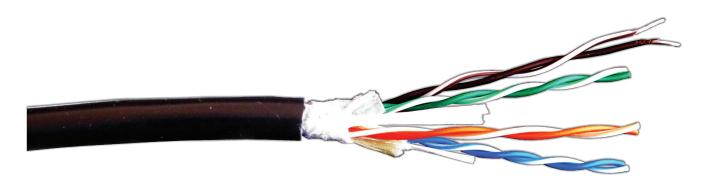


The World's Most Durable Ethernet Cables



Ethernet patch cables designed to withstand the extreme conditions of the real world. Available as fully assembled patch cables, in standard and custom lengths, with your choice of three heavy-duty RJ-45 connector formats. Panel-mount connectors also available for a complete OEM Ethernet wiring solution.



CAT5e ULTRA-PATCH U/UTP **ETHERNET CABLE** PCCAT5EUTPP

General Information

A 4 pair, 24 AWG, 100 Ohm U/UTP round cable, designed to the IEC 61156-6 and TIA/EIA 568-B.2 CAT5 requirements. The cable contains 4 twisted pairs, cabled, assembled with kevlar reinforcement strands, jacketed in Black UV resistant Polyurethane.

General Specifications					
Part Number	PCCAT5EUTPP				
Conductors	24 AWG [0.25 mm²] tinned copper, 7x0.20 mm				
Insulation	Solid PO, Nom. Nom. Dia. 0.038" [0.97 mm]				
Colour Code	Colour coded 568-B				
Assembly	Pairs cabled with Kevlar strength members and separation tape wrapped.				
Shields	None				
Jacket	Black, special PUR compound.				
Marking	ProPlex PCAT5EUTPP 24AWG UTP 100MHZ data cable CAT5E verified				
Weight	30 lbs./mft [44 Kg/Km]				
Outside Diameter	0.244" [6.2 mm] nom. +/-0.012" [0.3 mm]				
Minimum Bend Radius	45 mm				
Tensile Strength	270 kg				
Operational Pulling Tension	20 kg max. (@0.3% Elongation)				
Temperature Rating	Installation: -5° to +60° C Operational: -25° to +70°C				
Compliance	RoHS				

Electrical Specifications					
Voltage Rating	230 VMS				
Velocity of Propagation	68% nom.				
Impedance	100 +/- 15 Ohm 1-100 MHz				
Propogation Delay	570ns/100m max @ 1 MHz 545ns/100m max @ 10 MHz 537ns/100m max @ 100 MHz				
Delay Skew	35 ns/100 m max @ 1-100 MHz				
Dielectric Strength	VAC/1min - 700V/min				
Capacitance	pair 46 pF/m				
Resistance Unbalance	2% max @ 20 deg. C				
Capacitance Unbalance	3.2 pF/m max. @1KHz (wire to ground)				
Insulation Resistance	5000 M Ohm / Km Min.				
Return Loss (100MHz)	20 db/100 m min. @ 1 MHz 25 db/100 m min. @ 16 MHz 20.7 db/100 m min. @ 62.5 MHz 19 db/100 m min. @ 100 MHz				
DC Resistance	96 Ohm/Km @ 20 deg. C				
PoE Compatibility	Yes				

Reeling Capability

In the core level, under the shields, are 4 conductor pairs and 6 strength members, 3 white and 3 yellow. Two central strength members perform a "tension relief" function. The other 4 are twisted around the pairs, each pair is wrapped in a strength member to perform a "pair structure holding" function. The reason for two types of strength members is that each one has a different prolongation constant - one positive, the other negative - so on average the length of the strength members remains constant and equal to the wire length.

To install on a reel, please use the following guidelines:

- · Minimum reel core diameter is 10 cm.
- Minimum tension to be used during reeling and unreeling process.
- Terminate the cable with plugs before reeling is initiated.
- Cable length per reel is 90 metres or less.

Transmission Performance								
	1 MHz	4 MHz	10 MHz	16 MHz	20 MHz	31.25 MHz	62.5 MHz	100 MHz
Attenuation db/100m nom.	2.5	4.9	7.8	9.9	11.1	14.1	20.4	26.4
N.E.X.T (Near-End Crosstalk Loss) db min.	65	56	50	47	46	43	38	35

ProPlex CAT5e Ethernet cables meet attenuation specs up to 85m (275 ft); meets all other performance specs up to 100m (328 ft)

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CAT5e ULTRA-PATCH U/UTP **ETHERNET CABLE** PCCAT5EUTPP

PUR Jacket Properties

Jacket Compound Specification

Halogen Free Flame Retardant Polyetherbased Polyurethane, Glossy finish. Excellent Hydrolysis resistance. High microbial resistance. UV resistant. High flexibility.

