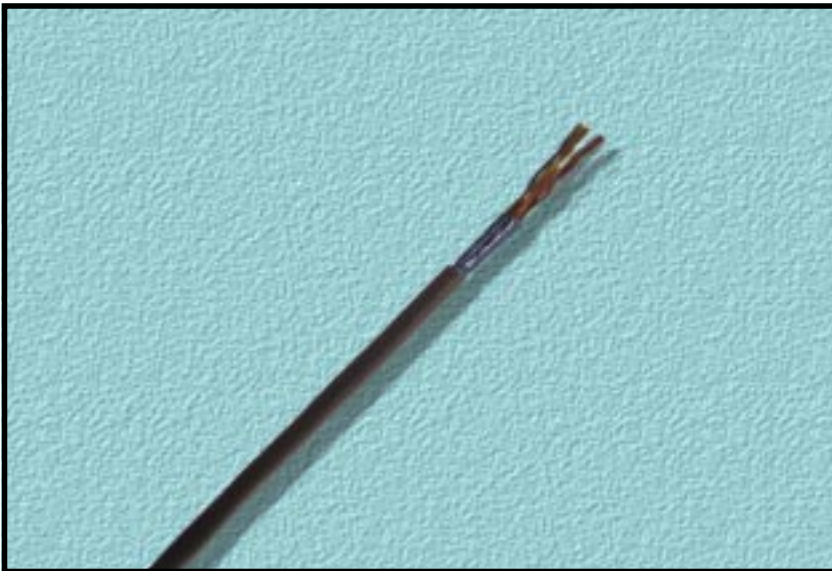


Data Cable

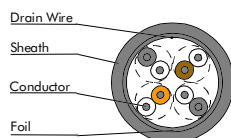
FTP Flex 4 Pair 100MHz Category 5 Flex Cable



Alcatel's Category 5 shielded FTP 4 Pair cables are designed specifically for the patching section of a shielded Structured Cabling network. The design enables the cable to be flexed repeatedly over its lifetime due to the conductors and sheathing materials used. This high performance Category 5 cable has a specific screen design to give improved EMC performance. It is ideal for installations that may be subject to higher than normal external electromagnetic noise.

Features

- Stranded conductors
- Flexible aluminium tape screen
- Flame retardant PVC or LSZH options
- Highly flexible construction
- Consistent and guaranteed quality at all times
- Independently performance verified
- Supports all current and proposed Class D applications



Description

7/0.16mm stranded plain copper wire insulated with polythethylene with a diameter of less than 1.0mm. Two cores twisted together to form a pair and four such pairs laid up to form the basic unit. Shielded with an overall aluminium foil with a 7/01.6mm tinned copper drain wire. This unit is sheathed in either PVC or LSZH (Low Smoke Zero Halogen) and is available in a variety of colours.

Standards

International ISO/IEC 11801,
European EN 50173, EN 50169
American TIA/EIA 568A

Applications

Alcatel Data Cable's FTP Flex range is intended for high speed data applications up to 100 MHz including:

ATM 155Mbit/s
FDDI/CDDI 100Mbit/s
Ethernet 100BaseTX, 100BaseVG,
Token Ring, 10BaseT

Benefits

- Cable designed to give performance margins beyond Category 5
- Reduced interference problems in areas of high EMI and RFI
- LSZH version for safety critical environments
- Cable design gives highly flexible lifetime use
- Colour options for identification of applications at patch panel or workstation
- 15 Year OASIS warranty compliant product for peace of mind



Technical data - physical

	4 Pair Patch
Conductor diameter (mm)	7 x 0.16
Insulation diameter (mm)	1.00
Cable diameter (mm)	5.60
Nominal cable weight (Kg/Km)	31
Copper weight (Kg/Km)	11
Max. installation tension (N)	60
Min. bend radius - operation (mm)	20
Min. bend radius - installation (mm)	40
Fire behaviour IEC 332.1	Yes
Fire load (MJ/Km)	500

Colour code

Pair 1 White/blue ring	blue
Pair 2 White/orange ring	orange
Pair 3 White/green ring	green
Pair 4 White/brown ring	brown

(as per IEC 708-1)

Technical data - electrical

Frequency MHz	Attenuation		NEXT		ACR	
	Standard	Typical	Standard	Typical	Standard	Typical
1	3.2	3.0	62	68	Not applicable	Not applicable
4	6.5	6.0	53	59		
10	9.9	8.9	47	53		
16	12.3	11.2	44	50		
20	13.8	12.7	42	48		
31.25	17.7	16.1	40	46		
62.5	25.7	23.1	35	41		
100	33	29.5	32	38		

Mutual Capacitance	56 nF/Km
DC resistance	144 Ω/Km
Skew	0.15 ns/m
Pair to Ground unbalance	max. 1600 pF/Km
Velocity of Propagation	68%
Transfer Impedance at 10 MHz	50 mΩ /m
Coupling Attenuation at 30 MHz	60 dB
Characteristic Impedance	100 +/- 15 Ω Typical +/- 10 Ω

Part numbers

No. Pairs	Part No	Sheath	Colour	Packaging
4	399-2201-AG5 399-2201-AR5 399-2201-AB5 399-2201-AV5 399-2201-AJ5	PVC	Grey Red Blue Green Yellow	500m reel
Also available in 1000m reels and LSZH versions				

Temperature rating

Installation	0 to +50°C
Operation	-20 to +60°C

Please contact Alcatel Data Cable for:

- FTP product pack
- Other cable types:
UTP, S-FTP, STP, Fibre

