

CAT 6 S-UTP (Ultra+) HF 4 x 2 x 23 AWG



Application

These cables are used in data communication networks with 250 MHz bandwidth capacity. Thanks to the HFFR material that is used in these cables, they are flame retardant, moreover they do not extract poisonous gases and black smoke when they are in fire.

Constructive Data

- 23 AWG Bare Copper
- PE Insulation
- Cores twisted in pairs
- Pairs stranded together with star shaped separator
- Polyester tape is wrapped over laid up cores
- 24 AWG Tinned copper drain wire
- Overall Al-Pes foil screen
- HFFR outer sheath
- Packing in 305m box or 1000m drum

Electrical Data

Characteristic Impedance

100 ± 15 Ω

Capacitance

56 nF / km

Conductor Resistance

(at 20 °C) 72 Ω / km

Insulation Resistance

500 MΩ / km

Operating Voltage

250 V

Test Voltage

1200 V

Operating Temperature

-30°C ... + 70°C

Min. Bending Radius

10 x Overall Diameter

Flame Behaviour

Flame retardant according to IEC 60332-1

Low Smoke

Low smoke according to IEC 61034-2

Frequency (MHz)	Attenuation (dB/100 m)	Near - End Crosstalk (NEXT) Lost Min. (dB)	PS Near - End Crosstalk (PS NEXT) Lost Min. (dB)	Equal Level Far - End Crosstalk (ELFEXT) Min. (dB/100 m)	PS Equal Level Far - End Crosstalk (PSELFEXT) Min. (dB/100 m)	Return Loss (RL) Min. (dB)
0.772	1.8	76.0	74.0	70.0	67.0	19.4
1	2	74.3	72.3	67.8	64.8	20.0
4	3.8	65.3	63.3	55.8	52.8	23.0
8	5.3	68	58.8	49.7	46.7	24.5
10	6	59.3	57.3	47.8	44.8	25.0
16	7.6	56.2	54.2	43.7	40.7	25.0
20	8.5	54.8	52.8	41.8	38.8	24.3
25	9.5	53.3	51.3	39.8	36.8	23.6
31.25	10.7	51.9	49.9	37.9	34.9	21.5
62.5	15.4	47.4	45.4	31.9	28.9	20.1
100	19.8	44.3	42.3	27.8	24.8	18.0
200	29	39.8	37.8	21.8	18.8	17.3
250	32.8	38.3	36.3	19.8	16.8	16.8