

Category 5e UTP Solid Riser Cable

Specification

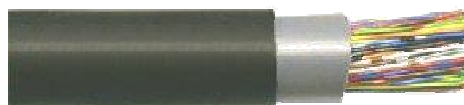
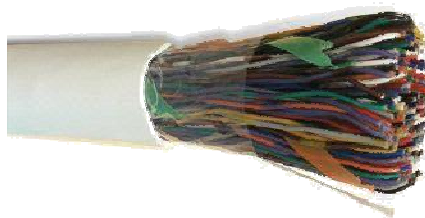
Meets ANSI/EIA/TIA 568-B.2 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating

Description

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

Material

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC, PE Jelly, PE Armored



Electrical Characteristic

Frequency, MHz	Max Attenuation, dB/100 m (ft)	PS-NEXT, dB	PS-ACR, dB/100m (ft)	Max. dc resistance at 20°C (68°F)	93.8Ω/km (151.3Ω/mile)
0.772	1.8 (0.55)	64	62.2 (19.0)	Resistance at 1-100 MHz	100Ω ±15%
1.0	2.0 (0.6)	62	60.0 (18.3)	Resistance unbalance	3%
4.0	4.1 (1.3)	53	48.9 (14.9)	Capacity at the frequency of 1 kHz	50±4 pF/m (15.3±1 pF/ft)
8.0	5.80 (1.8)	48	42.2 (12.9)	Capacitive unbalance at 1 kHz	3300pF/km (5322.6pF/mile)
10.0	6.5 (2.0)	47	40.5 (12.3)	Maximum voltage	300V
16.0	8.2 (2.5)	44	35.8 (10.9)	Min. unbalance losses at 64 kHz	43dB
20.0	9.3 (2.8)	42	32.8 (10.0)	Insulating strength	700V RMS
25.0	10.4 (3.2)	41	30.6 (9.3)	Propagation velocity	68%
31.25	11.7 (3.6)	39	28.3 (8.6)	Max. propagation delay: at the frequency of 1 MHz	5.7ns/m (1.74ns/ft)
62.5	17.0 (5.2)	35	18.0 (5.5)	at the frequency of 10 MHz	5.4ns/m (1.64ns/ft)
100.0	22.0 (6.7)	32	10.0 (3.0)	at the frequency of 100 MHz	5.3ns/m (1.61ns/ft)
				Derivation propagation delay	35ns/100m (10.67ns/100ft)
				Min. insulating resistance	5GΩ/km (8.05GΩ/mile)

Technical Characteristics

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 Information

R5EX-**I-25** i-Net Networks Riser Cable Category 5e 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 Pair, **50**—50 Pair, **1H**—100 Pair