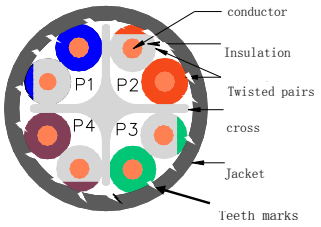
U/UTP Category 6A Stranded Cable Data Sheet

PN:06-8414

Cross Section



Marking

Jacket Marking:
DIREKTRONIK CATEGORY 6A 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 (MM)	7/0.2
Stranded Dia.(MM)	0.6
Insulation	PE
Nom.Thickness (MM)	0.18
Insulation Dia.(±0.005)	0.945/0.975
Sepaiaior	PE Cross
Shield/Braid	/
Overlap(%)	/
Darin wire	/
Jacket	LSZH
Nom.Thickness (MM)	0.6
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: Blue	

benging test	
MAX.pulling	

Perfomance

ELECTRICAL CHARACTERISTICS(20℃)
MAX.CONDUCTOR DC RESISTANCE (/KM) #24:93.8
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: 4-500MHz 100+/-15ohm
4-500MHz 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 4-500MHZ IEC61156-6:EQUATION(2).CONSTANT VALUES SEE TABLE 4 CAT.6
INPUT IMPEDANCE 4-500MHZ IEC61156-6:SEE TABLE 10
NEXT 4-500MHZ IEC61156-6:EQUATION(6),CONSTANT VALUES SEE TABLE 6 CAT.6A
PS NEXT 4-500MHZ IEC61156-6:EQUATION(5),CONSTANT VALUES SEE TABLE 6 CAT.6A
ELFEXT 4-500MHZ IEC61156-6:EQUATION(7),CONSTANT VALUES SEE TABLE 6 CAT.6A
PS ELFEXT 4-500MHZ IEC61156-6:EQUATION(7),CONSTANT VALUES SEE TABLE 6 CAT.6A

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

Designed By:
Date:

Approved By:
Date: