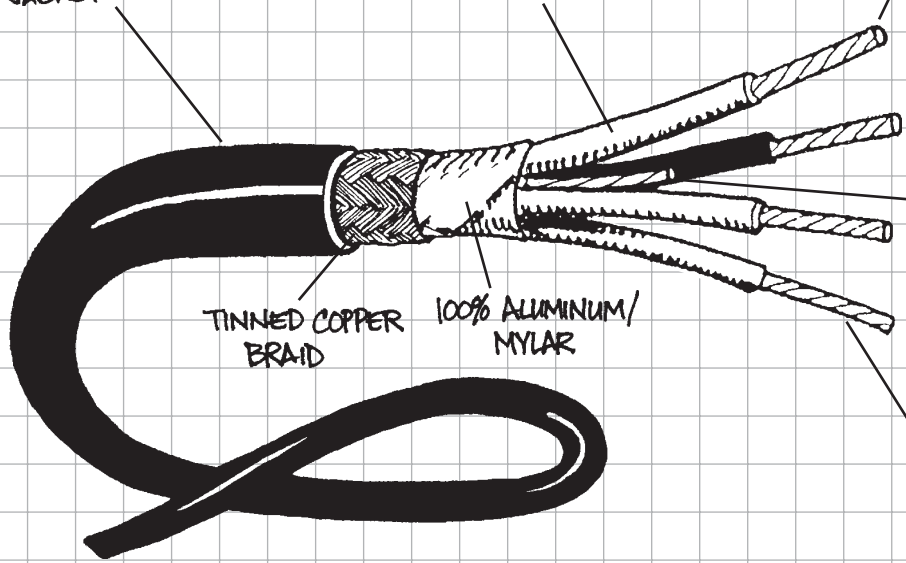


ProPlex™ - PORTABLE DATA CABLES

ULTRA TOUGH
MILITARY-GRADE
FLAME RETARDANT
JACKET

DURABLE 200°C CONDUCTOR
INSULATION FOR
* LOW CAPACITANCE
* HIGH TEMPERATURE PROTECTION

TWISTED PAIRS
#22 AWG
TINNED COPPER



600# TEST
STRENGTH
MEMBER

TINNED COPPER
BRAID

100% ALUMINUM/
MYLAR

FINE STRANDING
FOR:
* RELIABILITY
* FLEXIBILITY

THE BEST INVESTMENT YOU'LL EVER MAKE

ProPlex "P" series data cables are built to survive the toughest conditions, yet handle and coil well, again and again and again. They have been exhaustively developed, tested and re-tested. When data transmission is critical, there is only one option.

ProPlex™

PROFESSIONAL CONTROL CABLE



LOS ANGELES

10643 Glenoaks Blvd.
Pacoima, CA 91331
USA

Tel: +1 818.899.8818
Fax: +1 818.899.8813

LONDON

2 Commerce Road
Brentford, Middx TW8 8LR
UK

Tel: +44 (0)20.8560.9652
Fax: +44 (0)20.8560.1064

NEW YORK

100-D W. Forest Avenue
Englewood, NJ 07631
USA

Tel: +1 201.541.9292
Fax: +1 201.541.8448

BEIJING

Unit 4, Blk 7, Shizipo
Dongzhimenwai
Dongcheng District
Beijing, China 100027

Tel: +86 10.6417.2286
Fax: +86 10.6415.9475

TORONTO

409 Saddle St. West
Box 654, Durham
Ontario N0G-1R0

Tel: +1 519.369.9990
Fax: +1 519.369.9992

ProPlex™ PORTABLE CABLE SPECIFICATIONS

PC222P, PC224P: Extra-rugged, flexible data cables, double-shielded, low capacitance. Suitable for MIDI, DMX512, RS485/RS422 and other formats in portable applications.

PCCCT: Rugged, flexible combination power and control cable for color changers.

