

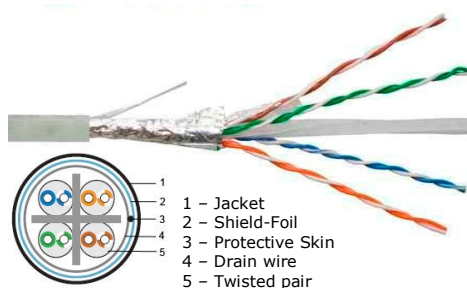
Category6 FTP Solid Indoor Cable

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

Foiled Copper cable, 4 pairs, category 6, solid
 4 foiled twisted pairs
 General shield: aluminum foil
 Cable is used for indoor installation



Material

Conductive material: wire made of soft annealed electrolytic copper
 Conductor insulation: HDPE, film-porous-film structure
 The cable jacket: PVC / LSZH / Plenum
 Shield: 4 pair is foiled with polyester aluminum foil, which covers 100% of twisted pair
 General shield: An aluminum tape shield is helically applied over the cable core with a minimum overlap of 25% or 5 mm (0.19"), thickness – 0.025 mm (0.001"), width – 20 mm (0.78")

Technical Characteristic

Conductor diameter: 0.56-0.51 ± 0.01 mm (23-24 AWG)
 Insulated conductor diameter: 1.56 mm (0.06")
 Outer cable diameter: 8.4 mm (0.33")
 Jacket thickness: 0.5 mm (0.019")
 Pulling strength: 130 N maximum
 Minimum bend radius: 9xØ while installation, 7xØ while vertical cabling, 5xØ while horizontal cabling
 Conductor elongation: 14% minimum
 Operating temperature: -20°C – +60°C (-4°F – +140°F)
 Weight per 1000 ft (304.8 m): 24 AWG 12.5 kg (27.56 lbs) / 23 AWG 14.5 Kg (31.97 lbs)
 Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8
200.0	19.5	25.6	32.2	29.8	19.6	18.7
250.0	18.7	29.3	29.4	26.4	16.8	16.8

Max conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
Max Resistance Unbalance	5%
Max pair-to-ground capacitance unbalance	330pF/100m (101pF/100ft)
Characteristic Impedance at 1-250 MHz	85Ω-115Ω
Mutual capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

Ordering Information

HI06FSM-**3-C** i-Net Networks Horizontal Indoor Cable Category6 FTP Solid 23AWG 4Pair Milky Gray CM
3—23AWG, **4**—24AWG
C—CM, **L**—LSZH, **P**—Plenum