

# **Punicond**

We are a full line manufacturer of rope, cordage, and tying twine products for recreational marine, hardware houseware, sporting goods, commercial, industrial, fisheries, and OEM markets. With satellite plants in Mexico and headquartered in Chicago, IL. The Unicord Companies are one of the fastest growing companies in the industry. We believe that our growth is fueled by a desire to meet and exceed our clients' needs. This attitude plays a pivotal role in building and nurturing a profitable and long lasting relationship with our family of customers. That's why finding the ideal lines with Unicord means a commitment to quality, service and value.

#### GENERAL CHARACTERISTICS OF MAN-MADE FIBERS

	Nylon	Polyester	Polypropylene	Manila
Fiber strength Grams per denier	8.0 - 9.0	6.5 - 8.5	6.0 - 7.5	5.0
Repeat Loading Characteristics	Excellent	Excellent	Good	Poor
Ability to Float	No	No	Yes	No
Elongation at Breaking Point	35%	22%	24%	27%
% of Water Absorption into Fibers	Up to 9%	less than 1%	0%	up to 100% of rope weight
Sunlight Deterioration	Some	Very Low	Some	High
Surface Abrasion Resistance	Very Good	Excellent	Good	Good
High Temperature Properties	e Melts @ 480°F	Melts @ 482°F	Melts @ 330°F	Loses strength over 180°F
Effects of Cold Temperature	Slight Increase in strength to -5°F	Slight Increase in strength to -40°F	Becomes Brittle @ -40°F	Begins to split & Fracture below -32°F
Flammability	Melts First	Melts First	Melts First	Burns like wood

#### THE ECONOMICS OF ROPE BUYING

	Nylon	Polyester	Polypropylene	Manila
Service Life Factor Manila = 1	2 - 5	3 - 5	2 - 3	1
<b>Cost per Pound</b> Manila = 100	187	178	102	100
<b>Cost per Foot</b> Manila = 100	179	201	68	100
Cost per Foot Factoring Service Life Manila = 100	e 51	50	27	100
Cost per Foot with Working Stretch Facto Manila = 100	or 113	163	52	100
Cost per foot with bo working strength and service factor Manila = 100		40	21	100



UNICORD COMPANIES: Unicord Corp., IL Unicord Mexico S.A. de C.V. Unicord International LLC dba Colombian Rope Co.

Web site: www.unicordcorp.com



#### **3 STRAND TWISTED NYLON**

Strong, durable, flexible and shock absorbent. Twisted nylon stretches up to 40% before breaking. Ideal for docking, anchoring or pulling. Spliceable. Resists chemicals and abrasion. Available in colors.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
100026	1/4″	3/4″	600´	1490	9
100033	1/4″	3/4″	1200′	1490	18
100040	5/16″	1″	600´	2300	15
100057	3/8″	1-1/8″	600´	3340	21
100064	1/2‴	1-1/2″	600´	5750	39
100071	5/8″	2‴	600´	9000	63
100088	3/4‴	2-1/4″	600´	11300	87
100095*	7/8″	2-3/4″	600´	18000	120
100101	1″	3‴	600´	22600	158
100118	1-1/8″	3-1/2″	600´	29800	204
100125	1-1/4″	3-3/4″	600´	33800	240
100149	1-1/2″	4-1/2″	600´	47800	330
100156	1-5/8″	5″	600´	58500	399
100163	1-3/4″	5-1/2″	600´	70000	498
100170	2″	6″	600´	83000	570

\*Minimum Quantities Required



#### 3 STRAND TWISTED POLYPROPYLENE

We do this one almost from scratch! Extruding the polypropylene resin into filament fibers enables us to offer various colors and faster availability. Polypropylene is light, floatable and highly resistant to most chemicals. Very low stretch. Spliceable. Available in colors. Tonail

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
102013	1/4″	3/4″	600´	1130	7
102020	1/4″	3/4″	1200´	1130	14
102037	5/16″	1″	600´	1710	11
102044	3/8″	1-1/8″	600´	2440	17
102051	1/2″	1-1/2″	600´	3780	28
102068	5/8″	2″	600´	5600	45
102075*	3/4″	2-1/4″	600´	7650	64
102082*	7/8″	2-3/4″	600´	10400	90
102099	1″	3‴	600´	12600	108
102105	1-1/8″	3-1/2″	600´	16500	143
102112	1-1/4″	3-3/4″	600´	18900	162
102129	1-1/2″	4-1/2″	600´	26800	230
102136*	1-5/8″	5″	600´	32400	286
102143*	1-3/4″	5-1/2″	600´	38800	354
102150	2″	6″	600´	46800	414

