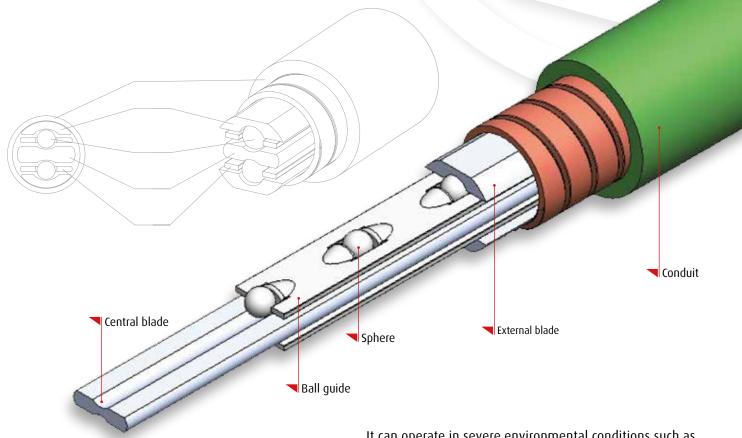
FLEXBALL CABLES

The Flexball cable, recognizable from the green colour of the plastic cover, is an extremely flexible and sliding cable. It has a very reliable and robust construction which guarantees very high performances. If mounted properly, it will last "for ever".



It's efficiency is highly better than any traditional push-pull cable. The Flexball cable maintains high mechanical efficiency and very low backlash which approaches to zero, even in complex routings and difficult installations. Flexball cable can be spatially laid on all the three dimensions with low bending radii and 97% efficiency, also under heavy loads.

It works reliably and without interruption, even at lengths over 60 meters. No maintenance or lubrication is necessary. It is indifferent to changes of temperature. It can operate in severe environmental conditions such as moisture, condensation or icing, without impact on performance. For standard cables the working temperature is 108 °C but special cable versions can work up to 200 °C degrees.

It can transfer linear movements with a stroke up to 300 mm. The ball-bearing principle enables a smooth movement, low play and delay-free transfer of loads which can reach 15000 N in push and 25000 N in pull operation mode.



CONSTRUCTION

Ball bearing controls have an inner blade which is held between two rows of ball bearings by two outer blades, and all is contained in a high strength outer casing.

Stainless steel inner components guarantee an optimal lifetime with high fatigue resistance in any working condition.

Terminal and end fittings can be made of steel, stainless steel or brass.

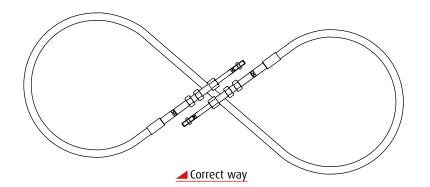
APPLICATION

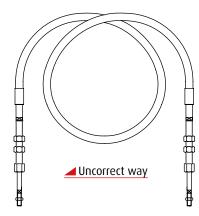
Ball bearing controls are generally used in applications with long routings and high tension and compression.

The **Flexball cable** is manufactured in lengths ready to install. It replaces complex solid rods, hydraulic, pneumatic or electric transfer devices.

HOW TO HANDLE AND STORE

The **Flexball cable** is delivered in a proper box and bent with an "8" shape to respect its minimum bending radius. Once received, it should be opened and stored as a straight line. If not possible, just leave it in the box like you have received it. Flexball cable must not be stored in circle, otherwise it can be seriously damaged.



