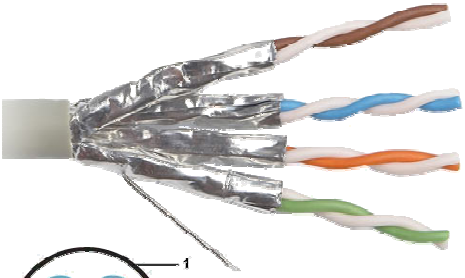
Category6 SSTP Solid Indoor Cable

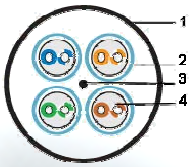
Specification

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating



Description

Shielded Copper cable, 4 pairs, category 6, solid
4 separately foil-shielded twisted pairs
Cable is used for indoor installation



1 – Jacket
2 – Shield-foil
3 – Drain wire
4 – Solid twisted pair

Material

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC / LSZH / Plenum
Every pair is separately 100% shielded with polyester aluminum foil

Technical Characteristic

Conductor diameter: 0.56 ± 0.01 mm (0.022" ± 0.0004") (23 AWG)
Insulated conductor diameter: 1.43 mm (0.056")
Outer cable diameter: 7.8 mm (0.3")
Jacket thickness: 0.7 mm (0.0275")
Pulling strength: 130 N maximum
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling

Conductor elongation: 14% minimum
Rip cord has a breaking strength of 10 kg (98 N)
Drain wire diameter: 0.5 mm (0.01968")
Installation temperature is -5°C – +50°C (+23°F – +122°F)
Operating temperature: -20°C – +60°C (-4°F – +140°F)
Weight per 1000 ft (304.8 m): 23 AWG 16.4 kg (36.16 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	Pair Attenuation, dB/100m (dB/100ft)	NEXT, dB	PS NEXT, dB	PP ELFEXT, dB/100m (dB/100ft)	PS ELFEXT, dB/100m (dB/100ft)	RL, dB
1	2 (0.6)	80	77	75 (22.86)	72 (21.94)	20
4	3.8 (1.16)	80	77	75 (22.86)	72 (21.94)	23
10	6 (1.83)	80	77	75 (22.86)	72 (21.94)	25
16	7.6 (2.32)	80	77	75 (22.86)	72 (21.94)	25
20	8.5 (2.59)	80	77	75 (22.86)	72 (21.94)	25
31.25	10.7 (3.26)	80	77	75 (22.86)	72 (21.94)	23.6
62.5	15.4 (4.69)	80	77	75 (22.86)	72 (21.94)	22
100	19.8 (6.03)	80	77	70 (21.34)	67 (20.42)	21
125	22.4 (6.83)	70	67	65 (19.81)	62 (19.90)	20
200	29 (8.84)	70	67	60 (18.29)	57 (17.37)	19
250	35.6 (10.85)	70	67	55 (16.77)	52 (15.04)	18

Maximum conductor resistance at 20°C (68°F)	73.0Ω/km (117.48Ω/mile)
Resistance unbalance	2% max.
Resistance at the frequency of 1-250 MHz	100Ω ± 15%
Transfer impedance at the frequency of 1 MHz	50MΩ/m (15.24MΩ/ft) max.
Transfer impedance at the frequency of 10 MHz	100MΩ/m (30.48MΩ/ft) max.
Transfer impedance at the frequency of 30 MHz	200MΩ/m (60.69MΩ/ft) max.
Insulation resistance at 20°C (68°F)	152MΩ/km (244.62MΩ/mile) min.
Capacitive unbalance at the frequency of 1 kHz	1.5pF/m (0.46pF/ft)
Capacity at the frequency of 1 kHz	43pF/m (13.1pF/ft)
Maximum voltage	60V RMS
Dielectric rigidity	700V per minute
Propagation velocity	80%
Max. derivation of propagation delay at freq. of 1-250 MHz	25ns/100m (7.62ns/100 ft)

Ordering Information

HI06TSM-**C**	i-Net Networks Horizontal Indoor Cable Category6 SSTP Solid 23AWG 4Pair Milky Gray CM
C	**C**—CM, **L**—LSZH, **P**—Plenum