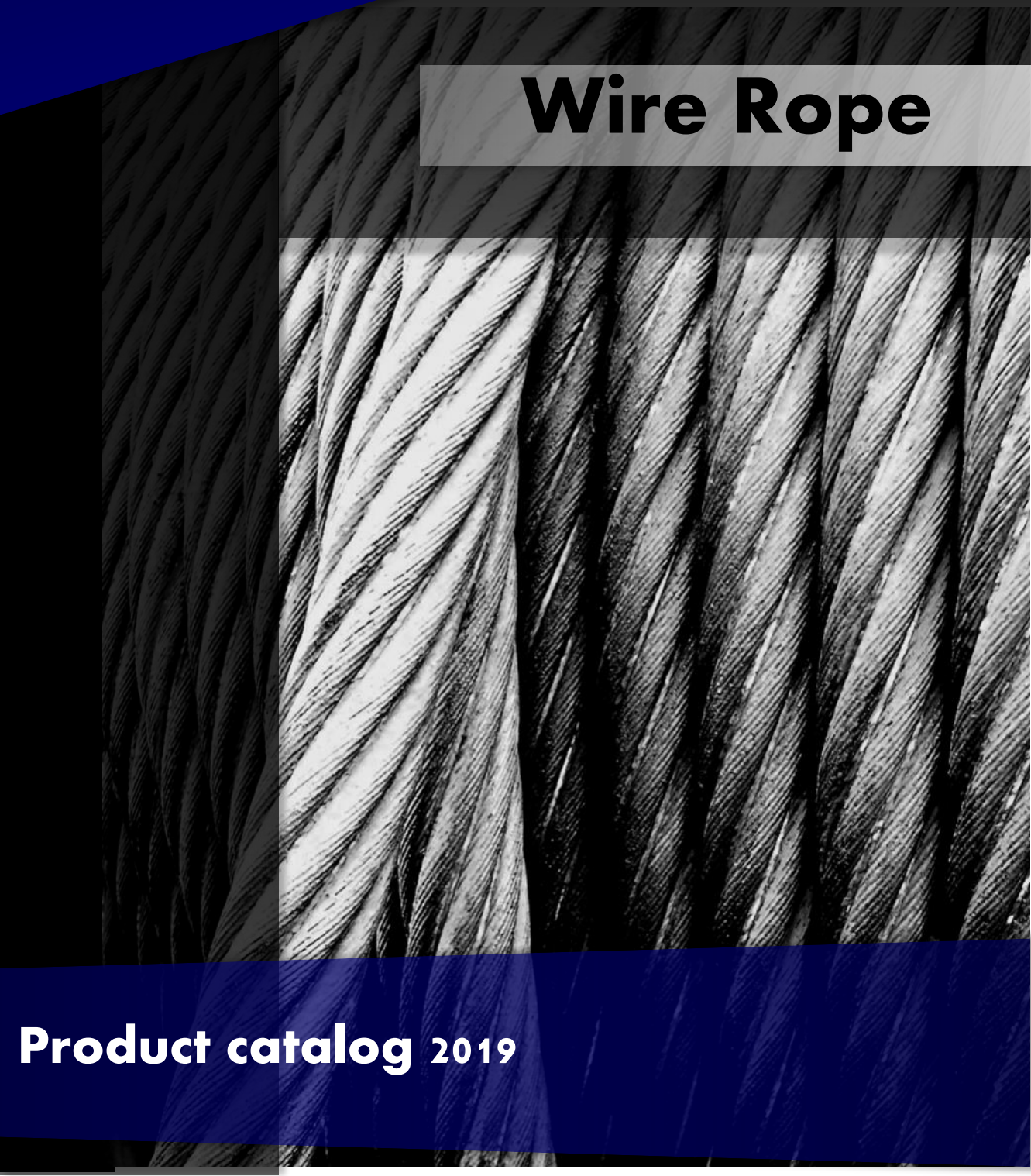
Bär-Zin

Wire rope & Sling Company

Wire Rope



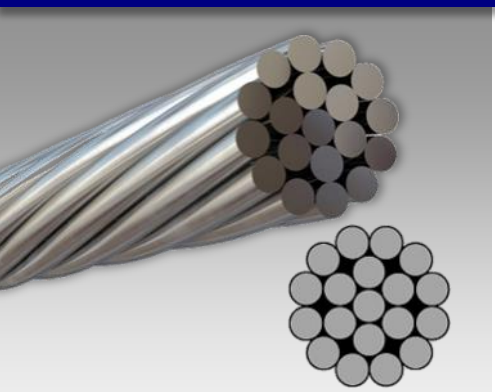
Product catalog 2019

Bär-Zin

Wire rope & Sling Company

Technical Data
Galvanized-Steel

Galvanized steel wire rope 1x19 (1+6+12)



Characteristics and uses :

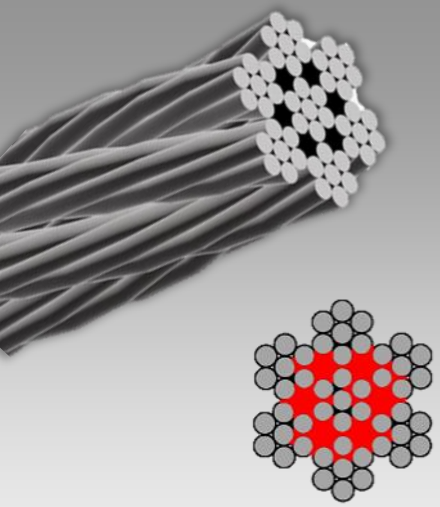
semi-rigid transmission cable (brakes, etc...) small bracing and drawing of lines

