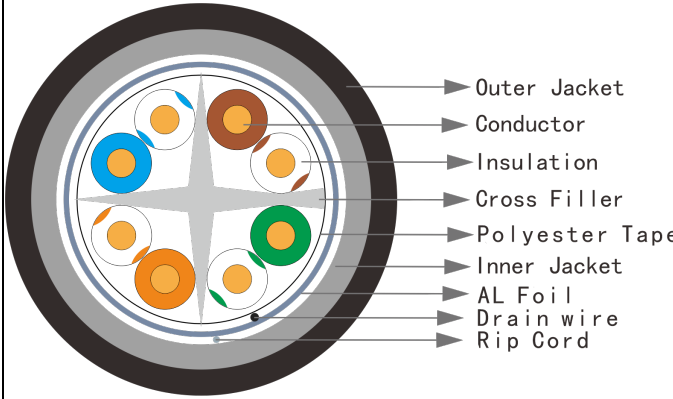


DATA SHEET

Doc No.: QEH/HT J468-2023
Ver : A1.0 2022/02/21

TYPE: F/UTP CAT6 PVC+PE (Fca)				p/n: KLEXI66704PE		
<div>Structure :</div> <div></div>				<div>Conductor: Material: solid bare copper</div> <div>Diameter: 0.55±0.005mm /23AWG</div> <div>Insulation: Material: HDPE</div> <div>Diameter: 1.105±0.05mm</div> <div>Cross Filler: PE</div> <div>Polyester Tape: Overlap rate: ≥25%</div> <div>Al foil : Overlap rate: ≥25%</div> <div>Drain wire : 0.4mm tinned copper</div> <div>Rip cord: Nylon</div> <div>Inner Jacket: Material: PVC</div> <div>Diameter: 7.2±0.5mm</div> <div>Thickness: 0.50mm (Average)</div> <div>Outer Jacket: Material: LDPE</div> <div>Diameter: 8.4±0.5mm</div> <div>Thickness: 0.60mm (Average)</div>		
Physical Characteristics				Electrical Characteristics (20℃)		
<div>Conductor Elongation ratio: ≥15%</div> <div>Insulation Tensile strength: ≥16Mpa</div> <div>Insulation Elongation ratio: ≥300%</div> <div>Jacket Tensile strength PVC: ≥13.5MPa</div> <div>Jacket Elongation ratio PVC: ≥150%</div> <div>Jacket Tensile strength LDPE: ≥10.0MPa</div> <div>Jacket Elongation ratio LDPE: ≥300%</div>				<div>Linear resistance: ≤9.5Ω/100m</div> <div>insulation resistance: ≥5000MΩ·km</div> <div>Characteristic impedance: 100±5Ω(at 100MHZ)</div> <div>Dielectric strength: DC.1kV.1min no breakdown</div> <div>NVP: 70%</div>		
Transmission performance (20℃,100m)						
Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	PS NEXT (dB)	ACRF (dB/100m)	PS ACRF (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
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
Install info			Standard			
working temperature: -20℃ to +60℃ Bending radius: ≥10×out diameter			ISO/IEC 11801 TIA 568.2-D EN50173 IEC 61156-5 RoHS 2011/65/EU REACH EC 1907/2006			