

Cross Section		Performance																																																															
		ELECTRICAL CHARACTERISTICS(20°C) MAX.CONDUCTOR DC RESISTANCE ( /KM) #23:93.8 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 $\geq 537.6$ ns/100M PROPAGATION DELAY SKEW:MAX. $\geq 45$ ns/100M FREQUENCY RANGE MINIMUM REQUIREMENTS(EQUATIONS) <b>INSERTION LOSS</b> 4-500MHZ IEC61156-6:EQUATION(2).CONSTANT VALUES SEE TABLE 4 CAT.6A INPUT IMPEDANCE 4-500MHZ IEC61156-6:SEE TABLE 10 <b>NEXT</b> 4-500MHZ IEC61156-6:EQUATION(6),CONSTANT VALUES SEE TABLE 6 CAT.6A <b>PS NEXT</b> 4-500MHZ IEC61156-6:EQUATION(5),CONSTANT VALUES SEE TABLE 6 CAT.6A <b>ELFEXT</b> 4-500MHZ IEC61156-6:EQUATION(7),CONSTANT VALUES SEE TABLE 6 CAT.6A <b>PS ELFEXT</b> 4-500MHZ IEC61156-6:EQUATION(7),CONSTANT VALUES SEE TABLE 6 CAT.6A																																																															
		<b>Marking</b> Jacket Marking: DIREKTRONIK CATEGORY 6A CABLE U/UTP 23AWG 4 PAIRS LSZH VERIFIED TO EIA/TIA 568B 001M.....305M		<b>Construction</b>																																																													
Conductor Bare Copper 4 Twisted Pair 8C AWG 23 Construction (MM) 1/0.57±0.008 Standard 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) 7.2	<table border="1"> <thead> <tr> <th colspan="2">Color</th> <th colspan="2">Physical Properties</th> <th colspan="2">Conductor Resistance</th> <th colspan="2">Insulation shrinkback</th> <th colspan="2">Insulation cold bend</th> <th colspan="2">Jacket cold bend</th> </tr> </thead> <tbody> <tr> <td>Insulation</td> <td></td> <td rowspan="6">Physical Properties</td> <td rowspan="3">Insulation</td> <td>Tens strength ( before aging )</td> <td>Kgf/mm<sup>2</sup></td> <td>&gt;1.68</td> <td rowspan="6">Conductor Resistance</td> <td rowspan="2"><math>\Omega</math>/km</td> <td rowspan="2">20°C</td> <td rowspan="6">&lt;93.8</td> <td rowspan="6">121°Cx1hr</td> </tr> <tr> <td>Cores:Pairs</td> <td></td> <td>Tens strength ( after aging )</td> <td>Kgf/mm<sup>2</sup></td> <td></td> </tr> <tr> <td>P1:Blue &amp; White</td> <td>P2:Orange &amp; White</td> <td>Elongation ( before aging )</td> <td>%</td> <td>&gt;300%</td> </tr> <tr> <td>P3:Green &amp; White</td> <td>P4:Brown &amp; White</td> <td>Elongation ( after aging )</td> <td>%</td> <td></td> </tr> <tr> <td>Jacket: Blue</td> <td></td> <td rowspan="3">Jacket</td> <td>Tens strength ( before aging )</td> <td>Kgf/mm<sup>2</sup></td> <td>&gt;1.41</td> </tr> <tr> <td>benging test</td> <td></td> <td>Tens strength ( after aging )</td> <td>Kgf/mm<sup>2</sup></td> <td>&gt;100%</td> </tr> <tr> <td>MAX.pulling</td> <td></td> <td>Elongation ( before aging )</td> <td>%</td> <td>&gt;100%</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Elongation ( after aging )</td> <td>%</td> <td></td> </tr> </tbody> </table>				Color		Physical Properties		Conductor Resistance		Insulation shrinkback		Insulation cold bend		Jacket cold bend		Insulation		Physical Properties	Insulation	Tens strength ( before aging )	Kgf/mm <sup>2</sup>	>1.68	Conductor Resistance	$\Omega$ /km	20°C	<93.8	121°Cx1hr	Cores:Pairs		Tens strength ( after aging )	Kgf/mm <sup>2</sup>		P1:Blue & White	P2:Orange & White	Elongation ( before aging )	%	>300%	P3:Green & White	P4:Brown & White	Elongation ( after aging )	%		Jacket: Blue		Jacket	Tens strength ( before aging )	Kgf/mm <sup>2</sup>	>1.41	benging test		Tens strength ( after aging )	Kgf/mm <sup>2</sup>	>100%	MAX.pulling		Elongation ( before aging )	%	>100%				Elongation ( after aging )	%	
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 Designed By:  
 Date:

 Approved By:  
 Date: