

## Category3 UTP Riser Solid Cable

### Specification

Meets EIA/TIA 568-B for category 3 requirements  
Meets general purpose cable UL-1581 CM rating  
Meets fire retardant low smoke IEC60332-1 rating

### Description

Unshielded Copper cable, 10, 20, 30, 50, 100 pairs, category 3, solid.  
Cable is used for indoor/outdoor installation

### Material

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

### Electrical Characteristic

Max DC Resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100 ft)	Maximum voltage	300V
Max Resistance Unbalance	3%	Characteristic Impedance 1-16 MHz	85Ω-115Ω
Max Capacitance unbalance – pair-to-ground at 1kHz	330pF/100m (101pF/100ft)	Min Relative Velocity of Propagation at 10 MHz	0.585
Max attenuation at 20°C (68°F)		Min worst pair to pair NEXT loss at	
At 772 kHz	2.2dB/100m (0.67dB/100ft)	772 kHz	43dB
At 1 MHz	2.6dB/100m (0.79dB/100ft)	At 1 MHz	41dB
At 4 MHz	5.6dB/100m (1.70dB/100ft)	At 4 MHz	32dB
At 8 MHz	8.5dB/100m (2.59dB/100ft)	At 8 MHz	27dB
At 10 MHz	9.7dB/100m (2.96dB/100ft)	At 10 MHz	26dB
At 16 MHz	13.1dB/100m (3.99dB/100ft)	At 16 MHz	23dB

Min worst pair Structural Return Loss (SRL) upto 10 MHz-12dB; At 16 MHz-10dB

### Technical Characteristics

Parameters	10 Pair	20 Pair	30 Pair	50 Pair	100 Pair
Conductor diameter	0.41~0.51 mm (26~24 AWG)	0.41~0.51 mm (26~24 AWG)	0.41~0.51 mm (26~24 AWG)	0.41~0.51 mm (26~24 AWG)	0.41~0.51 mm (26~24 AWG)
Insulated conductor diameter	0.9 mm (0.035")	0.9 mm (0.035")	0.9 mm (0.035")	0.9 mm (0.035")	0.9 mm (0.035")
Outer cable diameter	7.5 mm (0.295")	9.5 mm (0.374")	11 mm (0.433")	15 mm (0.590")	20.0 mm (0.787")
Jacket thickness	1.0 mm (0.039")	1.0 mm (0.039")	1.0 mm (0.039")	1.0 mm (0.039")	1.0 mm (0.039")
Maximum strand pitch	100 mm (3.937")	100 mm (3.937")	100 mm (3.937")	150 mm (5.9")	150 mm (5.9")
Minimum bend radius	6xØ	6xØ	6xØ	8xØ	8xØ
Conductor elongation	Min 14%	Min 14%	Min 14%	Min 14%	Min 14%
Operating temperature	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C
Weight per Std. Pack	32.0 kg (70.55 lbs)	51.2 kg (112.9 lbs)	67.2 kg (148.1 lbs)	96 kg (211.6 lbs)	169 kg (372.6 lbs)
Standard package	500 m (1640 ft)	500 m (1640 ft)	500 m (1640 ft)	304.8 m (1000 ft)	304.8 m (1000 ft)

### Ordering Information

R34X-**I-10** i-Net Networks Riser Indoor Cable Category3 UTP Solid 24AWG 10 Pair CMX

R36X-**I-10** i-Net Networks Riser Indoor Cable Category3 UTP Solid 26AWG 10 Pair CMX

**I** **I**—Indoor PVC Milky Grey, **J**—Outdoor PE Jelly Filled Black, **A**—Outdoor PE Armored Black

**10** **10**—10 Pair, **20**—20 Pair, **30**—30 Pair, **50**—50 Pair, **1H**—100 Pair