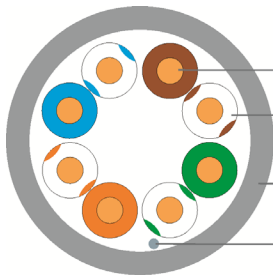


DATA SHEET

Doc No.:QEHT/HT J526-2023
Ver : A1.0 2023/08/17

TYPE: CAT5E 0.5 LSZH B2ca			CATEGORY 5E CABLE,UTP,4 PAIRS,100Ω,LSZH			
<div>Structure</div> <div><div>Conductor</div><div>Insulation</div><div>Jacket</div><div>Rip Cord</div></div>			<div>Conductor material: solid bare copper</div> <div>Diameter: 0.50±0.005mm /24AWG</div> <div>Insulation material: HDPE</div> <div>Diameter: 0.90±0.05mm</div> <div>Rip Cord: optional</div> <div>Jacket material: LSZH (B2ca)</div> <div>Diameter: 5.2±0.3mm</div> <div>Thickness: 0.6mm (Average)</div>			
Complies with Class D & Cat 5E standards, Supports applications up to 100MHz.						
Physical Characteristics			Electrical Characteristics (20℃)			
Conductor Elongation ratio: ≥15%			Linear Resistance: ≤9.5Ω/100m			
Insulation Tensile strength: ≥16MPa			Insulation Resistance: ≥5000MΩ·km			
Insulation Elongation ratio: ≥300%			Mutual capacity 0.8kHz: ≤5.6nF/100m			
Jacket Tensile strength: ≥9MPa			Characteristic Impedance: 100±15Ω			
Jacket Elongation ratio: ≥100%			Dielectric Strength: DC.1kV.1min no breakdown			
Fire Performance						
Flame spread FS≤1.5 m						
Heat release rate Peak HRR≤30 kW Total heat release THR1200s≤15 MJ						
Fire growth rate index FIGRA≤150 Ws -1						
A Single cable Vertical flame propagation H: ≤425 mm						
Transmission performance (20℃,100m)						
Frequency (MHz)	ReturnLoss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	EL FEXT (dB/100m)	PS EL FEXT (dB/100m)
1	20	2.1	65.3	62.3	63.8	60.8
4	23	4.1	56.3	53.3	52	49
8	24.5	5.8	51.8	48.8	45.9	42.9
10	25	6.5	50.3	47.3	44	41
16	25	8.2	47.2	44.2	39.9	36.9
20	25	9.3	45.8	42.8	38	35
25	24.3	10.4	44.3	41.3	36	33
31.25	23.6	11.7	42.9	39.9	34.1	31.1
62.50	21.5	17	38.4	35.4	28.1	25.1
100	20.1	22	35.3	32.3	24	21
Install info			Standard			
working temperature: -20℃ to +60℃			ISO/IEC 11801 IEC-61156-5 TIA568.2-D EN50173			
Bending radius: ≥10×out diameter			EN50575 EN60754 EN61034			
			RoHS 2011/65/EU REACH EC 1907/2006			