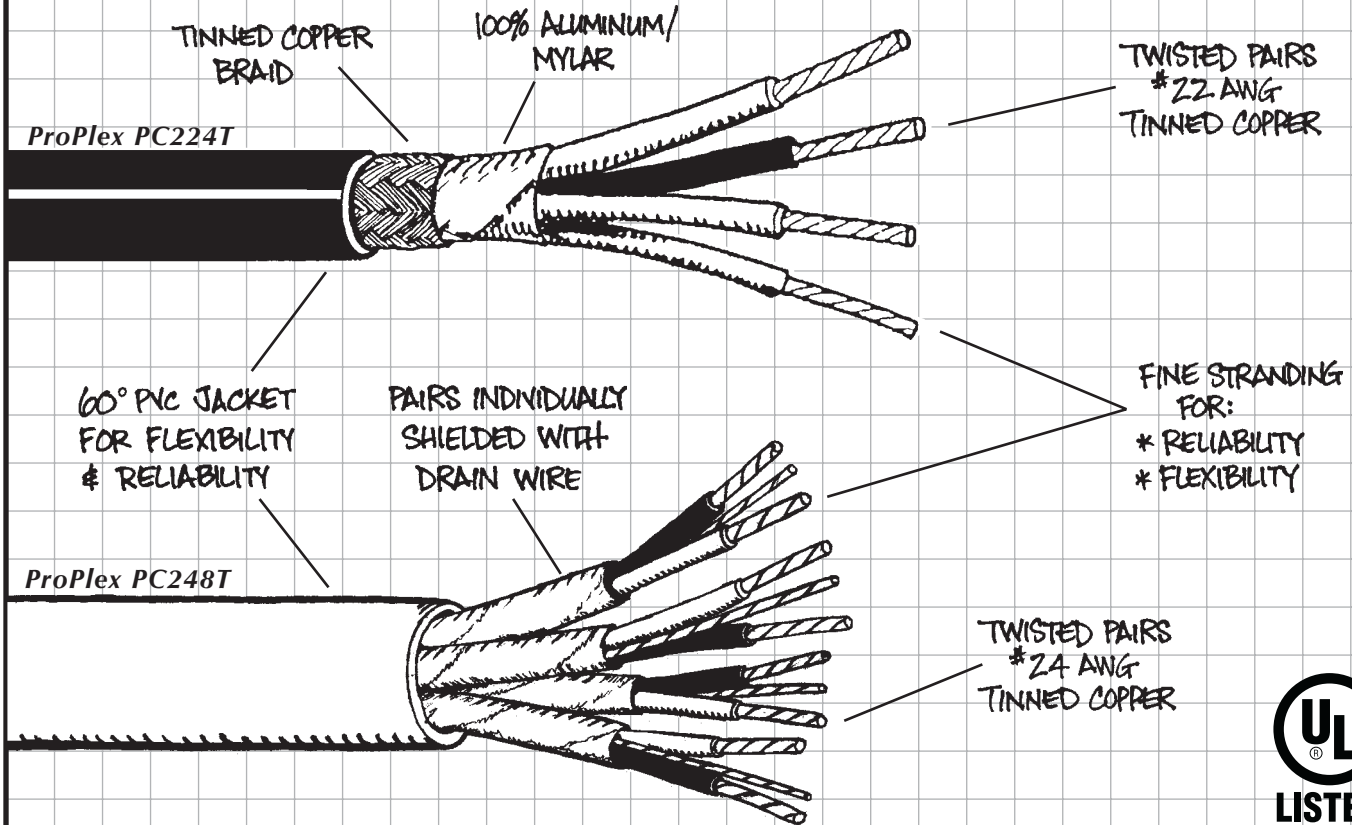
PC1818ES: Extra-rugged, flexible 18 gauge, 18 conductor flexible analog snake cable.

PC2237ES: Extra-rugged, flexible 22 gauge, 37 conductor flexible analog snake cable.

TESTING: All ProPlex data cables are tested to specification as follows: Hi Pot, Continuity, Impedance, and Capacitance.

