

CAT7 S/FTP

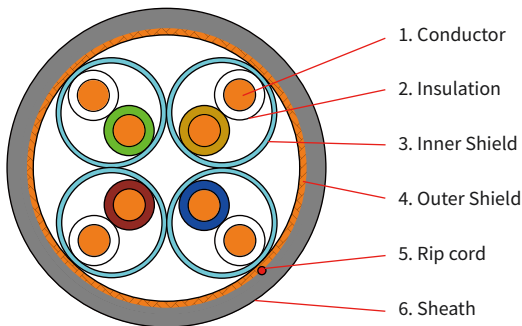
(22AWG/23AWG BC+F-S-F PE+AL/PET)*2*4+
Tinned Copper Braid+Rip Cord

Standards: IEC 61156

ANSI/TIA 568C

EN 50173

YD/T 1019



Technical Data:

Applications: 155MbpsATM, 622MbpsATM, 1000Base-T, 10GBase-T

Storage Temperature: -5°C~+50°C

Operating Temperature: -20°C~+70°C

Tensile Strength. Max: 80N

Minimum Bending Radius: 10D. D is external cable diameter

Voltage Rating: 60V rms to meet the strict flame retardancy and environmental requirements in Europe and USA

Flame Retardancy: UL 1581 (CM Jacket); UL 1666 (CMR Jacket); UL 910 (CMP Jacket); IEC 60332-1 (FR-PVC&LSZH Jacket); IEC 60332-1 and IEC 60332-3C (FR-PVC&LSZH Jacket); CPR E (PVC&LSZH Jacket); CPR D (LSZH Jacket)

Maximum DC Resistance: 5.9Ω/100m (22AWG); 7.5Ω/100m (23AWG)

Maximum Resistance Unbalance: 5%

Maximum Mutual Capacitance: 5.6nF/100m

Working Frequency: 1-600MHz

Characteristic Impedance: 100±15Ω (1-100MHz); 100±22Ω (100-250MHz); 100±25Ω (250-600MHz)

Nominal Velocity of Propagation (NVP): ≥65%

Construction:

1. Conductor: 22AWG/23AWG, solid bare copper conductor

2. Insulation: Foam-skin-foam PE

Twisted Pair:

White/Blue

White/Orange

White/Green

White/Brown

3. Inner Shield: Individual Al foil (Al face outside) for each pair

4. Outer Shield: Covered by tinned copper

5. Rip Cord

6. Sheath: PVC/PE/LSZH, colours according to customer requirements



Specification Parameters:

FREQ (MHz)	RL (dB/100m)	IL (dB/100m)	NEXT (dB/100m)	ACR (dB/100m)	PSNEXT (dB/100m)	PSACR (dB/100m)	PS ELFEXT (dB/100m)
1	20.0	2.0	78	76	75	73	75
4	23.0	3.7	78	74	75	71	75
10	25.0	5.9	78	72	75	69	71
16	25.0	7.4	78	71	75	67	67
20	25.0	8.3	78	70	75	67	65
31.25	23.6	10.4	78	68	75	65	61
62.5	21.5	14.9	78	63	73	58	55
100	20.1	19.0	75	56	69	50	51
200	18.0	27.5	71	44	65	37	45
250	17.3	31.0	69	38	63	32	43
300	17.3	34.2	68	34	62	28	41
600	17.3	50.1	60	10	58	8	35