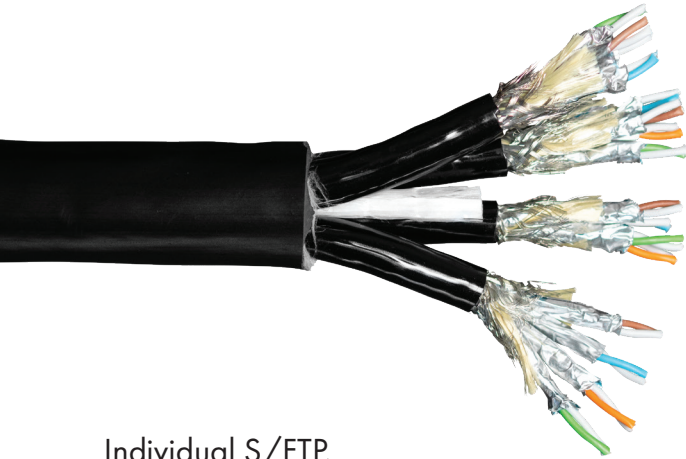


Flexible, portable CAT5e Snake Cables designed for the harshest conditions.



Individual S/FTP,
ISO/IEC11801 compliant,
100 Ohm, 24 AWG, CAT5e
cables with PU jackets.



- Manufactured with TMB's "ruggedized" technology, evolving from the rigors of Rock & Roll concert touring since 1983.
- Endures constant hand-coiling and twisting, all weather conditions indoors and outdoors, and mechanical abuse of all kinds.
- Each channel (or "universe") can also be wired for DMX or Com
- Custom snakes with a variety of connectors in any configuration.
Made to order - Rush Service Normal.

RoHS
Compliant

Overall Assembly Specifications

Part Number	PCCAT5ETU4X	
Overall Jacket	Material	UV resistant, flexible PVC compound
	Colour	Black
	Marking	PROPLEX ULTRA 4x CAT5E SNAKE S/FTP ETHERNET PATCH CABLE
	Overall Diameter	22 mm +/- 0.5 mm
Weight	375 kg/km nom.	
Bending Radius	250 mm Min. operational	
Working Temperature	-40 °C to +70 °C	
Tensile Force	150 N Max.	
Typical operational installation channel length:	Up to 75 m (20 °C)	
Flame test	IEC 60332.1	
Environmental	per IEC 61156-6 and ISO/IEC 11801	
RoHS compliance	RoHS-2 2015/863/EU	

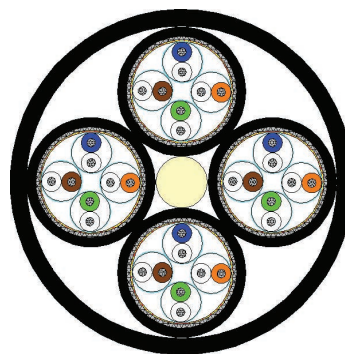
Individual Cable Physical Specifications

Conductors	Stranded tinned copper, 7x0.2 mm (24/7 AWG)	
Insulation	Cellular PO, 1.4 mm nom. O.D.	
Number of Pairs	4	
Colour Code	Blue X White Orange X White Green X White Brown X White	
Assembly	4 pairs cabled together. Each pair wrapped with an aluminium foil shield. Overall braid shield with aramid strength yarns	
Shields	Individual aluminium foil, 100% coverage	
	Overall Tinned copper braid, 80% coverage	
Jacket	Material	Industrial grade UV resistant PU compound
	Colour	Black
	Overall Diameter	8.1 mm +/- 0.3 mm

Individual Cable Electrical Specifications

Pair Mutual Capacitance	42 pF/m
Capacitance Unbalance	1.4 pF/m (800 Hz)
Pair Characteristic Fitted Impedance	100 +/- 5 Ohm (100 MHz)
Velocity of Propagation	78 % nom.
Max Skew Delay	25 ns/100m
Conductor DC Resistance	93 Ohm/km, max. @ 20 °C
Resistance Unbalance	2% max. (within pairs)
Insulation Resistance	5 GOhm/km min.
Alien Cross Talk	Proven by design per IEC 61156-6
Coupling Attenuation	Type I per IEC 61156-6
Transfer Impedance	Grade 1 per IEC 61156-6
Transverse conversion loss (TCL)	Level A per IEC 61156-6
PoE Compatibility	Yes
Attenuation	0.65 dB/10m @ 10 MHz
	0.85 dB/10m @ 16 MHz
	2.0 dB/10m @ 62.5 MHz
	2.5 dB/10m @ 100 MHz
NEXT	58 dB @ 10 MHz
	56 dB @ 16 MHz
	45 dB @ 62.5 MHz
	43 dB @ 100 MHz
ACR	57.2 dB @ 10 MHz
	54.9 dB @ 16 MHz
	42.6 dB @ 62.5 MHz
	40.1 dB @ 100 MHz

ProPlex CAT5e Ultra Ethernet cable meets attenuation specs up to 75 m (246 ft); meets all other CAT5e performance specs up to 100 m (328 ft)