	PC222P	PC224P	PCCCT	PC1818ES	PC2237ES
CONDUCTORS	22 AWG Tinned, annealed copper stranded 19 x 34		Data pair: 22 AWG Tinned, annealed copper strand 19 x 34 Power: 14 AWG Tinned, annealed copper stranded 41 x 30	18 AWG Tinned, annealed copper stranded 19 x 30	22 AWG Tinned, annealed copper stranded 19 x 34
INSULATION	Color coded, 200° C, 300 volt FEP. Black/White Nom. wall: 0.015" Min. wall: 0.013"	Color coded, 200° C, 300 volt FEP. Black/White, Red/Green Nom. wall: 0.015" Min. wall: 0.013"	Data pair: color coded, 80° C, 300 volt polypropylene Red/Green Nom. wall: 0.012" Min. wall: 0.008" Power: Color coded 80° C, 300volt polypropylene Black/White Nom. wall: 0.012" Min. wall: 0.009	Color coded, 300 volt PVC Nom. wall: 0.010" Min. wall: 0.008"	Color coded, 300 volt PVC Nom. wall: 0.011" Min. wall: 0.008"
ASSEMBLY	Pairs cabled with Kevlar strength member		Power singles cabled around shielded data pair w/drain wire	Planetary layup with a Kevlar strength member	Planetary layup around a polypropylene core and a Kevlar strength member
SHIELD	Inner: Aluminum / mylar, 100% coverage Outer: Tinned copper braid, 85% coverage		Aluminum / mylar around 22 AWG pair, aluminum in, 100% coverage	Tinned copper braid, 80% coverage	Aluminum / mylar, 100% coverage Tinned copper braid, 80% coverage
DRAIN	N o n e		22 AWG Tinned, annealed copper stranded 19 x 34	N o n e	
JACKET	Black polyurethane Nom. wall: 0.060" Elongation: 550% Tensile strength: 5,000 psi High pressure extrusion		Black PVC Nom. wall: 0.040" Elongation: 300% Tensile strength: 2,000 psi	Matte black polyurethane Nom. wall: 0.060" Elongation: 550% Tensile Strength: 5,000 psi	Matte black polyurethane Nom. wall: 0.070" Elongation: 550% Tensile Strength: 5,000 psi
PHYSICAL	Outside diameter: 0.215" nom. Weight: 29 lbs. per 1,000 ft.	Outside diameter: 0.285" nom. Weight: 45 lbs. per 1,000 ft.	Outside diameter: 0.290" nom. Weight: 73 lbs. per 1,000 ft.	Outside diameter: 0.500" nom. Weight: 212 lbs. per 1,000 ft.	Outside diameter: 0.62" nom. Weight: 170 lbs. per 1,000 ft.
TEMPERATURE	Plus 105° C, minus 40° C		Plus 90° C, minus 20° C	Plus 105° C, minus 70° C	
CONDUCTIVITY	14.5 Ohms (max.) per 1,000 ft. @ 25° C		Data pair: 15.5 Ohms (max.) per 1,000 ft @ 20° C	●	●
CHARACTERISTIC IMPEDANCE	80 Ohms	110 Ohms	Data pair: 60 Ohms	●	●
CAPACITANCE	22pf / ft. nom. cond.-to-cond. 41pf / ft. nom. cond.-to-shield	13pf / ft. nom. cond.-to-cond. 25pf / ft. nom. cond.-to-shield	Data pair: 25pf nom. conductor-to-conductor, 44pf nom. conductor-to-shield	●	●
INDUCTANCE	0.32 uH / ft. nom.	0.31 uH / ft. nom.	●	●	●
BEND RADIUS	1.3" minimum	1.75" minimum	●	●	●

ProPlex™ - INSTALLATION DATA CABLES



LOOKING FOR A BETTER DATA CABLE?

Designed for maximum ease of installation.

Specifications Guaranteed.

When data transmission is critical, there is only one option.

ProPlex™

PROFESSIONAL CONTROL CABLE



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Tel: +1 519.369.9990
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ProPlex™ INSTALLATION CABLE SPECIFICATIONS

PC224T, PC226T: CL2 UL-Listed low capacitance data cable, overall foil and braid shielding with drain wire. UV and fungus resistant. Fully rated for installations, yet easy handling for light-duty portable applications.