Jacket Testing Results						
Test	Test Method	Result				
Density	DIN 53479	1.15g/cubic cm				
Tensile strength	DIN 53504	40 nom. N/sqmm				
Tensile strength after 42 days, H2O 80°C	DIN 53504	30 N/sqmm				
Ultimate elongation	DIN 53504	550 nom. % min.				
20% modulus	DIN 53504	3.2 N/sqmm				
100% modulus	DIN 53504	5.5 N/sqmm				
300% modulus	DIN 53504	12 N/sqmm				
Tear strength	DIN 53515	60 N/mm				
Hardness shore A	DIN 53505	87				
Hardness shore D	DIN 53505	36				
Melt index- MVR	ISO 1133	30-60 cubic cm/10 min				
Brittle point	DIN 53513	-45°C				
Abrasion Loss	DIN 53516	40 cubic mm				
Compression set (23°C) 70h	DIN 53517	30%				
Compression set (70°C) 24h	DIN 53517	50%				

Inorganic Substances

Temperature

Room Temp

40°C

Concentration

cold saturated

cold saturated

cold saturated

cold saturated

cold saturated

cold saturated

nil to slight

no resistance

nil to slight nil to slight

nil to slight

nil to slight

nil to slight

nil to slight

nil to slight

nil to slight

nil to slight

slight nil to slight

poor

nil

nil

20%

10%

100%

20%

3%

			PUR Jacket				
Organic Substances							
Medium	Temperature	Concentration	Reaction				
Acetic Acid	Room Temp	20%	slight				
Acetone	Room Temp	40%	poor				
Astm Fuel A	Room Temp	4%	nil				
Astm Fuel B	Room Temp	10%	nil				
Astm Fuel C	Room Temp	18%	nil to slight				
Astm Oil 1	80°C		nil				
Astm Oil 2	80°C	3%	nil				
Astm Oil 3	80°C	6%	nil				
Benzene	Room Temp		poor				
Butanol	Room Temp		poor				
Butyl Acetate	Room Temp	40%	poor				
Citric Acid	Room Temp		slight				
Cutting Oil	Room Temp		nil to slight				
Cyclohexanol	Room Temp	5%	slight				
Dibutylphthalate	Room Temp	40%	slight				
Diesel Oil	Room Temp		nil to slight				
Diesel Oil	Room Temp	5%	nil				
Diethylether	Room Temp		nil to slight				
Diethylprestone	Room Temp		nil to slight				
Dimethylformamide	Room Temp		soluble				
Ethyl Alcohol	Room Temp	100%	slight				
Ethylacetate	Room Temp	40%	poor				
Ethylether	Room Temp		slight				
Glycerin	Room Temp		nil				
Glycol	Room Temp	2%	nil				
Glysantin / Water 1:1	Room Temp		slight				
Glysantin / Water 1:1	80°C		slight				
Hydraulic Oil	Room Temp		slight				
Isopropanol	Room Temp	12%	slight				
Isopropyl Alcohol	Room Temp	100%	slight				
Kerosene	Room Temp	3%	nil				
Machine Oil	Room Temp		nil to slight				
Methanol	Room Temp	10%	slight				
Methyl Alcohol	Room Temp	100%	slight				
Methylen Chloride	Room Temp		no resistance				
Methylethylketone	Room Temp	45%	poor				
Mineral Oil	80°C		nil				
Olive Oil	Room Temp		nil				
Paraffin Oil	Room Temp		nil to slight				
Siccinic Acid, Aqu.	Room Temp	cold saturated	nil to slight				
Vegetable Oil And Fats	Room Temp		nil				

iethylether Room Temp nil to slight Nickel Salts, Aqu. Room Temp cold saturated nil to slight imethylformamide Room Temp soluble Nitric Acid Room Temp 20% no resistance thyl Alcohol Room Temp 40% poor Phosphoric Acid Room Temp Slight Potassium Carbonate, Aqu. (Potash) Room Temp 10% slight Potassium Dichromate, Aqu. Room Temp 10% slight Potassium Nitrate, Aqu. Room Temp 10% slight Potassium Sulphate, Aqu. Room Temp 10% slight Potassium Sulphate, Aqu. Room Temp 10% slight Potassium Sulphate, Aqu. Room Temp 10% slight Sodium Bicarbonate, Aqu. Room Temp 10% slight Sodium Bicarbonate, Aqu. Room Temp 10% slight Sodium Chloride, Aqu. Room Temp 10% slight Sodium Chloride, Aqu. Room Temp 10% slight Sodium Hydroxide Solution, Conc. Room Temp 10% slight Sodium Potassium Potassium Potassium Room Temp 10% slight Sodium Hydroxide Solution, Conc. Room Temp 10% slight Sodium Hydroxide Solution N Room Temp 100% slight Sodium Hydroxide Solution N Room Temp 10% slight Sulphur Dioxide Room Temp 100% slight Sulphur Room Temp 100% sli	iesel Oil	Room Temp	5%	nil	Mercury	Room Temp	100%	nil to slight
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Water 80°C nil to slight	egetable Oil And Fats	Room Temp		nil	Water	Room Temp		nil
	ey:				Water	80°C		nil to slight

Chemical Resistance Chart

Aluminium Chloride, Aqu.

Medium

Aniline

Acetic Acid

Acetic Acid 3N

Ammonia, Aqu.

Calcium Chloride

Chromium Salts, Aqu.

Fe Chloride, Aqu. 5%

Hydrochloric Acid 20%

Magnesium Salts, Aqu.

Copper Salts, Aqu.

Hydrogen Peroxide

Hydrogen Sulphide

Calcium Nitrate

Barium Salts Boric Acid

Nil: Resistance over a prolonged period.

Nil to slight: After a certain time appreciable differences are noticeable.

Slight: Conditionally resistant.

Poor: Short term contact possible under certain conditions.

No resistance: Pronounced attack



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