


<b>TYPE: ALN319</b>		<b>CAT 6 CABLE, UTP, 2x4 PAIRS, 100Ω, LSZH CPR Dca-s2,d2,a2</b>				
<b>Design</b> 		Conductor material: solid bare copper Conductor diameter: 0.53±0.01mm /24AWG Insulation material: HDPE Insulation diameter: 0.95±0.05mm Cross Filler: 3.0*0.30mm Jacket material: LSZH (Dca) Outer diameter: (11.1x5.6)±0.5mm Jacket thickness: 0.5mm (Average)				
<b>Complies with Class E &amp; Cat 6 standards, Supports applications up to 250MHz.</b>						
<b>Physical Characteristics</b>			<b>Electrical Characteristics (20°C)</b>			
Conductor Elongation ratio: ≥15% Insulation Tensile strength: ≥16MPa Insulation Elongation ratio: ≥300% Jacket Tensile strength: ≥10MPa Jacket Elongation ratio: ≥125%			Linear Resistance: ≤9.5Ω/100m Insulation Resistance: ≥5000MΩ·km Mutual Capacity 0.8kHz: ≤5.6nF/100m Unbalance Capacity: ≤330pF/100m Characteristic Impedance: 100±5Ω(at 100MHZ) Dielectric Strength: DC.1kV.1min no breakdown NVP: 69%			
<b>Transmission performance (20°C,100m)</b>						
Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS EL FEXT (dB/100m)
1	20	2.0	75.3	72.3	67.8	64.8
4	23	3.8	67.3	63.3	56	53
8	24.5	5.3	62.8	58.8	49.9	46.9
10	25	6.0	61.3	57.3	48	45
16	25	7.6	58.2	54.2	43.9	40.9
20	25	8.5	56.8	52.8	42	39
25	24.3	9.5	55.3	51.3	40	37
31.25	23.6	10.7	53.9	49.9	38.1	35.1
62.50	21.5	15.4	49.4	45.4	32.1	29.1
100	20.1	19.8	46.3	42.3	28	25
200	18.0	29.0	41.8	37.8	22	19
250	17.3	32.8	40.3	36.3	20	17
<b>Installation</b>			<b>Standard</b>			
Working temperature: -20°C to +60°C Bending radius: ≥10×out diameter			ISO/IEC 11801 TIA 568.2-D EN50173 IEC 61156-5 RoHS 2011/65/EU REACH EC 1907/2006			



Doc No.:QEHT/HT J407-2022  
Ver : A1.1 2024/01/04

<b>Packing</b>	
500M	Wooden drum: 50*20*30cm Pallet: 100*100x 112 cm 12drums/Pallet

