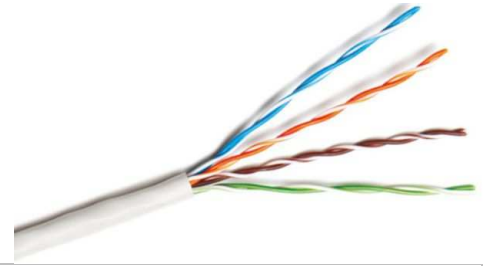


AT&T CopperLine Technical Specification

Cable Type: 4x2x24# U/UTP Category 3
100 Ohm Indoor Horizontal Cable - PVC
AT&T P/N: 11U03VA004N-GY
Revision: 1 Date: 04 December 2016



Category 3 U/UTP indoor cable, conforming to TIA-568-C.2. The cable contains 4 twisted pairs cabled together and overall jacketed with a gray PVC compound for indoor use. The cable conforms to EU Directive 2011/65/EU (RoHS-II) and to IEC 60332-1.

Physical Description

Basic conductor	Solid 24AWG, bare annealed copper.
Insulation	Polyolefin.
Insulated conductors	8
Twisted pairs	4
Color code	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown.
Center element	None.
Tape warp	None.
Outer jacket	PVC compound for indoor use.
Color	Light Gray RAL 9002.
Outer jacket thickness	0.5 mm nom.
Outer diameter	4.8 mm nom.
Surface Marking	AT&T CopperLine 4P 24AWG CAT3 U/UTP PVC IEC 60332-1 TIA-568-C.2 CE 2011/65/EU (RoHS) [Batch Number] [Meter Mark] METER --- P/N 11U03VA004N ---

Mechanical Properties

Bend Radius	Permanent: 4xD min. During installation: 8xD min.
Operating temperature range	-20 to +60C
Storage temperature range	-40 to +70C
Installation temperature range	0 to +50C
Pulling force	50 N max.
Flame test	IEC 60332-1
Total Weight	30 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
Coupling attenuation	IEC 61156-5 TYPE III
Transfer Impedance	N/A

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