

TECHNICAL TEST REPORT

Part 1



TYPE	SFTP CAT5E	DATE	2019-01-16
		INSPECTOR	檢↑



CONSTRUCTION

Item		Test Value	Structure
Conductor	Material	Copper	
	Diameter	0.50 ± 0.005mm	
	No. of cores	8 (4 pairs)	
Insulation	Material	HDPE	
	Diameter	1.0 ± 0.01mm	
	Thickness	0.25 ± 0.005mm	
Drain wire	Material	CCA	
	Diameter	0.50 ± 0.005mm	
Shield 1	Material	PET Foil	
Shield 2	Material	Blue Al Foil	
Braid	Material	CCA	
	Spec	64*0.12mm	
Sheath	Material	PVC	
	Diameter	6.0 ± 0.2mm	
	Color	Dark gray	

MECHANICAL PERFORMANCE

- | | |
|-----------------------------------|---------------------|
| 1、 Tensile Strength: | ≥400N |
| 2、 Conductor breaking elongation: | ≥15% |
| 3、 Insulation: | |
| Tensile strength | ≥16Mpa |
| breaking elongation | ≥300% |
| 4、 Sheath Pre-aging test: | |
| Tensile strength | ≥17.5Mpa |
| breaking elongation | ≥150% |
| 5、 Sheath after aging test: | |
| Tensile strength | ≥85% Pre-aging test |
| breaking elongation | ≥50% Pre-aging test |

ECHNICAL TEST REPORT

Part 2

ELECTRICAL PERFORMANCE

1、 Characteristic Impedance: 1-100 MHz	100 ± 15 ohms
2、 Rated temperature:	75°C
3、 DC Resistance 20°C Max:	95 ohms/km
4、 Insulation Resistance:	>5000 MΩ .KM
5、 Dielectric strength:	DC 2500V 2S

TRANSMISSION PERFORMANCE

Freq MHz	RL ≥dB	IL ≤(dB/100m)	DOP ≤ns	Delay skew ≤ns	NEXT ≥dB	PSNEXT ≥dB	ACR-N ≥dB	ACR-F ≥dB
1	23.9	2.3	570	45	72.5	71.0	70.2	76.6
4	27.1	4.2	552	45	62.0	61.5	57.8	64.5
8	32.4	5.9	547	45	55.6	54.3	49.8	58.3
10	33.7	6.6	545	45	59.3	57.0	52.8	56.5
16	33.0	8.3	543	45	55.0	52.0	46.8	52.5
20	29.9	9.2	542	45	53.9	51.0	44.7	50.8
25	31.0	10.4	541	45	51.7	48.8	41.3	49.3
31.25	32.3	11.6	540	45	50.5	48.1	38.9	48.1
62.5	25.0	16.8	539	45	46.7	44.5	29.9	45.3
100	23.8	21.6	538	45	41.4	39.8	19.8	40.6

Note: The above transmission performance for the 100m, 20 ± 2°C under the conditions tested

Standard: TIA/EIA568B

