



## Generic Cabling

### UTP Cat 5E 125MHz

### UC 300 24

4x2/0.5mm PVC  
 4x2/0.5mm PE  
 4x2/0.5mm LSHF



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 (UV stabilised) or LSHF Jacket. All cables are approved in accordance with the most stringent test procedures. They are also 3P verified in accordance with the following standards: ISO/IEC 11801, EIA/TIA 568B.2 and EN 50173. UL Verification and CM/CMR Listing version is available on request. The LSHF Version has tested and verified by 3P to IEC 60332-1, IEC 61034 and IEC 60754 safety standards

### Cable Construction

Number of Pairs	Sheath Material	Conductor Dimension (mm)	Insulation Diameter (mm)	Insulation Color	Cable Diameter (mm)	Weight (kg/km)
4	PVC PE LSHF	0.5	0.9 PE	BLUE / White-Blue ORANGE / White-Orange GREEN / White-Green BROWN / White-Brown	4.8	28

### Cable Properties

Bending		Fire classification	
Minimum bending radius installed	4 x D	PVC	IEC 60332-1, UL CM, UL CMR
Tensile strength		LSHF	IEC61034, IEC60754, IEC 60332-1
Maximum tensile load, installation	100 N		
Maximum tensile load, installed	No stretch		
Temperature window		Operating Voltage	
Operation	-20°C to +60°C	Nominal	30V DC
Installation	0°C to +50°C	Maximum	72V DC

### Electrical Data at 20°C

Frequency	Attenuation, nom. (dB/100m)	NEXT (dB)	ACR (dB)	Return Loss (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	23.0	56.0	52.0	56.8	53.8	
10.0 MHz	6.3	52.0	45.7	25.0	50.0	43.7	49.0	46.0	
16.0 MHz	8.0	48.9	40.9	25.0	46.9	38.9	44.8	41.8	
20.0 MHz	9.0	47.5	38.5	25.0	45.5	36.5	42.5	39.5	
31.25 MHz	11.4	44.6	33.2	23.6	42.6	31.6	39.0	36.0	
62.5 MHz	16.5	40.1	23.6	21.5	38.1	21.6	32.9	29.9	
100 MHz	21.3	37.0	15.7	20.1	35.0	13.7	29.0	26.0	
130 MHz	24.6	35.3	10.7	19.3	33.3	8.4	25.5	22.5	
Characteristic impedance (1-130 MHz)			100 Ω + 15 ohm		Mutual capacitance, nominal			47 pF/m	
Mean Characteristic impedance @100 MHz			100 Ω ± 5 ohm		Capacitance unbalance, maximum			300 pF/km	
DC-loop resistance				170 ohm/km	Nominal velocity of propagation (NVP)				0.69 c
Resistance unbalance, maximum				2 %					
Propagation Delay, minimum margin to limit				800 nsec/km					
Skew, maximum at 100MHz				200 nsec/km					

### Ordering Information

Cable Code	Variant	Colour RAL no.	Delivery length	Draka Part no.	Flame Test
UTP Flame ret. 4x2/0.5 Category 5e	PVC	Grey 7032	Box 305m	52004	IEC 60332-1
UTP Flame ret. 4x2/0.5 Category 5e	PVC	Grey 7047	Box 305m	52006	CM (UL 1666)
UTP Flame ret. 4x2/0.5 Category 5e	PVC	Grey 7047	Box 305m	52008	CMR (UL 1666)
UTP PE 4x2/0.5 Category 5e	PE	Black	Box 305m	52034	N.A.
UTP LSHF 4x2/0.5 Category 5e	LSHF	Grey 7035	Drum 1000m	52026	IEC 60332-1