

FXP5ESH

100 Ω Cable - F/UTP 4 pairs - Cat 5E - 100 MHz - LSZH



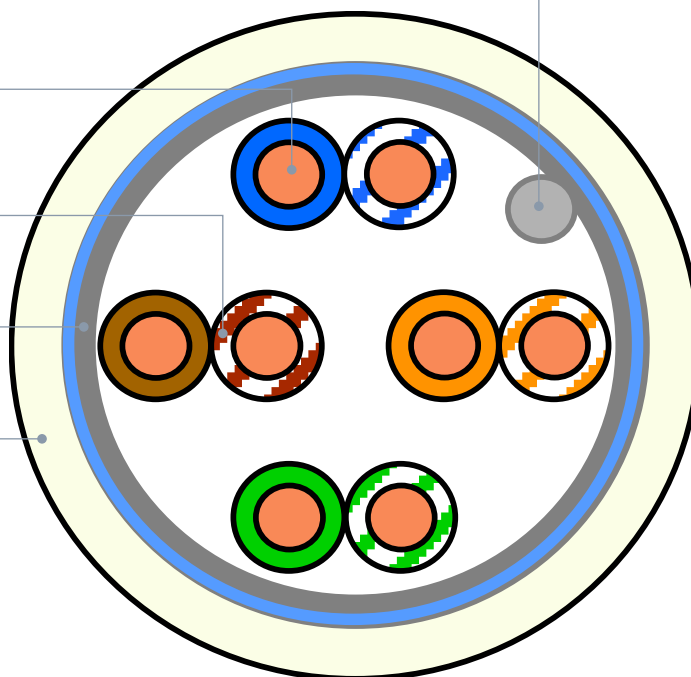
Mass drain:
Tinned copper single wire

Conductor:
Annealed single-strand copper wire AWG24/1

Insulator:
Polyethylene

Aarmor:
Aluminum/Polyester Strapping; Overlapping 110%

Outer sheath:
LSZH - white color RAL 9003



FT 4 06/06/2017 EN

PRODUCT INFORMATION

APPLICATION

This shielded F/UTP (Foiled twisted pairs) cable, used in a horizontal or vertical configuration (Backbone), forms the basis of a high-speed V.D.I (Voice-Data-Image) network.

Its shielding allows it to be used in disturbed environments and ensures proper operation up to 100 Mhz. Its internal structure provides it with significant margins with all current standards.

This cable is used in the transmission of digital and analog signals for voice, data transmission, and video links.

This cable supports all applications of the current standard networks IEEE802.3, IEEE802.5 and IEEE802.12. (Ethernet, Token Ring, TP-PMD). It is also capable of supporting ATM applications at 622 Mbps.

ELECTRICAL PROPERTIES

Linear electrical resistance:	$\leq 95 \Omega / \text{Km}$
Mutual capacity	50 pF / m
Characteristic impedance:	100 Ω
Propagation speed:	66 %

STANDARDS

CABLE SYSTEM	IEC 61156-5 ISO 11801 Edition 2 – CLASS D
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CHARACTERISTICS

	Fire resistance: IEC 60332-1 / NF C32-070 C2 EN 50575 :2014 + A1 :2016 Dca
	LSZH : IEC 61034 / IEC 60754-1 & -2
	Temperature holding: - 20° C / + 70° C
	Minimum radius of curvature: 8 x cable diameter
	In compliance with the RoHS directive

TRANSMISSION PERFORMANCES @20°C												
Fréquences (MHZ)	ATTENUATION (dB/100m)		NEXT (dB)		PS NEXT (dB)		ELFLEX (dB)		PSELFLEX (dB)		RETURN LOSS (dB)	
	Standard	Typical value	Standard	Typical value	Standard	Typical value	Standard	Typical value	Standard	Typical value	Standard	Typical value
4	4.08	4.0	56.3	62	53.3	59	52	63	49	60	23	37
10	6.5	6.2	50.3	60	47.3	57	44	60	41	57	25	38
16	8.3	8.1	47.2	56	44.2	53	40	57	37	54	25	38
25	10.4	10.2	44.3	54	41.3	51	36	53	33	50	24.3	75
31.25	11.7	11.5	42.9	50	39.9	47	34.1	48	31.1	45	23.6	35
62.5	17.0	16.8	38.4	47	35.4	43	28.1	39	25.1	36	21.5	34
100	22.0	21.7	35.3	40	32.3	37	24.0	35	21.0	32	20.1	32

(*) Standard: Values following IEC 61156-5

ARTICLE DATA					
	Pairs	AWG	Øext (mm)		
F4P5ESH	4	24/1	5.7	38	T500 m
F4P5ESHB	4	24/1	5.7	38	Box de 305m
F8P5ESH	2x4	24/1	5.7 × 11.6	76	T500 m