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Ethernet Patch Cord

U/UTP Cat 6 PVC, RJ45 connectors

Preconnected Ethernet patch cord with RJ45 connector at each end. It is made of a Category-6 data cable, U/UTP type, with a flexible copper inner conductor 24 AWG and outer sheath made of white PVC.

Ref.209001	0.5 m (Individual bag)
Art.Nr	PK6P05W-T
EAN13	8424450221921
Ref.209002	1 m (Individual bag)
Art.Nr	PK6P1W-T
EAN13	8424450221938
Ref.209003	2 m (Individual bag)
Art.Nr	PK6P2W-T
EAN13	8424450221945
Ref.209004	3 m (Individual bag)
Art.Nr	PK6P3W-T
EAN13	8424450221952
Ref.209005	5 m (Individual bag)
Art.Nr	PK6P5W-T
EAN13	8424450221969
Ref.209011	0.5 m (10-unit box)
Art.Nr	PK6P05W
EAN13	8424450221976
Ref.209012	1 m (10-unit box)
Art.Nr	PK6P1W
EAN13	8424450221983
Ref.209013	2 m (10-unit box)
Art.Nr	PK6P2W
EAN13	8424450221990
Ref.209014	3 m (10-unit box)
Art.Nr	PK6P3W
EAN13	8424450222003
Ref.209015	5 m (10-unit box)

	Art.Nr	PK6P5W
	EAN13	8424450222010
Ref.209016	7 m (10-unit box)	
	Art.Nr	PK6P7W
	EAN13	8424450222027
Ref.209017	10 m (10-unit box)	
	Art.Nr	PK6P10W
	EAN13	8424450222034
Ref.209018	20 m (10-unit box)	
	Art.Nr	PK6P20W
	EAN13	8424450222041

Highlights

- Category-6 data cable
- U/UTP Unfoiled UTP Cable
- Flexible copper inner conductor (24AWG)
- Compatible with PoE/PoE+ (Power over Ethernet) technology, allowing the cable to power network devices

Main features

- PE (Polyethylene) copper conductor insulation, 0.96 mm diameter
- White PVC (polyvinyl chloride) outer sheath, 0.62 mm thick and 5.7 mm diameter
- 72% nominal speed
- RJ45 connectors with gold plated connector ends

Discover

Category 6

Data cable category Cat 6 complies with the standard for Gigabit Ethernet and it is backwards compatible, with the standards of the inferior categories (Cat 5/5e and Cat 3). Category 6 evolves over category 5E, allowing to achieve transmission frequencies of up to 250 MHz (in each pair) and 1 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 and 1000BASE-T (Gigabit Ethernet) compliant systems.

They are characterized for:

- Comply with TIA/EIA-568B.2-1
- Crucifix type padding
- Transfer rate up to 1Gbps
- Frequency range of up to 250 MHz
- Includes rip cord to make it easier to strip the cable
- Nominal impedance of 100 ohms
- Maximum resistance per conductor below 117 ohms/Km

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		U/UTP														
Categorie		Cat 6														
Transmission bandwidth		250MHz														
Transfer rate		1Gbps														
Conductor Diameter	mm	0.18														
Conductor Material		Flexible copper														
Conductor type AWG		24														
Conductor isolation Diameter	mm	0.96														
Conductor isolation Material		Polyethylene														
Crucifix filter		Yes														
Outer sheath Diameter	mm	5.7														
Outer sheath Material		PVC														
Outer sheath Thickness	mm	0.62														
Rip cord		No														
Data connector type		RJ45														
Spark Test	Vac	3000														
Nominal impedance	Ω	100														
Conductor resistance	Ω /km	< 117														
Nominal speed	%	72														
Working voltage	V	300														
Operating temperature	$^{\circ}$ C	-30 ... 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			
NEXT	dB/100m			65	63	58.2	56.6	53.2	51.6	50	48.4	43.4	39.9	34.8	33.1	
PS-NEXT	dB/100m			62	60.5	55.6	54	50.6	49	47.3	45.7	40.6	37.1	31.9	30.2	
ELFEXT	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	
PS-ELFEXT	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	
Return losses	dB				19	19	19	19	18	17.5	17	16.5	14	12	9	8