Section



Marking

Jacket Marking: /

DIREKTRONIK CATEGORY 6 PATCH CABLE U/UTP 24AWG 4 PAIRS LSZH VERIFIED TO EIA/TIA 568B 001M…….305M

Construcetion

Conductor	Bare Copper
4 Twisted Pair	8C
AWG	24
Construction (±0.01MM)	7/0.2
Standard Dia.(MM)	0.192
Insulation	HD-PE
Nom.Thickness (±0.02MM)	0.18
Insulation Dia.(±0.05MM)	0.97
Sepaiaior	PE Cross
Shield/Braid	/
Overlap(%)	/
Darin wire	/
Jacket	LSZH
Nom.Thickness (±0.05MM)	0.55
Outer Dia.(±0.2MM)	6.0+/-0.15

Color

Insulation

Cores:Pairs

P1:Blue & White P2:Orange & White

P3:Green & White P4:Brown & White

Jacket: Grey

benging test

MAX.pulling

Perfomance

ELECTRICAL CHARACTERISTICS(20℃)

MAX.CONDUCTOR DC RESISTANCE (/KM) #24:89

MIN.INSULATION RESISTANCE (/KM) PE:100M

DIELECTRIC STRENGTH AC-500V/1 MIN NO BREAKDOWN

D-C RESISTANCE UNBALANCE:MAX 2%

PAIR-TO-GROUND CAPACITANCE UNBALANCE:MAX. 330PF/100M

INPUT IMPEDANCE: 4-100MHz 100+/-15ohm

100-250MHz 100+/-22ohm

MEAN CHARATRERISTIC IMPEDANCE@100MHZ: 100+/-5 OHMS

NOMINALE VELOCITY OF PROPAGETION(NVP) 68+/-2%

PROPAGATION DELAY @ 100MHZ ≧537.6 ns/100M

PROPAGATION DELAY SKEW:MAX. ≧45ns/100M

PREQUENCY RANGE MINIMUN REQUIREMENTS(EQUATIONS)

INSERTION LOSS 4-250MHZ IEC60332-1:EQUATION(2).CONSTANT VALUES SEE TABLE 4 CAT.6

RETURN LOSS 4-250MHZ IEC60332-1:SEE TABLE 10

INPUT IMPEDANCE 4-250MHZ IEC60332-1:SEE TABLE 10

NEXT 4-250MHZ IEC60332-1:EQUATION(6),CONSTANT VALUES SEE TABLE 6 CAT.6

PS NEXT 4-250MHZ IEC60332-1:EQUATION(5),CONSTANT VALUES SEE TABLE 6 CAT.6

ELFEXT 4-250MHZ IEC60332-1:EQUATION(7),CONSTANT VALUES SEE TABLE 6 CAT.6

PS ELFEXT 4-250MHZ IEC60332-1:EQUATION(7),CONSTANT VALUES SEE TABLE 6 CAT.6

Physical Properties	Insulation	Tens strength（before aging）	Kgf/mm²	>1.68
		Tens strength（after aging）	Kgf/mm²	
		Elongation（before aging）	%	>300%
		Elongation（after aging）	%	
	Jacket	Tens strength（before aging）	Kgf/mm²	>1.41
		Tens strength（after aging）	Kgf/mm²	
		Elongation（before aging）	%	>100%
		Elongation（after aging）	%	
Conductor Resistance			Ω/km 20℃	<93.8
Insulation shrinkback				121℃ x1hr
Insulation cold bend				-20℃x4hr
Jacket cold bend				-20℃x4hr

DIREKTRONIK
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