



# Specifications

Detailed information and specifications for braided rope constructions

## FcdY'GdYW]ÚWUh]cbg

The information contained in this book includes specifications for the following braided rope constructions:

### Rope Specifications and Special Requirements

Plasma® 12 Strand	
Plasma® 12x12	
Plasma® LoCo 12 Strand	
Plasma® LoCo 12x12	
Plasma® HiCo 12 Strand	10
Plasma® HiCo 12x12	11–12
Toro™ 12 Strand	13
Toro™ 12x12	14
Reduced Recoil Plasma®	15
Vectran® 12 Strand and 12x12	16
BOB® 12 Strand	17
BOB® 12x12 Strand	18–19
Technora® 12 Strand	20
Polyester 12 Strand	21
Co-polymer 12 Plait	
PSR 2000 12 Strand	
Polyester 12 Plait	
Nylon 12 Plait	
D/S Composite Double Braid	
D/Z Composite Double Braid	
D/V Composite Double Braid	
G/T Composite Double Braid	
GTM Composite Double Braid	30
N/P Composite Double Braid	31
Nylon Double Braid	
Polyester Double Braid	
Spun Polyester Double Braid	
Wear Protection	







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D`Ug a U®

## HYW\ b]WU`-bZcf a Uh]cb

Specific gravity	\$"- , †
Melting point	&, (š: `fl%(\$š7ł
Critical temp.	%)\$š: `fl* )š7ł
Coefficient of friction	\$'-\$- i\$"%&†
Elongation at break	' i i ( i
Fiber water absorption	0%
UV resistance	[ ccX
Wet abrasion	g i dYf]cf
Dry abrasion	g i dYf]cf

\* value based on data supplied by the fiber manufacturer for new, dry fiber

Quantity	Size	Unit	Price	Weight	Volume	Area
1	300	mm	270	0.1	0.1	300

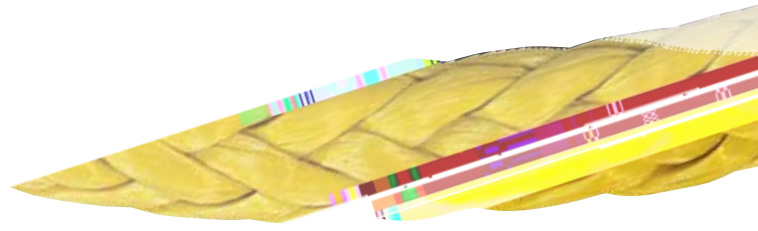








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# D`Ug a U® <]7 c`%&I %&

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## HYW\ b]WU` =bZcf a Uh]cb

Specific gravity	\$"- , †
Melting point	& , (š : 'fl% (\$š7Ł
Critical temp.	%)\$š : 'fl* )š7Ł
Coefficient of friction	\$"%& ì \$"% ) †
Elongation at break	' ì ( ì
Fiber water absorption	0%
UV resistance	[ccX
Wet abrasion	g idYf]cf
Dry abrasion	g idYf]cf

\* value based on data supplied by the fiber manufacturer for new, dry fiber

















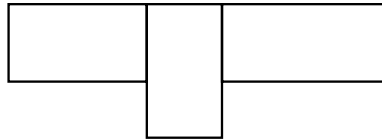


**Dc`mYghYf'%'&'GhfUbX**

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7c!dc`m a Yf`C`YZ]b`%&`D`U]h`dfc j]XYg` \][ \`  
ghfYb [h\z`][ \h`kY][ \h`UbX`YIWY`Ybh`UVfUg]cb`  
fYg]ghUbWY`]b`U`g]b [ `Y`VfU]X`Wcbghf i Wh]cb`

Co-polymer Olefn 12 Plait is easily spliced using a standard tuck splice and is 40% stronger than three strand or 8 plait polypropylene. Its torque free braided construction provides easy handling and prevents kinks and hockles.



## :YUhi fYg` / `6YbYUhg

- Floats
- High strength
- Excellent abrasion resistance
- Torque free
- Easy splicing
- Excellent UV resistance

## 5dd`]WU]cbg

- Floating mooring lines for barges/vessels
- Floating winch lines
- Subsea buoy moorings
- Lashings

Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d ) plus 4%. See reverse side for application and safety information.

### HYW\ b]WU`-bZcf a Uh]cb

Specific gravity	\$`-( t
Melting point	&+ -s: f%` +s7L
Critical temp.	%( \$s: f`* \$s7L
Coefficient of friction	\$`%* i \$`% , t
Elongation at break	&\$ i & ) i
Fiber water absorption	\$ i % i
UV resistance	Y IWY`Ybh
Wet abrasion	j Yfm` [ ccX
Dry abrasion	Y IWY`Ybh

\* value based on data supplied by the fiber manufacturer for new, dry fiber

# DGF'&\$\$\$'%&'GhfUbX

DGF'&\$\$\$'%&'GhfUbX'cZYZfg'U'\'][\`ghfYb[h\`hc'kY][\`h'fUh]c'UbX'jg'Ub'YIWy`Ybh'fYd`UWY a Ybh'Zcf'\YUj]Yf'dc`mYghYf``]bYg" It's unique blend of polyester and olefn co-polymer in each strand makes for a highly efficient construction. PSR 2000 12 Strand is torque balanced, has excellent wear resistance, and is one of the quickest ropes to splice.

PSR 2000 12 Strand is an excellent choice as mooring, tie-up and pendant lines, tug assist lines and for general purpose heavy marine applications.

