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## Ethernet Patch Cord

### S/FTP Cat 6A LSFH, RJ45 connectors

Preconnected Ethernet patch cord with RJ45 connector at each end. It is made of a Category-6A data cable, S/FTP type (foiled pairs and foiled cable), with a flexible copper inner conductor 26 AWG and outer sheath made of grey LSFH (Low Smoke Free of Halogen).

<b>Ref.209102</b>	1 m (Individual bag)	
	<b>Art.Nr</b>	PK6AL1G-T
	<b>EAN13</b>	8424450222119
<b>Ref.209103</b>	2 m (Individual bag)	
	<b>Art.Nr</b>	PK6AL2G-T
	<b>EAN13</b>	8424450222126
<b>Ref.209104</b>	3 m (Individual bag)	
	<b>Art.Nr</b>	PK6AL3G-T
	<b>EAN13</b>	8424450222133
<b>Ref.209105</b>	5 m (Individual bag)	
	<b>Art.Nr</b>	PK6AL5G-T
	<b>EAN13</b>	8424450222140
<b>Ref.209101</b>	0.5 m (Individual bag)	
	<b>Art.Nr</b>	PK6AL05G-T
	<b>EAN13</b>	8424450238233
<b>Ref.209112</b>	1 m (10-unit box)	
	<b>Art.Nr</b>	PK6AL1G
	<b>EAN13</b>	8424450250846
<b>Ref.209113</b>	2 m (10-unit box)	
	<b>Art.Nr</b>	PK6AL2G
	<b>EAN13</b>	8424450250853
<b>Ref.209114</b>	3 m (10-unit box)	
	<b>Art.Nr</b>	PK6AL3G
	<b>EAN13</b>	8424450250860
<b>Ref.209115</b>	5 m (10-unit box)	
	<b>Art.Nr</b>	PK6AL5G
	<b>EAN13</b>	8424450250877
<b>Ref.209111</b>	0.5 m (10-unit box)	

Art.Nr	PK6AL05G
EAN13	8424450250839

## Highlights

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- Category-6A data cable
- S/FTP Foiled FTP Cable (foiled pairs)
- Flexible copper inner conductor (26 AWG)
- Compatible with PoE/PoE+ (Power over Ethernet) technology, allowing the cable to power network devices

## Main features

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- PE (Polyethylene) copper conductor insulation, 1.1 mm diameter
- Aluminium+polyester shielding foil
- Aluminium outer shielding braid
- Grey LSFH (Low Smoke Free Of Halogen) outer sheath, 0.59 mm thick and 6.2 mm diameter
- 79% nominal speed
- RJ45 connectors with gold plated connector ends with shell nickel plated

## Discover

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### Category 6A

Data cable category Cat 6A (augmented) has its origins on Cat 6 and it is backwards compatible, with the standards of the inferior categories (Cat 6/5e and Cat 3). Category 6A evolves over category 6, allowing to achieve transmission frequencies of up to 500 MHz (in each pair) and 10 Gbps of throughput. It includes characteristics and specifications to avoid crosstalk and noise. This type of data cable can be used in 10BASE-T, 100BASE-T, 1000BASE-T and 10GBASE-T compliant systems.

Our category 6A cables are characterized for:

- Comply with TIA/EIA-568B.2-1
- Transfer rate up to 10Gbps
- Frequency range of up to 650 MHz (higher than the 500 MHz specified by the standard)
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 9.38 ohms/100m

The RJ45 is a connector commonly used in structured cable networks. With up to 8 connection pins, it is adequate both for data networks (8 pairs), as well as telephone networks (2 pairs). It is usually used in networks compliant with standards TIA/EIA-568-B.

## Technical specifications

Type		S/FTP															
Categorie		Cat 6A															
Transmission bandwidth		650MHz															
Transfer rate		10Gbps															
Conductor Diameter	mm	0.16															
Conductor Material		Flexible copper															
Conductor type AWG		26															
Conductor isolation Diameter	mm	1.1															
Conductor isolation Material		Polyethylene															
Crucifix filler		No															
Shielding foil of pairs		Aluminium + Polyester															
Outer shielding braid		Aluminium															
Outer sheath Diameter	mm	6.2															
Outer sheath Material		LSFH															
Outer sheath Thickness	mm	0.59															
Rip cord		No															
Data connector type		RJ45															
Spark Test	Vac	3000															
Nominal impedance	$\Omega$	100															
Conductor resistance	$\Omega$ /km	< 100															
Nominal speed	%	79															
Working voltage	V	300															
Operating temperature	$^{\circ}$ C	-25 ... 70															
Frequencies		1 MHz	4 MHz	8 MHz	10 MHz	16 MHz	20 MHz	25 MHz	31.25 MHz	62.5 MHz	100 MHz	200 MHz	250 MHz	500 MHz			
NEXT (typ.)	dB/100m		65	63	58.2	56.6	53.2	51.6	50	48.4	43.4	39.9	34.8	33.1	27.9		
PS NEXT (typ.)	dB/100m		62	60.5	55.6	54	50.6	49	47.3	45.7	40.6	37.1	31.9	30.2	24.8		
ACR-F (typ.)	dB/100m		63.3	51.2	45.2	43.3	39.2	37.2	35.3	33.4	27.3	23.3	17.2	15.3	9.3		
PS ACR-F (typ.)	dB/100m		60.3	48.2	42.2	40.3	36.2	34.2	32.3	30.4	24.3	20.3	14.2	12.3	6.3		
Return losses	dB				19	19	19	19	18	17.5	17	16.5	14	12	9	8	6