

i-Net Networks Category5e Unshielded Solid Multi-Pair Riser Cable

Indoor



Outdoor



Compliance

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

Highlights

Unshielded Copper, category 5e, solid Available in 25, 50, 100 pairs Cable is used for indoor/outdoor installation

Material

Conductive material: Soft annealed electrolytic copper

Conductor insulation: HDPE

The cable jacket: PVC, PE. Optional Jelly and Armored

Electrical

Frequency, MHz	Max Attenuation, dB/100 m (ft)	PS-NEXT, dB	PS-ACR, dB/100m (ft)
0.772	1.8 (0.55)	64	62.2 (19.0)
1.0	2.0 (0.6)	62	60.0 (18.3)
4.0	4.1 (1.3)	53	48.9 (14.9)
8.0	5.80 (1.8)	48	42.2 (12.9)
10.0	6.5 (2.0)	47	40.5 (12.3)
16.0	8.2 (2.5)	44	35.8 (10.9)
20.0	9.3 (2.8)	42	32.8 (10.0)
25.0	10.4 (3.2)	41	30.6 (9.3)
31.25	11.7 (3.6)	39	28.3 (8.6)
62.5	17.0 (5.2)	35	18.0 (5.5)
100.0	22.0 (6.7)	32	10.0 (3.0)

Technical

Max. dc resistance at 20°C (68°F)	93.8Ω/km (151.3Ω/mile)
Resistance at 1-100 MHz	100Ω ±15%
Resistance unbalance	3%
Capacity at the frequency of 1 kHz	50±4 pF/m (15.3±1 pF/ft)
Capacitive unbalance at 1 kHz	3300pF/km (5322.6pF/mile)
Maximum voltage	300V
Min. unbalance losses at 64 kHz	43dB
Insulating strength	700V RMS
Propagation velocity	68%



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Technical

Max. propagation delay:
at the frequency of 1 MHz
at the frequency of 10 MHz
5.7ns/m (1.74ns/ft)
5.4ns/m (1.64ns/ft)
at the frequency of 100 MHz
5.3ns/m (1.61ns/ft)

Derivation propagation delay 35ns/100m (10.67ns/100ft) Min. insulating resistance 5G Ω /km (8.05G Ω /mile)

Physical

Parameters	25 Pair	50 Pair	100 Pair
Conductor diameter	0.51 mm (24 AWG)	0.51 mm (24 AWG)	0.51 mm (24 AWG)
Insulated conductor diameter	0.9 mm (0.035")	0.9 mm (0.035")	0.9 mm (0.035")
Outer cable diameter	11.4 mm (0.45")	17.8 mm (0.70")	24.6 mm (0.97")
Jacket thickness	1.0 mm (0.039")	1.0 mm (0.039")	1.0 mm (0.039")
Minimum bend radius	10xØ	10xØ	10xØ
Conductor elongation	Min 14%	Min 14%	Min 14%
Rip cord breaking strength	10 kg (98 N)	10 kg (98 N)	10 kg (98 N)
Pulling strength	500 N	500 N	500 N
Breaking strength	600 N	600 N	600 N
Installation temperature	-10°C to +40°C	-10°C to +40°C	-10°C to +40°C
Operating temperature	-40°C to +70°C	-10°C to +50°C	-10°C to +50°C
Weight per Std. Pack	65.2 kg (143.7 lbs)	103.6 kg (228.5 lbs)	174 kg (383.7 lbs)
Standard package	304.8 m (1000 ft)	304.8 m (1000 ft)	304.8 m (1000 ft)

Ordering

R5EX-I-25 i-Net Networks Riser Cable Category5e UTP Solid 24AWG CMX Indoor PVC Milky Gray 25 Pair

I-Indoor PVC Milky Gray, J-Outdoor Jelly Filled PE Black, A-Outdoor Armored PE Black

25 25-25 Pair, 50-50 Pair, 1H-100 Pair