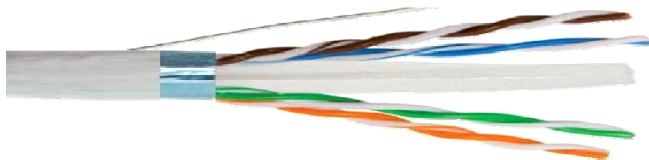


i-Net Networks Category6 F/UTP Solid Cable

**Material**

Conductive material: Soft annealed electrolytic copper

Conductor insulation: HDPE, film-porous-film structure

Cable jacket: PVC/LSZH

Shield: Aluminum foil helically applied over twisted pair

Shield thickness & width: 0.025 mm (0.001") & 20 mm (0.78")

Electrical

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

Technical

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

HI06FS**M**-3-**C** i-Net Networks Horizontal Cable Category6 F/UTP Solid 23AWG 4-Pair Milky Gray PVC

M **M**-Milky Gray, **B**-Blue, **G**-Green, **Y**-Yellow, **O**-Orange, **R**-Red, **W**-White

C **C**-PVC, **L**-LSZH

Compliance

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets fire retardant low smoke IEC60332-1 rating

Physical

Conductor diameter: 0.55±0.01 mm (23 AWG)
Insulated conductor diameter: 1.56 mm (0.06")
Outer cable diameter: 8.4±0.2 mm (0.33"±0.008")
Jacket thickness: 0.5 mm (0.019")
Pulling strength: 130 N maximum
Minimum bend radius:
9xØ (installation), 7xØ (vertical cabling), 5xØ (horizontal cabling)
Conductor elongation: 14% minimum
Operating temperature: -20°C~+60°C (-4°F~+140°F)
Weight per 1000 ft (304.8 m): 14.5 Kg (31.97 lbs)
Standard package: 304.8 m (1000 ft)