



Draka Comteq

Generic Cabling FTP Cat 5E 125MHz

FTP (Foil screened Twisted Pair) for use as horizontal cable in generic cabling systems. The FTP cable has solid copper conductors insulated with PE. The screen is an overall Al-foil and an earth wire. The cable is supplied with PVC, PE, LSOH or LSFROH Jacket. All cables are approved in accordance with the most stringent test procedures. They are also 3P tested and ETL Verified in accordance with the following standards: ISO/IEC 11801, EIA/TIA 568B.2 and EN 50173
The LSOH version has tested to IEC-60332-1 and FRLSOH version to IEC-60332-3C standard

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	1.04 +/- 0.02	BLUE / White-Blue	6.00 +/- 0.20	38.66
4	LSOH			ORANGE / White-Orange	6.00 +/- 0.20	39.25
4	FRLSOH			GREEN / White-Green BROWN / White-Brown	7.00 +/- 0.20	42.50

Cable Properties

Bending Minimum bending radius installed	4 x D	Fire classification PVC LSOH FRLSOH	IEC 60332-1 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 Nominal 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	62.0	59.0
4.0 MHz	4.0	58.0	54.0	56.0	52.0	50.0	47.0
10.0 MHz	6.4	52.0	45.6	50.0	43.6	42.0	39.0
16.0 MHz	8.2	48.9	40.7	46.9	38.7	37.9	34.9
20.0 MHz	9.2	47.5	38.3	45.5	36.3	36.0	33.0
31.25 MHz	11.6	44.6	33.0	42.6	31.0	32.1	29.1
62.5 MHz	16.9	40.1	23.2	38.1	21.2	26.1	23.1
100 MHz	21.8	37.0	15.2	35.0	13.2	22.0	19.0
130 MHz	25.2	35.3	10.1	33.3	8.1	19.7	16.7

Characteristic impedance (1-130 MHz)	100 Ω ± 15 ohm	Return Loss (1-100MHz) min	-23 dB
Mean Characteristic impedance (1-130 MHz)	100 Ω ± 10 ohm		
DC-loop resistance	170 ohm/km	Mutual capacitance , nominal	52 pF/m
Resistance unbalance , maximum	2 %	Capacitance unbalance , maximum	300 pF/km
Propagation Delay , minimum margin to limit	800 nsec/km	Nominal velocity of propagation	0.69 c
Skew , maximum at 100MHz	200 nsec/km		

Ordering Information

Cable Code	Variant	Colour RAL no.	Delivery Length	Draka Part no.	Flame Test
FTP Flame ret. 4x2/0.51 Category 5e	PVC	Grey 7032	Box 305m	53025	IEC 60332-1
FTP PE 4x2/0.51 Category 5e	PE	Black	Drum 1000 m	53035	N.A.
FTP LSOH 4x2/0.51 Category 5e	LSOH	Orange/Grey 7035	Box 305m	53041	IEC 60332-1
FTP FRLSOH 4x2/0.51 Category 5e	FRLSOH		Drum 500m/1000m	53048	IEC 60332-3C

We reserve the right to alter this specification without notice.



Datacom Cable Technologies