

UTP Category 6 Cables

Content of Data Sheet																																																																					
Product model	CAB-LC3100C-E-IN-LSZH / CAB-LC3100C-E-IN-PE/ CAB-LC3100C-E-IN-CM/ CAB-LC3100C-E-IN-CMR																																																																				
Product specification	HSYV-6 4x2x0.57																																																																				
Test Standard	ISO/IEC11801, TIA-568-C.2, RoHS, UL																																																																				
PoE Standards	IEEE 802.3af and IEEE 802.3at																																																																				
Conductor	Material	Solid-Bare Copper																																																																			
	AWG	23 (250 MHz)																																																																			
	Nom. O.D.(mm)	0.57±0.005 mm																																																																			
	DC resistance	≤95 Ω/km																																																																			
Insulation	Material	HDPE																																																																			
	Thickness	0.2±0.02 mm																																																																			
	Diameter	1.02±0.05 mm																																																																			
Color	Blue/White- Blue	Green/White-Green	Electrical Characteristics:																																																																		
	Orange /White-Orange	Brown/White-Brown																																																																			
Pitch	Offset pitch	≤20 mm																																																																			
	Cable pitch	≤120 mm																																																																			
Sheath	Material	PVC (complies RoHS/REAC)																																																																			
	External O.D.	6.2±0.3 mm																																																																			
	Color	Blue(RAL5015) / Orange																																																																			
		/ White-Orange																																																																			
	Tensile strength	>13.5 Mpa																																																																			
	Diameter	6.2±0.3 mm																																																																			
		Thickness	0.6±0.05 mm																																																																		
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Surface Printing	Letter height	3.0±0.3 mm																																																																			
	Color	Black																																																																			
	Print error	1±0.005 m																																																																			
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency</th> <th>Characteristic impedance</th> <th>RL</th> <th>ATT</th> <th>NEXT</th> </tr> <tr> <th>MHz</th> <th>ohm</th> <th>≥dB/100m</th> <th>≤dB/100m</th> <th>≥dB/100m</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>100±15</td> <td>20.0</td> <td>2.0</td> <td>74.3</td> </tr> <tr> <td>4</td> <td>100±15</td> <td>23.0</td> <td>3.8</td> <td>65.3</td> </tr> <tr> <td>10</td> <td>100±15</td> <td>25.0</td> <td>6.0</td> <td>59.3</td> </tr> <tr> <td>16</td> <td>100±15</td> <td>25.0</td> <td>7.6</td> <td>56.2</td> </tr> <tr> <td>20</td> <td>100±15</td> <td>25.0</td> <td>8.5</td> <td>54.8</td> </tr> <tr> <td>31.25</td> <td>100±15</td> <td>23.6</td> <td>10.7</td> <td>51.9</td> </tr> <tr> <td>62.5</td> <td>100±15</td> <td>21.5</td> <td>15.4</td> <td>47.4</td> </tr> <tr> <td>100</td> <td>100±15</td> <td>20.1</td> <td>19.8</td> <td>44.3</td> </tr> <tr> <td>155</td> <td>100±15</td> <td>18.9</td> <td>24.7</td> <td>41.7</td> </tr> <tr> <td>200</td> <td>100±15</td> <td>18.0</td> <td>29.0</td> <td>39.8</td> </tr> <tr> <td>250</td> <td>100±15</td> <td>17.3</td> <td>32.8</td> <td>38.3</td> </tr> </tbody> </table>					Frequency	Characteristic impedance	RL	ATT	NEXT	MHz	ohm	≥dB/100m	≤dB/100m	≥dB/100m	1	100±15	20.0	2.0	74.3	4	100±15	23.0	3.8	65.3	10	100±15	25.0	6.0	59.3	16	100±15	25.0	7.6	56.2	20	100±15	25.0	8.5	54.8	31.25	100±15	23.6	10.7	51.9	62.5	100±15	21.5	15.4	47.4	100	100±15	20.1	19.8	44.3	155	100±15	18.9	24.7	41.7	200	100±15	18.0	29.0	39.8	250	100±15	17.3	32.8	38.3
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	& Space							
	Case number	Yes						
Packing	Packing	Carton		Frequency	FEXT	PS NEXT	PS FEXT	Phase delay
	Once packing dimension	420mm*205mm*420mm		MHz	≥dB/100m	≥dB/100m	≥dB/100m	≤ns/100m
	Twice packing dimension	450mm*440mm*445mm		1	63.8	72.3	64.8	570.0
	Twice packing quantity	2 cases		4	51.7	63.3	57.7	552.0
				10	43.8	57.3	44.8	545.4
			16	39.7	54.3	40.7	543.0	
			20	37.7	52.8	38.7	542.0	
Packing length	305±1m		31.25	33.9	49.9	34.9	540.4	
Separator	Yes		62.5	27.8	45.4	28.8	538.6	
Jacket Material	PE, LSZH, CM, CMR		100	23.8	42.3	24.8	537.4	
			150	20.2	39.4	20.9	536.0	
Rip-cord	Yes	Crossing backbone	200	17.7	37.8	18.7	536.0	
		Yes	250	15.8	36.3	16.8	536.0	
Sheath physical properties	Before aging	Tensile strengths ≥ 13.5Mpa Elongation ≥ 150%						
	Aging period	100°C x 24h x 12d						
	After aging	Tensile strengths ≥ 12.5Mpa Elongation ≥ 125%						
	Cold bend	-30 ± 2°C x 5h, 8 x cable O.D, no visible cracks						
	Cable length	(305 ± 1.5) m						
Ambient temperature	-20°C ~ 60°C							

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*Product specifications and availability are subject to change without notice.