

Cat.6A F/FTP PVC, PE, LSZH 4x2x23 AWG



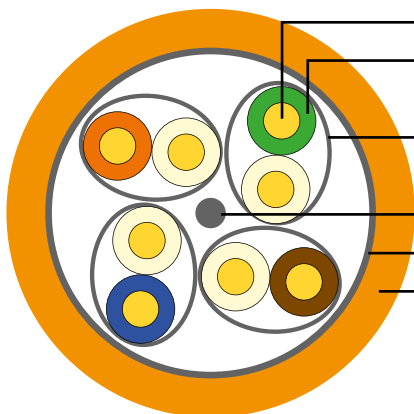
Application

Multicore and symmetrical twisted pair cable for digital communications:

- Type **Cat. 6A F/FTP 4x2x23 AWG** is designed for structured cabling networks with single laying inside buildings, constructions and equipment. This cable type can operate at frequencies up to 500 MHz, 10 Gbit/s 10 Gigabit Ethernet in conditions of increased electromagnetic action.
- Type **Cat. 6A F/FTP 4x2x23 AWG LSZH** is designed for structured cabling networks with single laying and laying in bundles inside buildings, constructions and equipment. This cable type can operate at frequencies up to 500 MHz, 10 Gbit/s 10 Gigabit Ethernet in conditions of increased electromagnetic action and where low smoke emission is required.
- Type **Cat. 6A F/FTP 4x2x23 AWG PE** is designed for structured cabling networks with external laying along the walls of buildings, constructions, in mines and collectors. This cable type can operate at frequencies up to 500 MHz, 10 Gbit/s 10 Gigabit Ethernet in conditions of increased electromagnetic action.



Cable structure



- **Conductor:** Copper wire 23 AWG
- **Insulation:** Physical foam PE in compliance with TIA 568 insulation color coding
- **Screen (Double):** Al-PET tape min 100% coverage
- A **tinned copper drain wire** Ø 26 AWG
- **Screen:** Al-PET tape min 100% coverage
- **Sheath:**
LSZH/LS0H RAL 2003 Orange
PVC RAL 7001 Grey
PE RAL 9011 Black

Standards

ISO/IEC 11801-1, IEC 61156-5
EN 50288-10-1
ANSI EIA/TIA 568.2-D

Specifications

Temperature range: fixed.....	-20°C...+60°C
flexing.....	0°C...+50°C
Bending radius: fixed.....	min. 4 x D
flexing.....	min. 8 x D
Tensile strength.....	max. 100 N
Crushing strength.....	min. 1000 N/10 cm
Impact strength.....	min. 10 impacts
Conductor resistance.....	max. 85 Ω/km
Resistance imbalance.....	max. 2%
Insulation resistance.....	min. 5000 MΩ x km
Capacitance.....	max. 56 pF/m
Capacity imbalance.....	max. 1600 pF/km
Velocity of propagation.....	78-80%
Propagation delay.....	max. 537 ns/100 m
Signal delay.....	max. 25 ns/100 m
Test voltage.....	1000 V
Operating voltage.....	max. 72 V
TCL min. «Level 2»	
Coupling attenuation «Type II»	
Transfer impedance «Class 2»	

Fre- quency, MHz	Attenuation [dB/100 m]	NEXT [dB]	PS-NEXT [dB]	ACR [dB/100 m]	PS-ACR [dB/100 m]	ACR-F [dB/100 m]	PS-ACR-F [dB/100 m]	RL [dB]
	max.	min.	min.	min.	min.	min.	min.	min.
1*	2,1	75,3	72,3	73,2	70,2	68	65	20
10	5,9	60,3	57,3	54,4	51,4	48	45	25
16	7,5	57,2	54,2	49,7	46,7	43,9	40,9	25
20	8,4	55,8	52,8	47,4	44,4	42,0	39,0	25
100	19,1	45,3	42,3	26,2	23,2	28,0	25,0	20,1
250	31,1	39,3	36,3	8,2	5,2	20,0	17,0	17,3
400	40,1	36,3	33,3	-3,8	-6,8	16,0	13,0	17,3
500	45,3	34,8	31,8	-10,4	-13,4	14,0	11,0	17,3

*Values up to 4 MHz are for general information

Cable structure	Diameter, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m	CPR
Cat. 6A F/FTP 4x2x23 AWG	7,9	58	Grey	500/1000	Eca
Cat. 6A F/FTP 4x2x23 AWG LSZH	7,9	61	Orange	500/1000	Dca
Cat. 6A F/FTP 4x2x23 AWG PE	7,9	51	Black	500/1000	Fca