

FXP6ASH

100 Ω Cable - F/UTP 4 pairs - Cat 6A - 500 MHz - LSZH



Conductor:
Annealed single strand copper AWG23/1

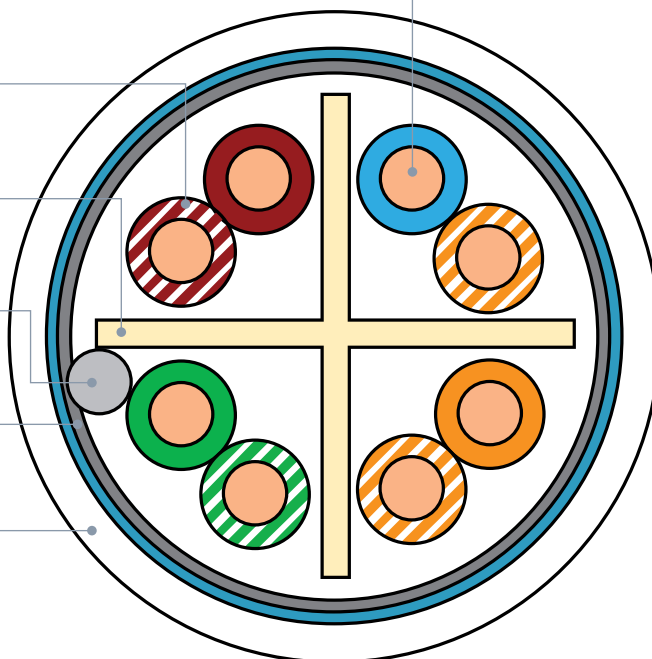
Insulator:
Polyethylene

Central element:
White or transparent thermoplastic cross

Mass drainage:
Tinned copper single wire

Aarmor:
Aluminum/polyester strapping; coverage 110%

Outer sheath:
LSZH - white color RAL 9003



FT 313/12/2017 EN

PRODUCT INFORMATION

APPLICATION

This shielded F/UTP (Foiled/Unfoiled twisted pairs) cable, used in a horizontal or vertical (Rocade) configuration, is the foundation of a high-speed V.D.I (Voice-Data-Image) network and benefits from electromagnetic compatibility immunity. Its shielding allows for use in noisy environments and ensures smooth operation up to 500 MHz. Its internal structure provides ample margins with all current standards. This cable is used in the transmission of digital and analog signals for voice, data transmission, and video links.

SUPPORTED NETWORK APPLICATIONS

- ISDN - RNIS
- TOKEN RING 4/16 Mbits
- 100 VG-AnyLAN
- TP-PMD/TP-DDI
- ATM 155, 622 Mbits/s et 1,2Gbits
- ETHERNET 10 Base T
- ETHERNET 100 Base Tx, 100 Base T4
- ETHERNET 1000 Base T - GIGABIT Ethernet
- IEEE 802.3 af - IEEE 802.3 at - PoE (Power Over Ethernet) et future PoE+
- IEEE 802.3 an -10 GIGABIT ETHERNET

STANDARDS

CABLE
SYSTEM

IEC 61156-5 Cat 6a
ISO 11801 Edition 2 - CLASS Ea

ELECTRICAL PROPERTIES

Electrical resistance linear:	$\leq 95 \Omega / \text{Km}$
Mutual capacity	45 pF / m
Characteristic impedance:	100 Ω
Propagation speed:	79 %

FEATURES



Fire resistance:
IEC 60332-1 / NF C32-070 C2
EN 50575 :2014 + A1 :2016 Dca



Low Smoke Zero Halogen:
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

Freq (MHZ)	ATTENUATION (dB/100m)		NEXT (dB)		PS NEXT (dB)		ELFLEX (dB/100m)		PSELFLEX (dB/100m)		RETURN LOSS (dB)	
	(*) Standard	IDC	Standard	IDC	Standard	IDC	Standard	IDC	Standard	IDC	Standard	IDC
4	3.8	3.7	66.3	67	63.3	64	55.9	66	52.9	63	23.0	25
10	5.9	5.8	60.3	62	57.3	59	48.0	63	45.0	60	25.0	27
16	7.5	7.3	57.2	59	54.2	56	43.9	62	40.9	59	25.0	27
25	9.4	9.2	54.3	56	51.3	53	40.0	57	37.0	54	24.3	27
31.25	10.5	10.0	52.9	55	49.9	52	37.9	52	35.1	49	23.6	25
100	19.1	18.8	45.3	47	42.3	44	28.0	44	25.0	41	20.1	22
200	27.6	27.0	40.8	43	37.8	40	22.0	35	19.0	32	18.0	20
250	31.1	30.0	39.3	42	36.3	39	20.0	29	17.0	26	17.3	19
300	34.3	34.0	38.1	40	35.1	37	18.4	27	15.4	24	17.3	19
400	40.0	39.0	36.3	38	33.3	35	16.0	26	13.0	23	17.3	18
500	45.3	44.8	34.8	37	31.8	34	14.0	26	11.0	23	17.3	18

(*) Standard: Values according to IEC 61156-5

ARTICLE DATA

	Pairs	AWG	Øext (mm)		
F4P6ASH	4	23/1	7.2	43	T500 m
F8P6ASH	2×4	23/1	7.2 × 14.5	102	T500 m