\*Minimum Quantities Required



#### **3 STRAND POLYESTER**

Highly resistant to ultra-violet rays, polyester rope stays flexible and does not shrink or harden. Low stretch, abrasion resistant. Spliceable. Available in colors. Resists chemicals.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
101016	1/4″	3/4″	600´	1490	10
101023	1/4″	3/4″	1200´	1490	20
101030	5/16″	1″	600´	2300	19
101047	3/8″	1-1/8″	600´	3340	24
101054	1/2″	1-1/2″	600´	5750	45
101061	5/8″	2″	600´	9000	72
101078	3/4″	2-1/4″	600´	11300	105
101085*	7/8″	2-3/4″	600´	16200	150
101092	1″	3″	600´	19800	183
101108	1-1/8″	3-1/2″	600´	26600	240
101115	1-1/4″	3-3/4″	600´	29800	278
101122	1-1/2″	4-1/2″	600´	42200	402
101139	1-5/8″	5″	600´	51500	492
101146	1-3/4″	5-1/2″	600´	61000	588
101153	2‴	6″	600´	72000	708
*Minimum	Quantities	Required			



#### **3 STRAND TWISTED COMBINATION** (POLYESTER/POLYPROPYLENE)

The best of polyester and polypropylene. The product of demand for a low cost utility and general purpose rope. Its very low stretch makes it a great tool for commercial fishermen. Spliceable. т ч

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
102303	3/8″	1-1/8″	600´	2700	22
102310	1/2″	1-1/2″	600´	4700	39
102327	5/8″	2″	600´	7000	57
102334*	3/4″	2-1/4″	600´	7650	75
102341*	7/8″	2-3/4″	600´	10400	108
102358*	1″	3″	600´	12600	131
102365*	1-1/8″	3-1/2″	600´	16500	174
102372*	1-1/4″	3-3/4″	600´	18900	200
102389*	1-1/2″	4-1/2″	600´	26800	270
102396*	1-5/8″	5″	600´	32400	333
102402*	1-3/4″	5-1/2″	600´	38800	399
102419	2″	6″	600´	46800	468

\*Minimum Quantities Required

# INCURD

UNICORD COMPANIES: Unicord Corp., IL Unicord Mexico S.A. de C.V. Unicord International LLC dba Colombian Rope Co.

Web site: www.unicordcorp.com



#### BRAID OVER BRAID NYLON

Highest in value, this two in one rope has all the advantages of nylon fibers TWICE! The unique construction of a sixteen strand diamond braid jacket over an eight strand diamond braided core creates a kink free rope, ideal for marine and industrial applications where high strength along with some stretch (for shock absorbency) is a must. Available in colors. Spliceable. Some shrinkage. Resistant to most chemicals.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 16 23 31
103027     3/8"     1-1/8"     600'     3700       103034     7/16"     1-5/16"     600'     5020       103041     1/2"     1-1/2"     600'     6550       103089     9/16"     1-3/4"     600'     8270	23
103034     7/16"     1-5/16"     600'     5020       103041     1/2"     1-1/2"     600'     6550       103089     9/16"     1-3/4"     600'     8270	
103041     1/2"     1-1/2"     600'     6550       103089     9/16"     1-3/4"     600'     8270	31
103089 9/16" 1-3/4" 600' 8270	
	40
102059 5/8″ 2″ 600′ 10200	50
103038 378 2 000 10200	70
103065 3/4" 2-1/4" 600' 14700	90
103096 7/8 <sup>"</sup> 2-3/4 <sup>"</sup> 600' 19900	122
103072 1 <sup>"</sup> 3 <sup>"</sup> 600' 26000	156



#### BRAID OVER BRAID POLYESTER (LOW STRETCH)

An excellent choice for sheets and halyards due to its balanced and round construction, low stretch and high tensile strength. Spliceable. Available with color identification markers in blue, green, red and black.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
103904	1/4″	3/4″	600´	1900	11
103911	5/16″	1″	600´	2935	18
103928	3/8″	1-1/8″	600´	4245	26
103935	7/16″	1-5/16″	600´	5730	36
103942	1/2″	1-1/2″	600´	7500	47
103980	9/16″	1-3/4″	600´	9450	61
103959	5/8″	2″	600´	11660	84
103966	3/4″	2-1/4″	600´	16610	107
103977	7/8″	2-3/4″	600´	22660	147
103973	1″	3″	600´	29480	202

Corporate:

