



Draka Comteq

Generic Cabling UTP Cat 5E 125MHz

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, PE, LSOH or FRLSOH 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.,m

UL Verificaiton and CM/CMR Listing version is available.

4x2/0.51mm	PVC
4X2/0.51mm	PE
4x2/0.51mm	LSOH
4x2/0.51mm	FRLSOH

Cable Construction

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

Cable Properties

Bending Minimum bending radius installed	4 x D	Fire classification PVC LSOH FRLSOH	IEC 60332-1, UL CM, UL CMR IEC61034, IEC60754, IEC 60332-1 IEC61034, IEC60754, IEC 60332-3C
Tensile strength Maximum tensile load, installation Maximum tensile load, installed	100 N No stretch	Operating Voltage Nomial Maximum	30V DC 72V DC
Temperature window 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
Characteristic impedance (1-130 MHz)		100 Ω ± 15 ohm					
Mean Characteristic impedance (1-130 MHz)		100 Ω ± 10 ohm					
DC-loop resistance		170 ohm/km		Return Loss (1-100MHz) min		-23 dB	
Resistance unbalance , maximum		2 %		Mutual capacitance , nominal		47 pF/m	
Propagation Delay , minimum margin to limit		800 nsec/km		Capacitance unbalance , maximum		300 pF/km	
Skew , maximum at 100MHz		200 nsec/km		Nominal velocity of propagation		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 7037	Box 305m	52006	CM (UL 1666)
UTP Flame ret. 4x2/0.51 Category 5e	PVC	Grey 7037	Box 305m	52008	CMR (UL 1666)
UTP PE 4x2/0.51 Category 5e	PE	Black	Box 305m Drum 1000m	52034	N.A.
UTP LSOH 4x2/0.51 Category 5e	LSOH	Orange/Grey 7035		52026	IEC 332-1
UTP FRLSOH 4x2/0.51 Category 5e	FRLSOH	Orange/Grey 7035		52028	IEC 332-3C

We reserve the right to alter this specification without notice.



Datacom Cable Technologies