



UTP (Unscreened Twisted Pair) for use as horizontal cable in generic cabling systems. The UTP cable has solid copper conductors insulated with PE. The cable is supplied with PVC or LSFROH Jacket. All cables are approved in accordance with the most stringent test procedures. They are also 3P and ETL Verified in accordance with the following standards: ISO/IEC 11801, EIA/TIA 568B.2 and EN 50173

## Generic Cabling UTP Cat 5E 125MHz

**4x2/0.51mm PVC**  
**4x2/0.51mm LSOH**  
**4x2/0.51mm LSFROH**

### Cable Construction

Number of pairs	Sheath Material	Conductor dimension (mm)	Insulation diameter (mm)	Insulation Color	Cable diameter (mm)	Weight (kg/km)
4	PVC	0.51	0.96 PE	BLUE / White-Blue ORANGE / White-Orange GREEN / White-Green BROWN / White-Brown	5.4 +/- 0.10	30
4	LSOH/LSFROH	0.51	0.96PE		5.6 +/- 0.10	38

### Cable Properties

<b>Bending</b> Minimum bending radius installed	4 x D	<b>Fire classification</b> PVC IEC 60332-1 LSOH IEC61034, IEC60754, IEC 60332-1 LSFROH IEC61034, IEC60754, IEC 60332-3C
<b>Tensile strength</b> Maximum tensile load, installation Maximum tensile load, installed	100 N No stretch	
<b>Temperature window</b> Operation Installation	-20°C to +60°C 0°C to +50°C	

### Electrical Data at 20°C

Frequency	Attenuation, nom. (dB/100m)	NEXT (dB)	ACR (dB)	PS NEXT (dB)	PS ACR (dB)	ELFLEX (dB)	PSELFLEX (dB)
1.0 MHz	2.0	67.0	65.0	65.0	63.0	69.0	66.0
4.0 MHz	4.0	58.0	54.0	56.0	52.0	56.8	53.8
10.0 MHz	6.4	52.0	45.6	50.0	43.6	49.0	46.0
16.0 MHz	8.2	48.9	40.7	46.9	38.7	44.8	41.8
20.0 MHz	9.2	47.5	38.3	45.5	36.3	42.5	39.5
31.25 MHz	11.6	44.6	33.0	42.6	31.0	39.0	36.0
62.5 MHz	16.9	40.1	23.2	38.1	21.2	32.9	29.9
100 MHz	21.8	37.0	15.2	35.0	13.2	29.0	26.0
130 MHz	25.2	35.3	10.1	33.3	8.1	25.5	22.5
<b>Characteristic impedance</b> (1-130 MHz)		100 Ω ± 15 ohm					
<b>Mean Characteristic impedance</b> (1-130 MHz)		100 Ω ± 10					
<b>DC-loop resistance</b>		170 ohm/km		<b>Return Loss</b> (1-100MHz) min			-23 dB
<b>Resistance unbalance</b> , maximum		2 %		<b>Mutual capacitance</b> , nominal			47 pF/m
<b>Propagation Delay</b> , minimum margin to limit		800 nsec/km		<b>Capacitance unbalance</b> , maximum			300 pF/km
<b>Skew</b> , maximum at 100MHz		200 nsec/km		<b>Nominal velocity of propagation</b>			0.7 c

### Ordering Information

Cable code	Variant	Colour RAL no.	Delivery length	Draka Part no.	Flame Test
UTP Flame ret. 4x2/0.51 Category 5E	PVC	Grey 7032	Box 305m	52004	IEC 332-1
UTP Flame ret. 4x2/0.51 Category 5E	PVC	Grey 7042	Box 305m	52006	CM (UL 1666)
UTP LSOH 4x2/0.51 Category 5E	LSOH	Orange	Box 305m	52026	IEC 332-1
UTP LSFROH 4x2/0.51 Category 5E	LSFROH	Orange	500m	52028	IEC 332-3C

We reserve the right to alter this specification without notice.



Datcom Cable Technologies