12010 S. Paulina, St.

Fax: 708-385-8395

Calumet Park, IL 60827

Phone: 888-593-7999 or 708-385-7999



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#### SOLID BRAID NYLON

Made of 100% Multifilament nylon with a round construction. It is ideal for blocks, pulleys, winches, mooring lines and general tie downs. Non-spliceable. Abrasion and chemical resistant. Available in colors.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
500000	3/32″	9/32″	1000′	337	3
500017	1/8″	3/8″	1000´	450	5
500024	5/32″	1/2″	1000´	600	7
500031	3/16″	5/8″	1000´	850	10
500048	1/4″	3/4″	1000´	1200	15
500055	5/16″	1″	1000´	1800	26
500079	3/8″	1-1/8″	1000´	2700	34
500093	1/2″	1-1/2″	500´	4000	30
500116	5/8″	2″	500´	7200	52



#### SOLID BRAID POLYESTER

As one of the most durable man-made fibers, polyester offers minimal shrinkage and very low stretch. Its solid braid construction allows flexibility that makes it an excellent rope for small boat sheets and halyards, flag halyards, clothesline, and general tie downs. Non-spliceable. Abrasion and chemical resistant. Available in colors.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
501007	3/32″	9/32″	1000´	337	3
501014	1/8″	3/8″	1000′	450	5
501021	5/32″	1/2″	1000′	800	7
501038	3/16″	5/8″	1000′	900	11
501045	1/4″	3/4″	1000′	1300	16
501052	5/16″	1″	1000′	2500	28
501069	3/8″	1-1/8″	1000′	3100	38
501083	1/2″	1-1/2″	500´	4000	32
501106	5/8″	2″	500´	7300	58



#### SOLID BRAID MULTIFILAMENT POLYPROPYLENE

Excellent knot retention qualities, it feels and looks like nylon at about 35% higher yield pound for pound. Various color combinations have made this particular rope a favorite of the equestrian market. Non-spliceable. Available in colors.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
505005	1/8″	3/8″	1000´	250	4.6
505012	3/16″	5/8″	1000′	550	10.0
505029	1/4″	3/4″	1000′	750	15.0
505036	5/16″	1″	1000′	1200	21.0
505043	3/8″	1-1/8″	1000′	1800	27.7
505050	1/2″	1-1/2″	500´	2200	18.0
505074	5/8″	2″	500´	2600	21.0



#### DIAMOND BRAID NYLON

One of the best general purpose ropes that absorbs shock loads due to excellent elasticity. Long a favorite of the tent, awning, blinds and shade industry. Non-spliceable. Available in colors.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
500123	3/32″	9/32″	1000′	350	3
500130	1/8″	3/8″	1000′	400	4
500147	5/32″	1/2″	1000′	500	7
500154	3/16″	5/8″	1000′	700	10
500161	1/4″	3/4″	1000′	1200	15
500178	5/16″	1″	1000′	1750	26
500185	3/8″	1-1/8″	500´	2300	15
500192	1/2″	1-1/2″	500´	3500	30



#### DIAMOND BRAID MONOFILAMENT POLYPROPYLENE (HOLLOW BRAID)

Perhaps the most practical and inexpensive synthetic rope on the market. Its hollow core provides a high knot retention and is easy to splice. Our in-house produced fiber is treated with UV stabilizers for sunlight durability. In addition to the 8 strand utility construction, Unicord manufactures 12 strand premium construction. Spliceable. Available in a variety of colors.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
8 Strand					
500208	1/8″	3/8″	1000´	200	2
500215	3/16″	5/8″	1000´	450	5
500239	1/4″	3/4″	1000´	975	8
500246	5/16″	1″	1000´	1400	11
500253	3/8″	1-1/8″	1000´	2000	16
500260	1/2″	1-1/2″	500´	2600	11

12 Strand					
500307	1/4″	3/4″	1000′	1200	12
500314	5/16″	1″	1000′	1750	14



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Corporate: 12010 S. Paulina, St. Calumet Park, IL 60827 Phone: 888-593-7999 or 708-385-7999 Fax: 708-385-8395



#### DIAMOND BRAID POLYESTER

A light, floatable, low stretch, economical cord ideal for camping, clothesline and general utility applications. Nonspliceable. Available in a variety of colors.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
501113	3/32″	9/32″	1000′	350	3
501120	1/8″	3/8″	1000′	400	5
501137	5/32″	1/2″	1000′	600	8
501144	3/16″	5/8″	1000′	800	11
501151	1/4″	3/4″	1000′	1200	16
501168	5/16″	1″	1000′	1800	28
501175	3/8″	1-1/8″	1000′	2400	39
501182	1/2″	1-1/2″	500´	3800	32



#### DIAMOND BRAID MULTIFILAMENT POLYPROPYLENE

A light, floatable, low stretch, economical cord ideal for camping, clothesline and general utility applications. Nonspliceable. Available in a variety of colors.

UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
501199	1/8″	3/8″	1000´	250	5
501205	3/16″	5/8″	1000′	475	6
501212	1/4″	3/4″	1000′	1000	12
501229	5/16″	1″	1000′	1500	15
501236	3/8″	1-1/8″	1000′	2250	29
501243	1/2″	1-1/2″	500´	2900	20



#### ELASTIC (SHOCK) CORD

Made of high quality rubber core and nylon or polyester cover, our shock cords stretch 120% – 140%. Ideal for car, boat and motorcycle covers and general cargo tie downs. Non-spliceable. Available with hooks in various lengths. Available in colors.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	UPC I.D.	Diameter	Circumference	Put-up	Tensile Strength	Approx. Weight
701025     1/4"     3/4"     500'     300     10       701032     5/16"     1"     500'     350     11       701049     3/8"     1-1/8"     300'     400     11	701001	1/8″	3/8″	1000´	100	8
701032     5/16"     1"     500'     350     11       701049     3/8"     1-1/8"     300'     400     11	701018	3/16″	5/8″	500´	200	6
701049 3/8" 1-1/8" 300' 400 11	701025	1/4″	3/4″	500´	300	10
	701032	5/16″	1″	500´	350	11
701056 1/2" 1-1/2" 100' 450 10	701049	3/8″	1-1/8″	300´	400	11
	701056	1/2″	1-1/2″	100′	450	10

Also Available: Manila, Sisal, Knitted cords, Nylon, Poly and cotton twine, and California Truck Rope. See price list.

### ALSO AVAILABLE:

MANILA, SISAL, KNITTED CORDS, NYLON, POLY AND COTTON TWINE, AND GALIFORNIA TRUCK ROPE. SEE PRICE LIST

## DOCK AND ANCHOR LINES CONSTRUCTED OF HIGH QUALITY U.S. MADE FIBERS

• Every Unicord line is expertly hand-spliced

• Trilingual Packaging









#### FENDER LINES

Pre-spliced eye at one end. Choose from twisted 1/4" x 6'or braid over braid 3/8" x 6'. Conveniently ready to use.







**ANCHOR LINES** Available in a variety of diameters and lengths, these lines are spliced with thimbles or snap hooks to suit your specific needs.





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## MULTILINE

• Ready to Use

• Trilingual Packaging

Multilines are cut to length and individually packaged in poly bags, hanks or coilettes. The bags are available in 2sizes and have an integrated header printed in an attractive 3-color format. The header is designed to eliminate problems with the bag tearing from the peg. The peg hole will accommodate single or double pegs. The cords are manufactured from synthetic fibers.They can be used for many utility purposes, such as winch lines, pulley ropes, tie downs, anchor lines or other general utility purposes.









#### THE MULTILINE BULK ROPE DISPLAY

...can boost impulse sales with its high visibility. Customers have easy access to multiple reels to choose the rope that best suits their needs.

Holds from 5 to 15 reels of your choice or our recommendations. We will custom design plan-o-grams to suit specific markets. Easy to assemble in less than 10 minutes. Directions included. 24" wide x 24" deep x 72" high at 30 pounds (empty). Total floor space is 4 square feet. Front panels to affix identification / price tags for each level (not shown). Rope Cutters and Counters are also available.

Model #666690

COLORS AVAILABLE:





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# TUGTAPE

## UNICORD SERIES OF TUGTAPE



ADDDOV

- CORROSION, TEMPERATURE, AND FLAME RESISTANT
- PRE LUBRICATION REDUCES FRICTION
- HIGH TENSILE & LIGHTWEIGHT POLYESTER FOR EASE OF USE
- HIGHLY VISIBLE SEQUENTIAL FOOTAGE OR METRIC MARKING
- EASILY SPLICEABLE
- DETECTABLE TUGTAPE IS COMPATIBLE WITH ALL STANDARD TRANSMITTING/RECEIVING EQUIPMENT

