

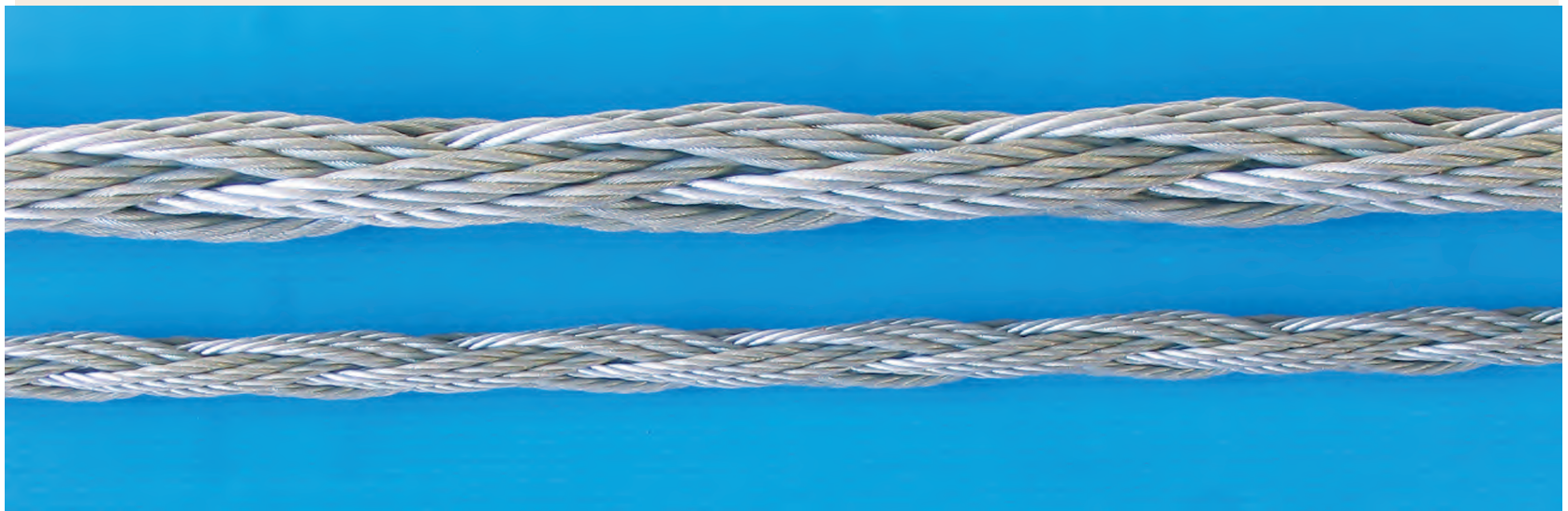
ANDROMEDA

Plaited and
Woven Division

Brochure # 052-10
Superflex Cable -
incl. technical sheets
052-11, 12, 13

SUPERFLEX CABLES

SPECIFICATION SHEET for DISTRIBUTORS



Plaited steel cables made especially for assembly into extra flexible slings

including

DIMENSIONS for ASSEMBLY

for SUPERFLEX
SINGLE SLINGS and SUPERFLEX STROPS

This product is manufactured by:

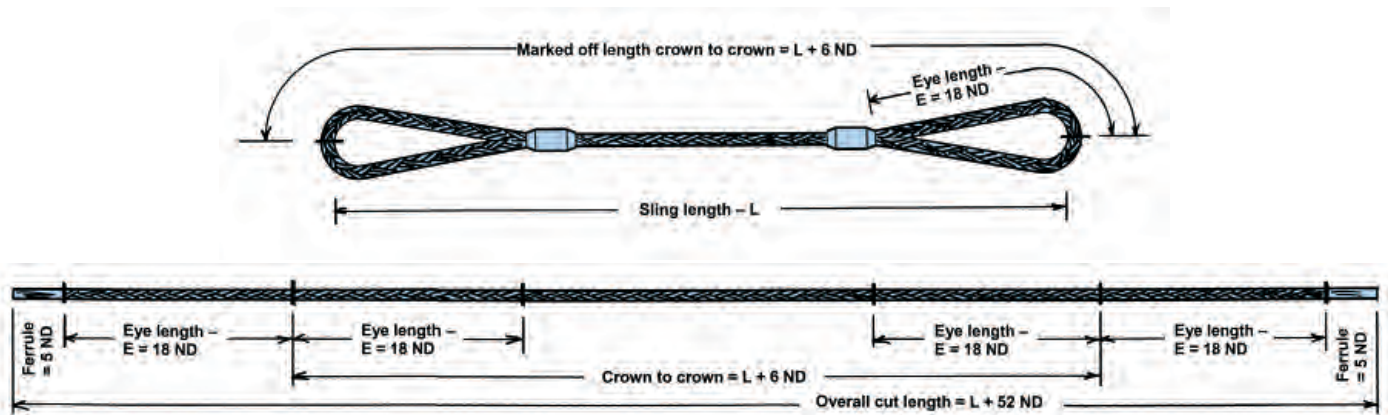
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SUPERFLEX - (single fall) - SLINGS — Dimensions for assembly

Cable size	Cable nominal dia. mm ND	Ferrule Length of cable for fitting, and the length required out the end			Sling single ply of cable		Stamping and Testing (single fall)			Quantity of cable to make up a sling = length of sling "L" PLUS
		Ferrule size EN - 13411 spec	Length for ferrule 5 ND F	Cable out end of ferrule 0.5 ND	Eye mark off 18 ND E	Mark off crown to crown L + 6 ND	WLL of the cable kN	SWL to stamp in sling tonnes	Proof load to apply kN	
Two-0	8	8	40	4	150	L + 48	6.0	0.6	12	420
Two-5	10	10	50	5	180	L + 60	10	1.0	20	510
Three-0	12	12	60	6	220	L + 72	15	1.4	30	620
Three-5	14	14	70	7	250	L + 84	19	1.8	38	710
Four-0	16	16	80	8	290	L + 96	25	2.4	50	830
Four-5	18	18	90	9	320	L + 108	31	3.0	62	910
Five-0	20	20	100	10	360	L + 120	42	4.0	84	1020
Six-5	26	26	130	13	470	L + 156	67	6.5	134	1330
Eight-0	32	32	170	17	600	L + 204	106	10.3	212	1700
Ten-0	40	40	210	21	800	L + 252	156	15.3	312	2300

Marking off the cable for Superflex single sling assembly



This marking out procedure is recommended to attain uniformity in length of Superflex slings between the various assemblers in Australia. It is the system used by us for over thirty years in our own workshops, and has stood the test of time.

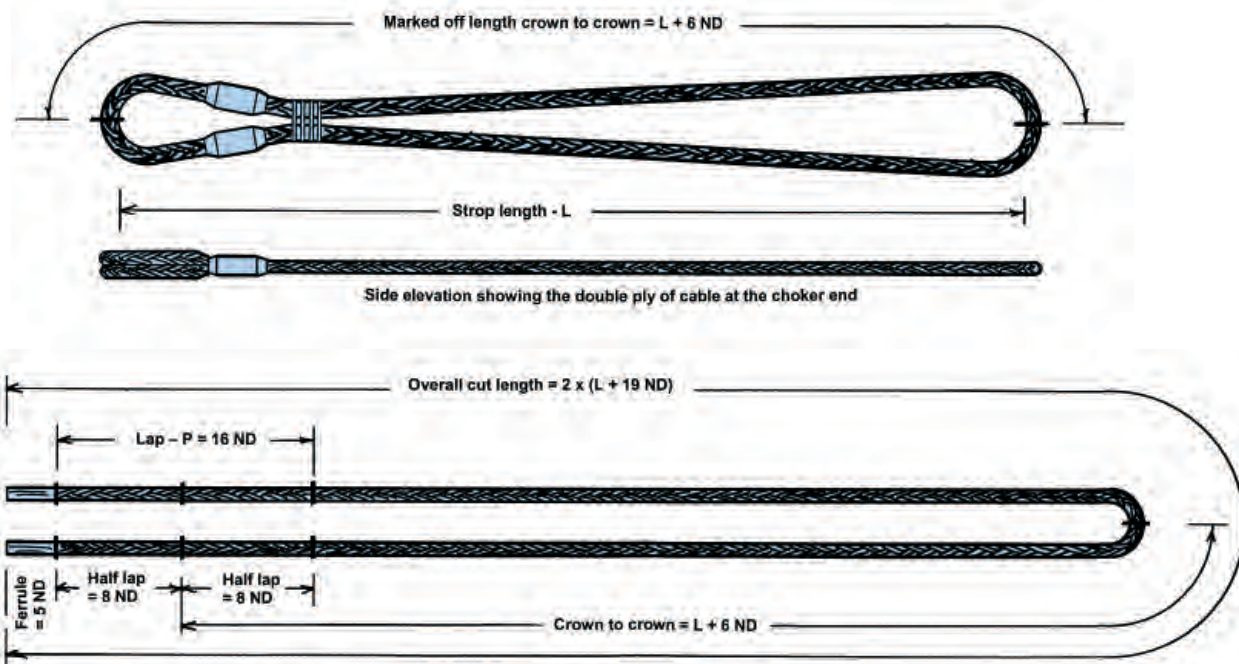
The basic unit for establishing the various ratios is the Nominal Diameter (ND) of the cable. This is equivalent to the size of ferrule which fits the cable. (EN specification). All dimensions are in millimetres.