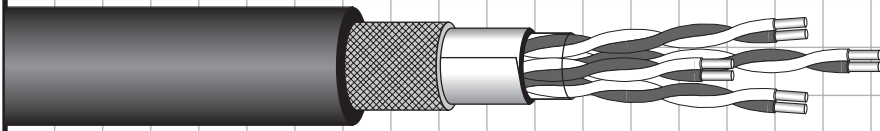
PC244T, PC248T: CM CMH C(UL) 1581-Listed low capacitance data cable, individually shielded pairs and drain wires. UV resistant. Designed for super easy pulling and stripping in permanent installations. Color coded foil shielding for easy reference.

PC244TP, PC248TP: CMP C(UL) 444-Listed low capacitance data cable, individually shielded pairs and drain wires. Plenum-rated.

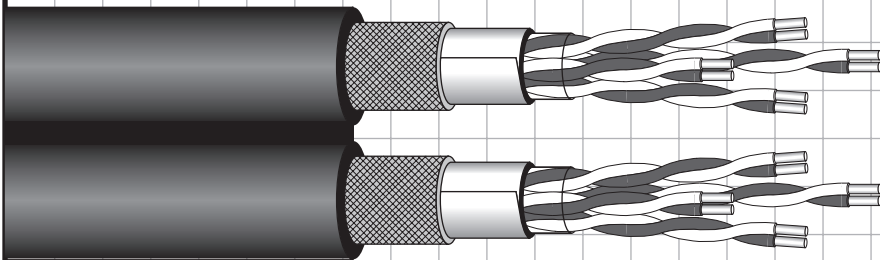
TESTING: All ProPlex data cables are tested to specification as follows: Hi Pot, Continuity, Impedance and Capacitance.

	PC224T	PC226T	PC244T	PC248T	PC244TP	PC248TP
CONDUCTORS	22 AWG Tinned, annealed copper stranded 19 x 34		24 AWG Tinned, annealed copper stranded 7 x 32		24 AWG Tinned, annealed copper stranded 7 x 32	
INSULATION	Color coded 60° C, 300 volt, foam HDPE Black/White, Red/Green Nom. wall: 0.016" Nom. dia.: 0.064"	Color coded 60° C, 300 volt foam HDPE Black/White, Red/Green, Blue/Orange Nom. wall: 0.016" Nom. dia.: 0.064"	Color coded 60° C, 300 volt, foam HDPE Black/White paired with silver shield tape Black/Red paired with red shield tape Nom. wall: 0.019" Nom. dia.: 0.062"	Color coded 60° C, 300 volt, foam HDPE. Black/White paired with silver shield tape. Black/Red paired with red shield tape. Black/Green paired with green shield tape. Black/Blue paired with blue shield tape. Nom. wall: 0.019" Nom. dia.: 0.062"	Color coded 300 volt, FEP Black/White paired Red/Green paired Nom. wall: 0.010" Nom. dia.: 0.044"	Color coded 300 volt, FEP Black/White paired Black/Red paired Black/Green paired Black/Blue paired Nom. wall: 0.010" Nom. dia.: 0.044"
ASSEMBLY	Pairs cabled with Kevlar strength member and fillers		Pairs cabled with individual shields, drain wires, fillers and clear polyester binder		Pairs cabled with individual shields, drain wires, fillers and clear polyester binder	
SHIELD	Inner: Aluminum / mylar, 100% coverage with drain wire Outer: Tinned copper braid, 75% coverage		Aluminum / mylar, 100% coverage with drain wire.		Aluminum / mylar, 100% coverage with drain wire.	
DRAIN	22 AWG Tinned, annealed copper stranded 19 x 34		24 AWG Tinned, annealed copper stranded 7 x 32		24 AWG Tinned, annealed copper stranded 7 x 32	
JACKET	Black PVC Nom. wall: 0.040" Tensile strength: 1,500 psi Construction for easy stripping		Grey PVC Nom. wall: 0.035" Construction for easy stripping		White Plenum PVC Nom. wall: 0.018" Construction for easy stripping	
PHYSICAL	Outside diameter: 0.320" nom. Weight: 58 lbs. per 1,000 ft.	Outside diameter: 0.330" nom. Weight: 63 lbs. per 1,000 ft.	Outside diameter: 0.315" nom. Weight: 28 lbs. per 1,000 ft.	Outside diameter: 0.365" nom. Weight: 55 lbs. per 1,000 ft.	Outside diameter: 0.194" nom. Weight: 20.5 lbs. per 1,000 ft.	Outside diameter: 0.234" nom. Weight: 27.1 lbs. per 1,000 ft.
TEMPERATURE	Plus 60° C, minus 20° C		Plus 60° C, minus 20° C		Plus 60° C, minus 20° C	
CONDUCTIVITY	15.5 Ohms (max.) @ 20° C		24.0 Ohms (max.) @ 20° C		22.96 Ohms (max.) @ 20° C	
CHARACTERISTIC IMPEDANCE	110 Ohms @ 1 MHz		100 Ohms @ 1 MHz		71 Ohms @ 1 MHz	
CAPACITANCE	13 pf/ft. nom. conductor-to-conductor 27 pf/ft. nom. conductor-to-shield		12.5 pf/ft. nom. conductor-to-conductor 41 pf/ft. nom. conductor-to-shield		20.4 pf/ft. nom. conductor-to-conductor 37.5 pf/ft. nom. conductor-to-shield	
INDUCTANCE	0.16 uH / ft. nom.	0.16 uH / ft. nom.	0.125 uH / ft. nom.	0.125 uH / ft. nom.	-	-
BEND RADIUS	1.6" minimum	1.7" minimum	1.6" minimum	1.8" minimum	1.6" minimum	1.8" minimum
PULL TENSION	24 lbs. maximum	36 lbs. maximum	14 lbs. maximum	28 lbs. maximum	14 lbs. maximum	28 lbs. maximum

ProPlex™ ETHERNET CABLES



PCCAT5EP
CAT5e SFTP Ethernet
Patch Cable



PCCAT5EPX2
Dual CAT5e SFTP
Figure Eight Cable



PCCAT5EUTPP
CAT5e Ultra-Patch UTP
Ethernet Cable

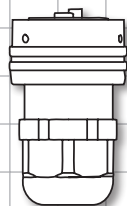
THE WORLD'S MOST DURABLE ETHERNET CABLES

Finally! 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 four heavy-duty RJ-45 connectors. Panel-mount connectors also available for a complete OEM Ethernet wiring solution.

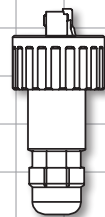
RoHS
Compliant



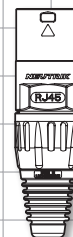
ProShell™
Durable RJ-45
Backshell



RJ Field™
Amphenol®



RJLnxx™
Industrial Ethernet Connectivity
W Woodhead Connectivity
SST • Brad Harrison • nPin™ RJ-Look



EtherCon™
NEUTRIK
CONNECTING THE WORLD

General Information

PCCAT5EP	A 4 pair, 24 AWG, 100 Ohm SFTP round patch cable, designed to the ISO / IEC 11801 Category 5e requirements. The cable contains 4 twisted pairs, cabled, double shielded with kevlar reinforcement strands, jacketed in black UV resistant Polyurethane. Designed for fixed or portable applications in harsh environments.
CAT5E SFTP ETHERNET PATCH CABLE	
PCCAT5EPX2	Two PCCAT5EP cables extruded together like a zip cord. Eliminates the need for banding two ethernet cables together.
CAT5E SFTP FIGURE EIGHT CABLE	
PCCAT5EUTPP	A 4 pair, 24 AWG, 100 Ohm 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.
CAT5E ULTRA-PATCH UTP ETHERNET CABLE	

Attenuation db/100m nom.

	772 KHz	1 MHz	4 MHz	10 MHz	16 MHz	20 MHz	31.25 MHz	62.5 MHz	100 MHz
PCCAT5EP	2.7	3.15	6.45	9.9	12.3	13.8	17.7	25.6	33
PCCAT5EPX2	2.7	3.15	6.45	9.9	12.3	13.8	17.7	25.6	33
PCCAT5EUTPP		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.

