



Generic Cabling

FTP Cat 5E 125MHz

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

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 (UV stabilised), LSHF or FRLSHF 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 LSHF version has tested to IEC-60332-1 and FRLSHF version to IEC-60332-3C standard

Cable Construction

Number of pairs	Sheath Material	Conductor dimension (mm)	Insulation diameter (mm)	Insulation Color	Cable diameter (mm)	Weight (kg/km)
4	PVC/PE			BLUE / White-Blue	6.00 +/- 0.20	38.66
4	LSHF	0.5	1.04 +/- 0.02	ORANGE / White-Orange	6.00 +/- 0.20	39.25
4	FRLSHF		PE	GREEN / White-Green BROWN / White-Brown	7.00 +/- 0.20	42.50

Cable Properties

Bending		Fire classification	
Minimum bending radius installed	4 x D	PVC	IEC 60332-1
Tensile strength		LSHF	IEC61034, IEC60754, IEC 60332-1
Maximum tensile load, installation	100 N	FRLSHF	IEC61034, IEC60754, IEC 60332-3C
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)	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					
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		52 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		0.69 c	

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 LSHF 4x2/0.51 Category 5e	LSHF			53041	IEC 60332-1
FTP FRLSHF 4x2/0.51 Category 5e	FRLSHF	Grey 7035	Box 305m Drum 1000m	53048	IEC 60332-3C