Notes on the preparation of ferrules: For Superflex cable it is best to squeeze the ferrules slightly less oval. Even so, sometimes the cables are difficult to fit into the ferrules. In this case it is best to bind the cable (with glass tape) about half a ferrule-length from the end, and permit the cable to unlay in this section. If they are still difficult to fit, it is permissible to use ferrules ONE SIZE larger – e.g. for Five-0 it may be easier to fit 22 mm ferrules instead of the standard 20 mm

SUPERFLEX STROPS — Dimensions for assembly

Cable size	Cable nominal dia. mm ND	Ferrule			Strop			Stamping and Testing		
		Length of cable for fitting, and the length required out the end			two plies of cable			applied to straight line pull		
		Ferrule size DIN spec	Length for ferrule 5 ND F	Cable out end of ferrule 0.5 ND	Half lap 8 ND	Full lap 16 ND P	Mark off crown to crown L + 6 ND	WLL of single fall of cable kN	SWL to stamp in sling tonnes	Proof load to apply kN
Two-0	8	8	40	4	64	128	L + 48	6.0	0.8	16
Two-5	10	10	50	5	80	160	L + 60	10	1.5	30
Three-0	12	12	60	6	96	192	L + 72	15	2.2	45
Three-5	14	14	70	7	112	224	L + 84	19	2.8	57
Four-0	16	16	80	8	128	256	L + 96	25	3.6	75
Four-5	18	18	90	9	144	288	L + 108	31	4.5	93
Five-0	20	20	100	10	160	320	L + 120	42	6.0	126
Six-5	26	26	130	13	208	416	L + 156	68	10.0	204
Eight-0	32	32	170	17	272	544	L + 204	106	15.6	318
Ten-0	40	40	210	21	336	672	L + 252	156	22.9	468

Marking off the cable for Superflex strop sling assembly



For unusual configurations, or general assistance in assembling Superflex Slings,
phone Andromeda on 02 6760 3773








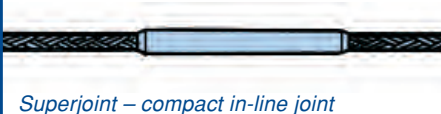
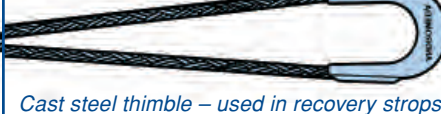



SUPERFLEX PLAITED STEEL CABLES —miscellaneous technical information —

Some of the physical properties of Superflex cable before it is made into slings.									
Cable nominal size	Minimum breaking force (MBF) kN	Mass per 100 metres – kg	WLL on single fall of cable – kN	Nominal diameter (ND) - mm	Sides of enclosing square – mm	Volume per metre – litres (l/m)	Maximum length made in PM3 – m	Free breaking length – m	Notes
Two-0	30	20	6.0	8	9x9	0.081	4000	15000	
Two-5	50	31	10	10	11x11	0.121	3000	16200	
Three-0	75	47	15	12	13x13	0.169	2500	16000	
Three-5	95	60	19	14	15x15	0.225	2000	15900	
Four-0	125	79	25	16	17x17	0.289	1500	15900	
Four-5	157	100	31	18	19x19	0.361	1200	15700	
Five-0	210	131	42	20	21x21	0.441	900	16100	
Five-5	270	168	54	22	24x24	0.576	650	16100	Nonstandard
Six-5	340	212	68	26	28x28	0.784	500	16100	
Eight-0	530	337	106	32	36x36	1.29	320	15800	
Ten-0	780	499	156	40	46x46	2.12	200	15700	

Notes: The Five-5 cable is **not a standard size**, but sometimes is available. The **volume per metre** is included for calculating reel sizes.

TERMINATION OF SUPERFLEX CABLES

Shown below are various termination methods for Superflex Cables. Some of these have been developed by Andromeda over the years for specific applications, and have become standard processes.

Termination methods based on the <i>standard alloy ferrule</i> conforming to EN-13411 (single swage technology)	Termination systems based on <i>double swage technology</i> developed by Andromeda. In this process the fittings are ALL STEEL	
	Terminations for single fall cables	Terminations for two fall cables (eg for straps or flat woven slings)
 <i>Turn-back eye – soft eye</i>	 <i>Swaged steel ferrule – soft eye</i>	 <i>Tubular thimble – formed after fitting cable</i>
 <i>Turn-back eye — thimbled</i>	 <i>Bifurcated steel eye</i>	 <i>“U” termination”– used for straps and FWS</i>
 <i>Lapped joint</i>	 <i>Superjoint – compact in-line joint</i>	 <i>Cast steel thimble – used in recovery straps</i>
 <i>Lapped joint terminating a strap sling</i>	 <i>Reserved for future developments</i>	 <i>Reserved for future developments</i>
Notes: Identification – Stamping is usually direct into the ferrule.	Notes: Identification – In these processes, stamping and other ID is usually done with strongly attached tags	