:YUhi fYg' / '6YbYUhg  
Low stretb".

# Dc`mYghYf`%&`D`U]h

Dc`mYghYf`%&`D`U]h`dfc j]XYg`\\[ `ghfYb [h`z`c k`ghfYhW`UbX`YIWy`Ybh`UVfUg]cb`fYg]ghUbWY`b`U`i b]e i Y`g]b [ `Y`VfU]X`Wcbghf i Wh]cb` Polyester 12 Plait is easily spliced using a standard tuck splice and is 30% stronger than three strand or 8 plait polyester. Its torque free braided construction provides easy handling and prevents kinks and hockles.

Polyester 12 Plait is delivered standard with an overlay marine finish and is available on special order with a spliceable polyurethane finish in clear or any of six colors.

:YUh i fYg` / `6YbYUhg  
Low stretch

M



# Bm`cb`%&`D`U]h

Bm`cb`%&`D`U]h`dfc j]XYg`\[ [\ `ghfYb [h\z`\][ \ `Y`cb [Uh]cb`UbX`YIWY`Ybh`UVfUg]cb`fYg]ghUbWY` ]b`U`g]b [ `Y`VfU]X`Wcbghf i Wh]cb" Nylon 12 Plait is easily spliced using a standard tuck splice and is 25% stronger than three strand or 8 plait nylon. Its torque free braided construction provides easy handling and prevents kinks and hockles.



Nylon 12 Plait is available standard with an overlay marine finish.

- :YUh i fYg` / `6YbYUhg
- High stretch
- High strength
- Excellent shock absorption
- Soft hand
- Torque free
- Easy splicing

- 5dd`]WUh]cbg
- Mooring lines
- Anchor lines
- KERR towing Lines
- Tug hawsers and stretchers
- Commercial fishing nets
- Security barriers

HmdY`Uddfc jYX`dfcXi Wh

Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. With extended immersion in water, all nylon ropes will lose up to 10% of their strength. Weights are calculated at linear density under standard preload (200d ) plus 7%. See reverse side for application and safety information.

Please note that the Minimum Tensile Strengths of Black Nylon 12 Plait products are

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Specific gravity	%%( †
Melting point	(% (š : fi&%&š7L
Critical temp.	* \$\$\$ : fi% (-š7L
Coefficient of friction	\$%& i \$%) †
Elongation at break	' \$ i ' ) i
Fiber water absorption	' i ) i
UV resistance	[ ccX
Wet abrasion	YIWY`Ybh
Dry abrasion	YIWY`Ybh

\* value based on data supplied by the fiber manufacturer for new, dry fiber

Bm`cb`%&`D`U]h`  
9`cb [Uh]cb`fi i Ł





8#J`7c a d c g]hY`8c i V`Y`6fU]X

8#J`7c a d c

#J`7

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; #H' 7 c a d c g] h Y' f c d Y g' d f c j] X Y' \] [ \ ` g h f Y b [ h \ z'`  
 ` c k' g h f Y h W \ ` U b X' g i d Y f] c f' U V f U g] c b' f Y g] g h U b W Y' ] b'  
 U' Z] f a' f c i b X' ^ U W\_ Y h Y X' W c b g h f i W h] c b" The ropes  
 are constructed with a braided Plasma® core. This  
 Diameter      **Siz**      e b % K S] [ \ h      A] b] a i a' H Y b g] Y'      ò      cm  
                   ] b' %





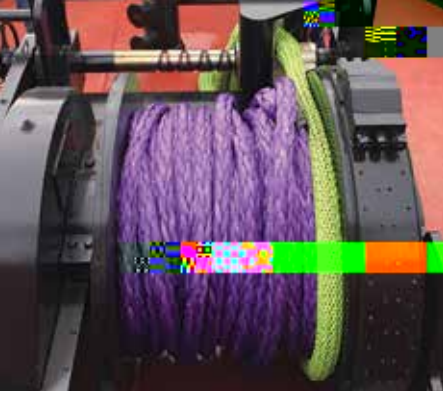




Bca]bU'' 8]Ua]YhYf	Size flW]fW' ]b't	5ddfc]aUhY' KY][\h	A]b]a i a'HYbg]Y' GhfYb[h'\Gd']WYX'FcdY	A]b]a i a'HYbg]Y' GhfYb[h'\=GC' lbgd']WYX'FcdY
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S-0.0

AS-1.0

AS-1.5

A

S-1.00 AS-1.0

AS-1.5

## 7cfh`UbX`7U[Y

7cfh`UbX`7U[Y solution combines the lightweight, abrasion resistant, and non-water-absorbing properties of HMPE fiber in a braided cover sleeve. Cortland Cage can be secured in place by splice-termination or heavy duty whipping. The open braid pattern allows inspection of Plasma® 12x12 and reduces the total weight of the wear protection. Cortland Cage offers excellent cut and abrasion resistance of all braided wear protection. In addition a proprietary polyurethane coating provides added protection in challenging marine environments.



## ?Ym`VYbYUhg`cZ`7cfh`UbX`7U[Y.

- Extra protection against cutting and abrasion
- Open braid pattern allows inspection of rope
- Proprietary polyurethane coating
- Lightweight and floats



FcdY`G]nY`fiX]Ua`YhYft		DUfh`B i a VYf		
]bW\Yg	a a	=b`9mY	C jYf` Gd`]WY	C jYf` ; fca aYh
%#( l`'#,	6-9 mm	AS-1.0	AS-1.0	AS-1.5







