



Generic cabling FTP Cat.5E 125 MHz

4x2/0,5mm - 2x4x2/0,5mm
PVC / LSOH / LSFROH

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 or Halogen free outer sheath material. All cables are approved in accordance with the most stringent test procedures. They are also 3P-Verified in accordance with the following standards: EN 50173, prEN 50288-2-1, ISO/IEC 11801 and EIA/TIA 568A Adendum-5

Cable construction

Number of pairs	Sheath material	Conductor dimension (mm)	Insulation Diameter (mm)	Binder diameter (mm)	Cable diameter (mm)	Weight (kg/km)
4	PVC/LSOH/LSFROH	0,5	1,1 PE	5,0	6,1/6,2/6,2	39 / 38 / 42
2x4	PVC/LSOH/LSFROH	0,5	1,1 PE	5,0	6,1x12,8/6,2x13,0/6,2x13,0	79 / 76 / 84

Cable properties

Bending		Fire classification	
Minimum bending radius, installation/installed	8xD/4xD	PVC	IEC 60332-1
Tensile strength		LSOH	IEC 61034, IEC 60754, IEC 60332-1
Maximum tensile load, installation	100N	LSFROH	IEC 61034, IEC 60754, IEC 60332-3C
Maximum tensile load, installed	-	Heat release (4 pair)	
Temperatur window		PVC	430MJ/km
Operation	-20°C - +60°C	LSOH	649 MJ/km
Installation	0°C - +50°C	LSFROH	391 MJ/km

Electrical data at 20°C

Frequency	Attenuation, nom (dB/100m)	NEXT (dB)	ACR (dB)	Return Loss (dB)	PS NEXT (dB)	PS ACR (dB)	ELFEXT (dB)	PS ELFEXT (dB)
1 MHz	2,0	75	73	-	72	70	73	70
4 MHz	3,8	65	61	23,0	62	58	61	58
10 MHz	6,0	59	53	25,0	56	50	53	50
16 MHz	7,6	56	48	25,0	53	45	49	46
20 MHz	8,6	54	45	25,0	51	42	47	44
31,25 MHz	10,8	51	40	23,6	48	37	43	40
62,5 MHz	15,7	46	30	21,5	43	27	37	34
100 MHz	20,3	43	23	20,1	40	20	33	30
125 MHz	22,9	41	18	19,4	38	15	31	28
Characteristic impedance (4 MHz<f<100 MHz)				100±15 Ohm	Transfer impedance, IEC 96-1			
Characteristic impedance (100 MHz<f<250 MHz)					1	44 mohm/m		
Mean Characteristic impedance @100 MHz				100±5 Ohm	10	42 mohm/m		
DC-loop resistance				170 Ohm/km	Nominal velocity of propagation (NVP) 0,69 c			
Resistance unbalance, maximum				2 %	Mutual capacitance, nominal 52 pF/m			
Propagation Delay				800 nsec/km	Capasitance unbalance, maximum 300 pF/km			
Skew, maximum (100 MHz)				200 nsec/km				

Ordering information

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We reserve the right to alter this specification without notice.

Ordering information

Cable code	Variant	Colour RAL no.	Delivery length	Draka NK Part no.	
FTP Flame ret. 4x2/0,5 Category 5E	PVC	Grey 7035	E305 m	791831	
FTP LSOH 4x2/0,5 Category 5E	LSOH	Grey 7035	E305 m	791813	
FTP Flame ret. 4x2/0,5 Category 5E	PVC	Grey 7035	T500 m	791841	
FTP LSOH 4x2/0,5 Category 5E	LSOH	Grey 7035	T500 m	791811	
FTP LSFROH 4x2/0,5 Category 5E	LSFROH	Grey 7035	T500 m	791851	
FTP Flame ret. 2x4x2/0,5 Category 5E	PVC	Grey 7035	T500 m	791881	
FTP LSOH 2x4x2/0,5 Category 5E	LSOH	Grey 7035	T500 m	791871	
FTP LSFROH 2x4x2/0,5 Category 5E	LSFROH	Grey 7035	T500 m	791891	
FTP Flame ret. 4x2/0,5 Category 5E	PVC	Grey 7035	T1000 m	791846	

