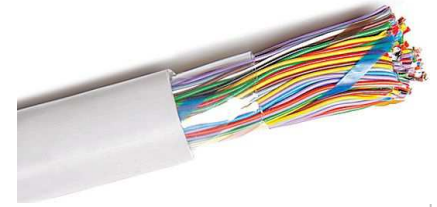


AT&T CopperLine Technical Specification

Cable Type: 25x2x24# U/UTP Category 3
100 Ohm Indoor Backbone Cable - PVC Jacket
AT&T P/N: 11U03VA025N-GY
Revision: 1 Date: 08 January 2015



25 Pair Category 3 U/UTP backbone indoor cable, conforming to TIA-568-C.2 and IEC 61156-4. The cable contains 25 twisted pairs cabled together. The core is wrapped with polyester tape and overall jacketed with PVC compound for indoor use. The cable conforms to EU Directive 2011/65/EU (RoHS-II) and to IEC 60332-1 flame test.

Physical Description

Basic conductor	Solid 24AWG, bare annealed copper.
Insulation	Polyolefin.
Insulated conductors	50
Twisted pairs	25
Color code	Below.
Core formation	25 pairs cabled together.
Water blocking	None.
Tape warp	Polyester tape.
Rip cord	PA rope laid in parallel for easy jacket removal.
Outer jacket	PVC compound for indoor use.
Outer jacket thickness	1.2 mm nom.
Color	Grey RAL 9002.
Outer diameter	11.5±0.5 mm.
Surface Marking (black)	AT&T CopperLine 25P 24AWG CAT3 U/UTP INDOOR PVC IEC 60332-1 TIA-568-C.2 CE 2011/65/EU (RoHS) [Batch Number] [Meter Mark] METER --- P/N 11U03VA025N-GY ---

Mechanical Properties

Bend Radius	Permanent: 15xD min. During installation: 30xD min.
Operating temperature range	-20 to +60C
Storage temperature range	-10 to +60C
Installation temperature range	0 to +50C
Flame test	IEC 60332-1
Pulling force	250 N max.
Total Weight	170 Kg/Km nom.

Electrical Properties

Characteristic Impedance	100±15 Ohm @ 1-16 MHz
DC Resistance	93.8 Ohm/Km max.
Resistance unbalance	5% max.
Capacitance	66 pF/m max. @ 1 KHz
Cap. Unbalance (pair to ground)	3300 pF/Km max. @ 1 KHz.
Voltage rating	75V max
Dielectric strength	1500 Volts/1 minute min rms
Velocity of Propagation (NVP)	67-69%
Insulation Resistance	5000 MegaOhm*Km min. @ 500 Vdc

Transmission Properties - Category 3 ANSI/TIA-568-C.2 Backbone Cable Limits

FREQ. MHz	Insertion Loss dB/100m Max	NEXT dB Min	PS NEXT dB Min	SRL dB Min	Prop. Delay nS/100m Max
0.772	2.2	43.0	43.0	12.0	575.0
1.00	2.6	41.0	41.0	12.0	570.0
4.00	5.6	32.3	32.3	12.0	552.0
8.00	8.5	27.8	27.8	12.0	546.7
10.00	9.7	26.3	26.3	12.0	545.4
16.00	13.1	23.3	23.3	10.0	543.0

Color Code

Pair	Tip	Ring	Pair	Tip	Ring
1	Blue	White	13	Green	Black
2	Orange		14	Brown	
3	Green		15	Grey	
4	Brown		16	Blue	
5	Grey	Red	17	Orange	Yellow
6	Blue		18	Green	
7	Orange		19	Brown	
8	Green		20	Grey	
9	Brown		21	Blue	
10	Grey		22	Orange	
11	Blue	Black	23	Green	Violet
12	Orange		24	Brown	
			25	Grey	