	772 KHz	1 MHz	4 MHz	10 MHz	16 MHz	20 MHz	31.25 MHz	62.5 MHz	100 MHz
PCCAT5EP	64	62	53	47	44	42	40	35	32
PCCAT5EPX2	64	62	53	47	44	42	40	35	32
PCCAT5EUTPP		65	56	50	47	46	43	38	35

Reeling Capability

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

To install this cable for reeling purposes the following guidelines are stated.

- Minimum reel core diameter is 10 cm.
- Minimum tension used during reeling and un-reeling process.
- Terminate the cable with plugs before reeling initiated.
- Cable length per reel is less than 90 meter.

General Specifications

	PCCAT5EP	PCCAT5EPX2	PCCAT5EUTPP
Conductors	24 AWG (0.25 mm ²) tinned copper, 7x0.20 mm		24 AWG (0.25 mm ²) tinned copper, 7x0.20 mm
Insulation	Color coded 568-B, Linear Low Density Polyethylene, Nom. Dia. 0.039" (1 mm)		Color coded 568-B, solid PO, Nom. Dia. 0.038" (0.97 mm)
Assembly	Pairs cabled with Kevlar strength members and separation tape wrapped.		
Shields	Inner: Aluminum mylar 100% coverage. Outer: tinned copper braid, 80%		None
Jacket	Black, special PUR compound.		Black, special PUR compound.
Weight	40 lbs. / mft (59 KG/Km)	73.9 lbs. / mft (110 KG/Km)	30 Lbs. / mft (44 KG/Km)
Outside Diameter	0.28" (7.1 mm) nom.	0.53" x 0.26" (13.5 x 6.5 mm) ± 0.15" (0.4 mm)	0.244" (6.2 mm) nom.
Minimum Bend Radius During Installation	67.5 mm (9 x O.D.)	45 mm	
Minimum Bend Radius During Operation	37.5 mm (5 x O.D.)	45 mm	
Minimum Flexes to Failure	Passes IEC 61156-6 requirements.		
Temperature Rating	Installation: -5 to +60 Deg. C Operational: -25 to +70 Deg. C		Installation: -5 to +60 Deg. C Operational: -25 to +70 Deg. C
Compliance	RoHS		

Electrical Specifications

	PCCAT5EP	PCCAT5EPX2	PCCAT5EUTPP
Voltage Rating	230 VMS		230 VMS
Spark Test (tested during production)	3 KV		
Velocity of Propagation	67% nom.		68% nom.
Impedance	100 +/-15 Ohms 1-100 MHz		100 +/-15 Ohms 1-100 MHz
Propogation Delay (100MHz)	5.2 ns/m max. @ 100 MHz		570ns/100m max @ 1 MHz 545ns/100m max @ 10 MHz 537ns/100m max @ 100 MHz
Delay Skew	20 ns/100 m max. @ 1-100 MHz		35ns/100m max @ 1-100 MHz
Dielectric Strength	VAC/1min - 700V/min		VAC/1min - 700V/min
Capacitance	46 pF/m nom. @1 KHz		pair 46 pF/m
LCL	43 dB min. @ 64 KHz		
Resistance Unbalance	3% max @ 20 deg. C		2% max @ 20 degree C
Capacitance Unbalance	3.4 pF/m max. @1KHz (wire to ground)		3.2 pF/m max. @1KHz (wire to ground)
Insulation Resistance	150 M Ohm Min.		5000 M Ohm / Km Min.
Return Loss (100 MHz)	23 db/100m min @ 1-20 MHz		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 Ohms/Km @ 20 deg. C		96 Ohms/Km @ 20 deg. C

ProPlex™

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	minus 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

