

ASTRA® LINE

PRODUCT DESCRIPTION

Astra® Line yarns are composed with a polyver core and a high grade polyester cover. This composite yarn has been proven to give excellent performance in resisting abrasion, on both the inside and the outside of Astra® Line. Its low friction leads to a decreased heat development inside the rope, giving a higher safety factor and a longer rope lifetime.

Astra® Line is available in 3 and 4 strand construction as well as in 8 strand plaited construction.

Apart from general mooring and towing applications, Astra® Line is also used very successfully in offshore applications such as SPM's (single point mooring systems).

Also various navy's use Astra® Line on board their vessels.

APPLICATIONS

Winch lines
Mooring lines
Towing lines



Courtesy Smit International

MAIN CHARACTERISTICS

Material:	composite yarns (polyester-polyver)
Construction:	3, 4 strand and 8 strand plaited
Specific Gravity:	1.14
Melting point:	260 °C / 165 °C
Breaking strength:	equal dry and wet
Approx. elongation (broken-in)	
at 20 % M.B.L	3,8 %
at 50 % M.B.L	7,7 %
at break	14,8 %
Production and Construction:	Based on ISO 10556
Testing method:	Based on OCIMF guidelines

MAIN CHARACTERISTICS

- **Excellent U.V. resistance**
- **Very low snap-back**
- **Do not absorb water**
- **Excellent resistance to abrasion**
- **Excellent resistance to fatigue**
- **High friction resistance**

ASTRA® LINE

3 Strand Astra® Line ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
0,75	6	2	7,2	0,73
1	8	3,8	13,5	1,38
1,25	10	5,5	20	2,04
1,5	12	8	28,8	2,94
1,75	14	10,9	39,4	4,02
2	16	14,1	51	5,2
2,25	18	17,8	64,7	6,6
2,5	20	22,1	79,4	8,1
2,75	22	26,8	96,1	9,8
3	24	31,9	116	11,8
3,25	26	37,6	133	13,6
3,5	28	43,4	152	15,5
3,75	30	49,9	172	17,5
4	32	56,5	192	19,6
4,5	36	71,4	239	24,4
5	40	88,4	288	29,4
5,5	44	108	344	35,1
6	48	127	404	41,2
6,5	52	150	470	47,9
7	56	172	538	54,9
7,5	60	197	610	62,2
8	64	224	699	71,3

Others sizes available upon request.
MBL values are on unspliced condition according to ISO 2307

ASTRA G55 8 Strand ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
3,5	28	43	181	18,5
3,75	30	49,5	207	21,1
4	32	56,5	234	23,9
4,5	36	71,5	294	30
5	40	88	360	36,7
5,5	44	107	432	44,1
6	48	127	512	52,2
6,5	52	149	596	60,8
7	56	173	688	70,2
7,5	60	198	786	80,1
8	64	225	890	90,8
9	72	285	1118	114
10	80	352	1363	139
11	88	426	1648	168
12	96	507	1942	198
13	104	595	2265	231
14	112	690	2618	267
15	120	792	2981	304
16	128	901	3383	345
17	136	1017	3795	387
18	144	1141	4246	433
19	152	1271	4707	480
20	160	1408	5198	530
21	168	1552	5707	582

Others sizes available upon request.
MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK

