DONAGHYS
PERFORMANCE FIRST

DONAGHYS winchline

Installation Guide

Stealth® UHMwPE 12 Strand Braid

FEATURES/ BENEFITS

- Extreme strength to weight ratio
- UHMwPE is 15 times stronger than steel wire rope
- High UV and chemical resistance
- Floats and does not absorb water
- Low creep
- Lightweight, flexible, with minimal elongation and recoil
- Will not kink
- Easy to splice
- Urethane coating for added abrasion resistance and reduces slipping on bare surfaces
- Long continuous lengths available which removes waste factors and enhances hauling/winch lines integrities

APPLICATIONS

- Strops and Slings
- Winch lines
- 4x4 Winch ropes
- Vehicle rescue/recovery
- Mining
- Logging applications
- Towing line
- Pulling/stringing lines
- Marine applications

RANGE

- 0.31 tonne - 788 tonne
- Other tonnages are available in accordance with customer specification

FIBRE CHARACTERISTICS

Fibre type	Description	Specific gravity	Sensitive to	Resistant to	Heat reaction	Strength and elongation
Polyester	Continuous Filament	1.38	Alkalis, Phenolic Compounds, Sulfuric Acid.	Most Organic and Mineral Acids, Solvents, Bleaches and Oxidizing Agents.	Softens 228°C, Melts 255°C.	Equivalent wet/ dry strength ratio. Elongation 35% at Break.
Stealth® Ultra High Molecular Weight Polyethylene **(UHMwPE)**	Continuous Filament	0.97g/cm3	Strong oxidizing agents, Chlorosulfonic and Nitric acids at high temperatures. Slightly affected by Sodium Hydroxide (pH > 14).	Most acids and alkalis, cold alcohols, ethers, esters, ketones and bleaches.	Softens 144°C. Mets 152°C.	Equivalent wet/ dry strength ratio. Elongation 4% at Break.

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Splicing Instructions

RANGE

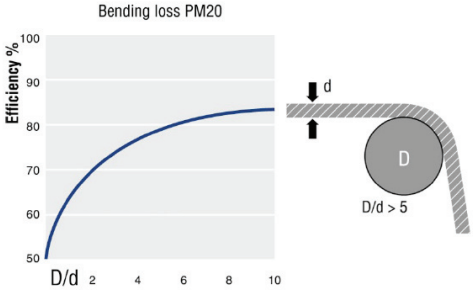
Product Code	Diameter (mm)	Unspliced Strength (metric tonnes)	MBL Spliced Strength (metric tonnes)	Weight /100m (kg)
RBRS01WAM	1	0.32	0.29	0.15
RBRS015WAM	1.5	0.51	0.46	0.25
RBRS0175WAM	1.75	0.64	0.58	0.31
RBRS02WAM	2	1.02	0.91	0.49
RBRS025WAM	2.5	1.2	1.1	0.5
RBRS03WAM	3	1.4	1.3	0.7
RBRS04WAM	4	2.4	2.2	1.2
RBRS05WAM	5	3.4	3.1	1.7
RBRS06WAM	6	4.8	4.3	2.5
RBRS07WAM	7	5.8	5.2	3.0
RBRS08WAM	8	7.3	6.6	3.7
RBRS09WAM	9	9.2	8.3	4.7
RBRS10WAM	10	10.8	9.7	5.4
RBRS11WAM	11	13.0	11.7	6.4
RBRS12WAM	12	17.0	15.3	8.4
RBRS14WAM	14	19.9	17.9	10.4
RBRS16WAM	16	25.6	23.0	14.3
RBRS18WAM	18	34.8	31.3	19.2
RBRS20WAM	20	41.3	37.2	25.1
RBRS22WAM	22	45.8	41.2	30.1
RBRS24WAM	24	55.0	49.5	35.0
RBRS26WAM	26	67.8	61.0	40.9
RBRS28WAM	28	76.7	69.0	47.3
RBRS30WAM	30	87.4	78.7	53.2
RBRS32WAM	32	94.0	84.6	62.1

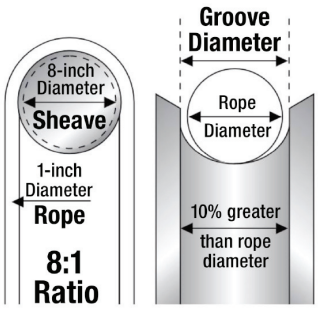
Product Code	Diameter (mm)	Unspliced Strength (metric tonnes)	MBL Spliced Strength (metric tonnes)	Weight /100m (kg)
RBRS34WAM	34	103.3	93.0	65.1
RBRS36WAM	36	118.7	106.8	78.4
RBRS38WAM	38	131.1	118.0	85.8
RBRS40WAM	40	145.6	131.0	96.1
RBRS42WAM	42	158.9	143.0	103.5
RBRS44WAM	44	174.4	157.0	115.4
RBRS48WAM	48	201.1	181.0	133.1
RBRS52WAM	52	230.0	207.0	155.3
RBRS54WAM	54	238.9	215.0	168.4
RBRS56WAM	56	271.1	244.0	177.5
RBRS60WAM	60	297.8	268.0	210.7
RBRS64WAM	64	333.3	300.0	227.8
RBRS68WAM	68	370.0	333.0	295.8
RBRS72WAM	72	403.3	363.0	298.7
RBRS76WAM	76	444.4	400.0	339.0
RBRS80WAM	80	466.7	420.0	357.0
RBRS82WAM	82	507.8	457.0	395.0
RBRS86WAM	86	531.1	478.0	439.0
RBRS88WAM	88	666.7	600.0	506.0
RBRS92WAM	92	755.6	680.0	539.0
RBRS96WAM	96	825.6	743.0	591.0
RBRS104WAM	104	933.3	840.0	665.0
RBRS110WAM	110	1,018.9	917.0	740.0
RBRS112WAM	112	1,116.7	1,005.0	814.0
RBRS120WAM	120	1,220.0	1,098.0	900.0

Note: Tested in accordance with ISO 2307

TECHNICAL

Rope properties; static bending





- *To ensure maximum efficiency & safety, sheaves should be no less than 8 x the rope diameter. The sheave groove diameter should be no less than 10% greater than the rope diameter.*
- *The sheave groove should be round in shape. Sheaves with "V" shaped grooves should be avoided to prevent damaging the rope through excessive friction & crushing of the rope fibres. Sheave surface should be kept smooth and free of burrs & gouges. Bearings should be maintained to ensure smooth rotation.*