Cross Section

Individual Cable PUR Jacket Properties

Jacket Compound Specification

Halogen Free Flame Retardant Polyether-based 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%

PUR Jacket Chemical Resistance Chart

Organic Substances				Inorganic Substances			
Medium	Temperature	Concentration	Reaction	Medium	Temperature	Concentration	Reaction
Acetic Acid	Room Temp	20%	slight	Acetic Acid	Room Temp	20%	nil to slight
Acetone	Room Temp	40%	poor	Acetic Acid 3N	Room Temp		poor
Astm Fuel A	Room Temp	4%	nil	Aluminium Chloride, Aqu.	Room Temp	5%	nil
Astm Fuel B	Room Temp	10%	nil	Ammonia, Aqu.	Room Temp	10%	nil
Astm Fuel C	Room Temp	18%	nil to slight	Aniline	Room Temp		no resistance
Astm Oil 1	80°C		nil	Barium Salts	Room Temp	cold saturated	nil to slight
Astm Oil 2	80°C	3%	nil	Boric Acid	Room Temp	100%	nil to slight
Astm Oil 3	80°C	6%	nil	Calcium Chloride	Room Temp	cold saturated	nil to slight
Benzene	Room Temp		poor	Calcium Nitrate	Room Temp	cold saturated	nil to slight
Butanol	Room Temp		poor	Chromium Salts, Aqu.	Room Temp	cold saturated	nil to slight
Butyl Acetate	Room Temp	40%	poor	Copper Salts, Aqu.	Room Temp	cold saturated	nil to slight
Citric Acid	Room Temp		slight	Fe Chloride, Aqu. 5%	40°C		slight
Cutting Oil	Room Temp		nil to slight	Hydrochloric Acid 20%	Room Temp	20%	nil to slight
Cyclohexanol	Room Temp	5%	slight	Hydrogen Peroxide	Room Temp	3%	nil to slight
Dibutylphthalate	Room Temp	40%	slight	Hydrogen Sulphide	Room Temp		nil to slight
Diesel Oil	Room Temp		nil to slight	Magnesium Salts, Aqu.	Room Temp	cold saturated	nil to slight
Diesel Oil	Room Temp	5%	nil	Mercury	Room Temp	100%	nil to slight
Diethylether	Room Temp		nil to slight	Mercury Salts, Aqu.	Room Temp	cold saturated	nil to slight
Diethylprestone	Room Temp		nil to slight	Nickel Salts, Aqu.	Room Temp	cold saturated	nil to slight
Dimethylformamide	Room Temp		soluble	Nitric Acid	Room Temp	20%	no resistance
Ethyl Alcohol	Room Temp	100%	slight	Phosphoric Acid	Room Temp	50%	nil to slight
Ethylacetate	Room Temp	40%	poor	Potassium Carbonate, Aqu. (Potash)	Room Temp		nil to slight
Ethylether	Room Temp		slight	Potassium Chloride	Room Temp	cold saturated	nil to slight
Glycerin	Room Temp		nil	Potassium Dichromate, Aqu.	Room Temp		slight
Glycol	Room Temp	2%	nil	Potassium Iodide	Room Temp		nil to slight
Glystantin / Water 1:1	Room Temp		slight	Potassium Nitrate, Aqu.	Room Temp		nil to slight
Glystantin / Water 1:1	80°C		slight	Potassium Permanganate	Room Temp		nil to slight
Hydraulic Oil	Room Temp		slight	Potassium Sulphate, Aqu.	Room Temp		nil to slight
Isopropanol	Room Temp	12%	slight	Sea Water	Room Temp	100%	nil
Isopropyl Alcohol	Room Temp	100%	slight	Silver Salts, Aqu.	Room Temp		nil to slight
Kerosene	Room Temp	3%	nil	Sodium Bicarbonate, Aqu. (Soda)	Room Temp		slight
Machine Oil	Room Temp		nil to slight	Sodium Chloride, Aqu.	Room Temp		nil to slight
Methanol	Room Temp	10%	slight	Sodium Chloride Solution, Conc.	Room Temp		nil
Methyl Alcohol	Room Temp	100%	slight	Sodium Hydroxide Solution 1N	Room Temp		slight
Methylen Chloride	Room Temp		no resistance	Sodium Thiosulphate, Aqu.	Room Temp		nil to slight
Methylethylketone	Room Temp	45%	poor	Sulphur	Room Temp	100%	nil to slight
Mineral Oil	80°C		nil	Sulphur Dioxide	Room Temp		slight
Olive Oil	Room Temp		nil	Sulphuric Acid 20%	Room Temp		slight
Paraffin Oil	Room Temp		nil to slight	Toluene	Room Temp	35%	poor
Siccinic Acid, Aqu.	Room Temp	cold saturated	nil to slight	Water	100°C		poor
Vegetable Oil And Fats	Room Temp		nil	Water	Room Temp		nil
				Water	80°C		nil to slight

Key:

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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