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
Butyle 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		soluable
Ethyl Alcohol	Room Temp	100%	slight
Ethylacetate	Room Temp	40%	poor
Ethylether	Room Temp		slight
Glycerin	Room Temp		nil
Glycol	Room Temp	2%	nil
Glycantin / Water 1:1	Room Temp		slight
Glycantin / Water 1:1	80°C		slight
Hydraulic Oil	Room Temp		slight
Isopropanol	Room Temp	12%	slight
Isopropyl Alcohol	Room Temp	100%	slight
Kerosine	Room Temp	3%	slight
Machine Oil	Room Temp		nil
Methanol	Room Temp	10%	nil to slight
Methyl Alcohol	Room Temp	100%	slight
Methylen Chloride	Room Temp		slight
Methylethylketone	Room Temp	45%	no resistance
Mineral Oil	80°C		poor
Olive Oil	Room Temp		nil
Paraffin Oil	Room Temp		nil
Siccinic Acid, Aqu.	Room Temp		nil to slight
Vegetable Oil And Fats	Room Temp		nil to slight
			nil

PUR Jacket Chemical Resistance Chart - Inorganic Substances

Medium	Temperature	Concentration	Reaction
Acetic Acid	Room Temp	20%	nil to slight
Acetic Acid 3N	Room Temp		poor
Aluminium Chloride, Aqu.	Room Temp	5%	poor
Ammonia, Aqu.	Room Temp	10%	nil
Aniline	Room Temp		no resistance
Barium Salts	Room Temp		cold saturated
Boric Acid	Room Temp	100%	nil to slight
Calcium Chloride	Room Temp		cold saturated
Calcium Nitrate	Room Temp		cold saturated
Chromium Salts, Aqu.	Room Temp		cold saturated
Copper Salts, Aqu.	Room Temp		cold saturated
Fe Chloride, Aqu. 5%	Room Temp		cold saturated
Hydrochloric Acid 20%	40°C		slight
Hydrogen Peroxide	Room Temp	20%	nil to slight
Hydrogen Sulphide	Room Temp	3%	nil to slight
Magnesium Salts, Aqu.	Room Temp		nil to slight
Mercury	Room Temp		cold saturated
Mercury Salts, Aqu.	Room Temp	100%	nil to slight
Nickel Salts, Aqu.	Room Temp		cold saturated
Nitric Acid	Room Temp	20%	nil to slight
Phosphoric Acid	Room Temp	50%	nil to slight
Potassium Carbonate, Aqu. (Potash)	Room Temp		nil to slight
Potassium Chloride	Room Temp		nil to slight
Potassium Dichromate, Aqu.	Room Temp		cold saturated
Potassium Iodide	Room Temp		slight
Potassium Nitrate, Aqu.	Room Temp		nil to slight
Potassium Permanganate	Room Temp		nil to slight
Potassium Sulphate, Aqu.	Room Temp		nil to slight
Sea Water	Room Temp	100%	nil
Silver Salts, Aqu.	Room Temp		nil to slight
Sodium Bicarbonate, Aqu. (Soda)	Room Temp		slight
Sodium Chloride, Aqu.	Room Temp		nil to slight
Sodium Chloride Solution, Conc.	Room Temp		nil
Sodium Hydroxide Solution 1N	Room Temp		slight
Sodium Thiosulphate, Aqu.	Room Temp		nil to slight
Sulphur	Room Temp	100%	nil to slight
Sulphur Dioxide	Room Temp		slight
Sulphuric Acid 20%	Room Temp		slight
Toluene	Room Temp	35%	poor
Water	100°C		poor
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

LITPPXCATSE3 010311



LOS ANGELES

10643 Glenoaks Blvd.
Pacoima, CA 91331
USA

Tel: +1 818.899.8818
Fax: +1 818.899.8813

LONDON

21 Armstrong Way
Southall
UB2 4SD England

Tel: +44 (0)20.8574.9700
Fax: +44 (0)20.8574.9701

NEW YORK

100 Asia Place
Carlstadt, NJ 07072
USA

Tel: +1 201.896.8600
Fax: +1 201.896.8601

BEIJING

No. 309, Building 6
Sanlitun Nanlu
Chaoyang District
Beijing, China 100027

Tel: +86 10.8492.1587
Fax: +86 10.8492.7635

TORONTO

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