

i-Net Networks Category6 F/UTP Solid Cable PE Single Jacket Outdoor



Compliance

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets general purpose cable UL-1581 CM rating

Material

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
Cable inner & outer jacket: PVC & UV resistant black PE
Shield: Aluminum foil helically applied over twisted pair
Shield thickness & width: 0.025 mm (0.001") & 20 mm (0.78")

Physical

Conductor diameter: 0.55±0.01 mm (23 AWG)
Insulated conductor diameter: 1.56 mm (0.06")
Outer cable diameter: 8.9±0.2 mm (0.35"±0.008")
Jacket thickness: 0.65 mm (0.025")
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): 16 Kg (35.27 lbs)
Standard package: 304.8 m (1000 ft)

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

HO06FSL-3-E i-Net Networks Horizontal Cable Category6 F/UTP Solid 23AWG 4-Pair Black PE Single Jacket Outdoor