	MINIMUM REEL MAXIMUM REEL APPROX.				
	STRENGTH	LENGTHS	LENGTHS	WIDTH	
PRODUCT	(lbs/kg)	(ft/m)	( ft/m)	(Inch/mm)	
PTP400-1/4	400/182	1500/457	50000/15240	1/4"/6mm	
PTP600-3/8	600/273	1500/457	50000/15240	3/8"/10mm	
PTP900-3/8	900/408	1500/457	50000/15240	3/8"/10mm	
PTP1250-3/8	1250/567	1500/457	50000/15240	3/8"/10mm	
PTP1800-3/8	1800/818	1500/457	50000/15240	3/8"/10mm	
PTP900-1/2	900/408	1500/457	50000/15240	1/2"/13mm	
PTP1250-1/2	1250/567	1500/457	50000/15240	1/2"/13mm	
PTP1800-1/2	1800/818	1500/457	50000/15240	1/2"/13mm	
PTP3300-1/2	3300/1500	1500/457	50000/15240	1/2"/13mm	
PTP1250-5/8	1250/567	1500/457	50000/15240	5/8"/16mm	
PTP1800-5/8	1800/818	1500/457	50000/15240	5/8"/16mm	
PTP1800-3/4	1800/818	1500/457	50000/15240	3/4"/19mm	
PTP2500-3/4	2500/1134	1500/457	50000/15240	3/4"/19mm	
PTP3300-3/4	3300/1500	1500/457	50000/15240	3/4"/19mm	

MINIMUM DEEL MANNUM DEEL

#### PULLING TAPES

PRODUCT	MINIMUM REEL STRENGTH (lbs/kg)	MAXIMUM RE LENGTHS (ft/m)	EL APPROX. LENGTHS (ft/m)	WIDTH (Inch/mm)
DPTP900-3/8	900/408	1500/457	50000/15240	3/8"/10mm
DPTP1250-3/8	1250/567	1500/457	50000/15240	3/8"/10mm
DPTP1250-1/2	1250/567	1500/457	50000/15240	1/2"/13mm
DPTP1800-1/2	1800/818	1500/457	50000/15240	1/2"/13mm
DPTP1800-5/8	1800/818	1500/457	50000/15240	5/8"/16mm
DPTP2500-3/4	2500/1134	1500/457	50000/15240	3/4"/19mm



PTP = TUGTAPE POLYESTER (PSTR) DPTP = DETECTABLE TUGTAPE POLYESTER (PSTR)

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#### ROPE-OUR OLDEST TOOL

ROPE When ancient man used a vine to pull or tie something, he was using a tool. Long before the use of a lever or other hand tools, man used a form of rope. The Phoenicians are said to have hand twisted the ropes they used on their ships, long before the coming of Christ. The process of twisting ropes did not change much for hundreds of years until the early 1800's when machines were used to twist vegetable fibers into 3 and 4 strand ropes. Today, synthetic fibers have become the material of choice for most rope construction. Even now, these fibers are slowly being replaced by "exotic" fibers that are stronger and more economical than some other rope fibers, even steel. There are two predominant construc-



tions for making rope; twisted and braided. Twisted rope is made from both vegetable and synthetic fibers.

Vegetable fibers most commonly used are manila, cotton and sisal. Synthetic

fibers are nylon, polyester

(dacron), polypropylene and some combinations of polyester and polypropylene. The basic manufacturing process is done in three or four stages. Most polypropylene is made in three stages. Nylon and polyester and combinations are made in four stages.

The individual threads are twisted together to form a yarn.
Three yarns are then twisted together.

3. Any number of yarns (dependent on diameter) are twisted to form a strand.

4. Three strands are twisted to form a rope.

Formulas are used to determine what size or diameter of rope is made. Much care is taken to insure that the proper number of threads are used. Each stage of manufacture is done in a different direction S- (left) Z- (right). This gives the rope the ability to stay together and remain stable. The process of braiding is somewhat the



same as for twisting. However, there are more types of construction, such as diamond braid, solid braid, hollow braid and braid on braid. Each of these types has its own particular construction. Diamond braids

generally have an non-braided core. Solid braid has no core. Hollow braid has no core only a jacket. Braid on braid has a braided core. Cotton is the prime vegetable fiber used in braids. Mainly, synthetics such as nylon, polyester and polypropylene are used. Other synthetics are sometimes used. Braiding begins much like twisting. The yarn is prepared by twisting. The braiding process can be done on machines using

eight, twelve or sixteen or thirty two carriers (yarns). The machines braid the yarns together by a zig zag process with yarns coming together to form a rope. When choosing a rope for a particular use, there are some significant factors to consider.



1. Cost - this factor must be determined by the others involved. Cheapest is not always best, nor is high price the final answer.

 Strength - probably the most significant of all. Remember, the safe working load of any rope is ten percent of the break strength.

3. Material - stretch, strength, durability and chemical resistance all make

up the choice of a proper material.

Sound difficult? Not really; most rope has a distinctive quality of its own and it is not too difficult to determine which rope is best for your need. A consultation with your rope vendor generally will result in a wise choice.



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