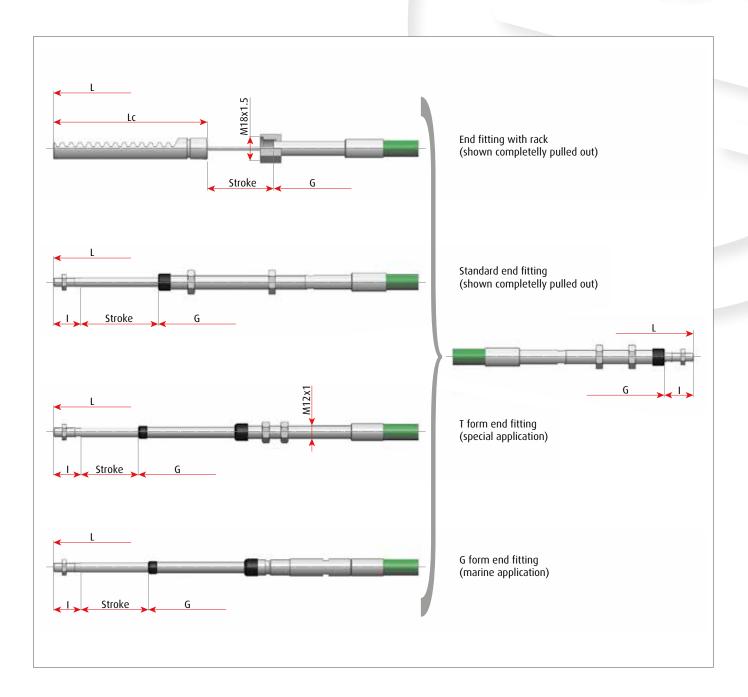




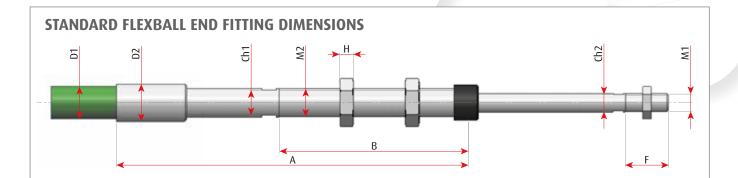
PRODUCT RANGE

The **Flexball cable** is available in different sizes, from type 55 which has a conduit diameter of 9.5 mm, to type 160 that has a conduit diameter of 24.3 mm.

The Flexball cables are available with several types of end fittings to fit the different application requirements.







FLEXBALL CABLES > 4 di 4

Cable type	e type	Stroke	Α	B	ш	н	_	Ch1	Ch2	D1		D2		M1	M2	۲C	Rack module (mm)	Push load (N)	Pull load (N)	Bending radius (mm)	Weight per meter (gr)	Ē
	Cable	Str								AN*	ACP*	AN	ACP		~~		Rack mo	Push I	Pull lo	Bending n	Weight pe	
55		50	130	55		5	26	8	5	9.5	12	12	14	M6x1(M5x0.8)	M10x1	126			800	100	245	0.3
	55	70	145	70	20											154	1.5	300				
		100	175	100												178						
		50	142	55	30	8	37	11	6	11	12.8	13	15	M7x1(M6x1)	M12x1	126		1550	_	120	320	0.18
		70	157	70												154		1550				
7	70	100	187	100												178	1.5	1400				
		150	237	150												225		600				
		200	292	170												276		250				
		50	163	70	30	8	37	14	9	14.3	16.5	16	19	M10x1.5	M16x1.5	126		2700	5000	140	518	0.15
		70	183	90												154		2700				
9	95	100	213	120												178	1.5	2500				
		150	263	170												225		1400 600				
		200	313	220												276						
		50	195	70	35	9	45	17	11	17	21	20	24	M12x1.5	M18x1.5	-	1.5	5300	10000	200	827	0.05
		70	215	90												-						
1	25	100	245	120												-		5000				
		150	295	170												295		2500				
		200	345	210												345		1200				
		50	240	100	35	10	45	21	13		24.3		28	M14x1.5	M22x1.5		-	6500	15000	250	1280	0.03
		70	260	120														0300				
		100	290	150														6000				
1	60	150	340	200												-		3000				
		200	390	250														1500				
		250	440	300														1400				
		300	490	350														1400				

Notes:

• AN: standard cable coating • ACP: reinforced cable coating • Cable's elongation (mm): Cable's length (m) x Applied Load (N) x E_c x 0.01

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