Grade of steel: galvanized

Tolerance on diameter: -1% +4%

CODE	G119-1	G119-1.2	G119-3	G119-6	G119-8	G119-10
cable diameter mm	1	1.2	3	6	8	10
weight/meter kg	0.005	0.005	0.045	0.18	0.315	0.49
minimum breaking load kg	95	160	851	3400	6050	9450

Galvanized steel wire rope 7x7 (1+6)



Characteristics and uses :

Flexible cable, very resistant

Small diameters: all purposes;

Large diameters: cross wiring for rigging, wiring lang for scrapers, truck cranes, draw lines and cable carriers

The most common cables are defined in the table below, other features are on request

Grade of steel: galvanized

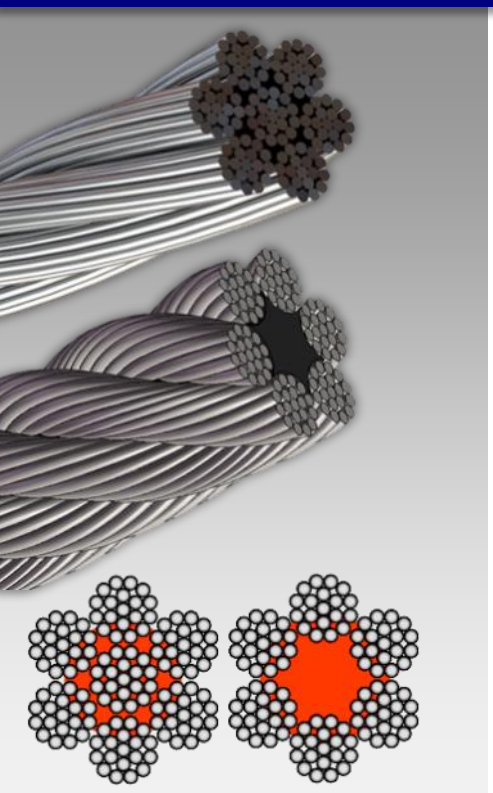
Central core: metallic

Strength of steel: 180 kg/mm2

Tolerance on diameter: -1% +4%

CODE	G77-1.5	G77-2	G77-2.5	G77-3	G77-4	G77-5	G77-6
cable diameter mm	1.5	2	2.5	3	4	5	6
weight/meter kg	0.009	0.015	0.26	0.34	0.061	0.095	0.137
minimum breaking load kg	140	330	520	720	1260	1780	2580

Galvanized steel wire rope 6x19 & 7x19



Metal core 7X19 Textile core 6X19

Characteristics and uses :

Cables for crane trolleys, small hoists, winches, skips, ski lifts, slings, and other uses.

The most common cables are defined in the table below, other features are on request

Grade of steel: galvanized

Central Core: follow table below

Strength of steel: follow table below

Tolerance on diameter: -1% +4%

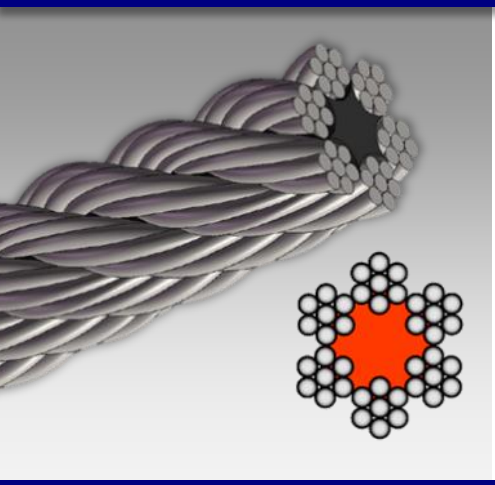
6 strands of 19 threads - textile core

CODE	A619	B619	C619	D619	E619	F619	G619	H619	I619	J619	K619	M619	N619
cable diameter mm	3	4	5	6	7	8	9	10	11	12	13	14	16
strength of steel kg/mm2	180	180	180	180	180	180	180	180	180	180	180	180	180
weight/meter kg	0,03	0,054	0,084	0,121	0,171	0,215	0,272	0,336	0,406	0,483	0,567	0,658	0,859
minimum breaking load kg	500	890	1380	2000	2710	3550	4490	5540	6710	7980	9370	10900	14200

7 strands of 19 threads - metal core

CODE	A719	B719	C719	D719	E719	F719	G719	H719	I719	J719	K719	M719	N719
cable diameter mm	3	4	5	6	7	8	9	10	11	12	-	14	16
strength of steel	200	200	200	200	200	180	200	200	180	180	-	180	180
weight/meter kg	0,033	0,059	0,092	0,133	0,181	0,236	0,299	0,363	0,500	0,600	-	0,793	1,040
minimum breaking	720	1270	1880	2730	3250	4240	5370	6630	7770	9550	-	12950	16940

Galvanized steel wire rope Textile Core 6X7 Threads



Characteristics and uses :

Cables for all uses, EXCEPT LIFTING and PULLING

Grade of steel: Galvanized

Central core: Textile

Strength of steel: 180kg/mm2

Tolerance on diameter: -1% +4%

CODE	AG67	BG67	CG67	DG67	EG67	FG67
cable diameter mm	2	2,5	3	4	5	6
weight/meter kg	0,013	0,022	0,035	0,050	0,087	0,132
minimum breaking load kg	239	400	538	957	1500	2150

Galvanized steel wire rope (coils)

Characteristics and uses :

Cable for all uses

Grade of steel: Galvanized

Central core: Metal

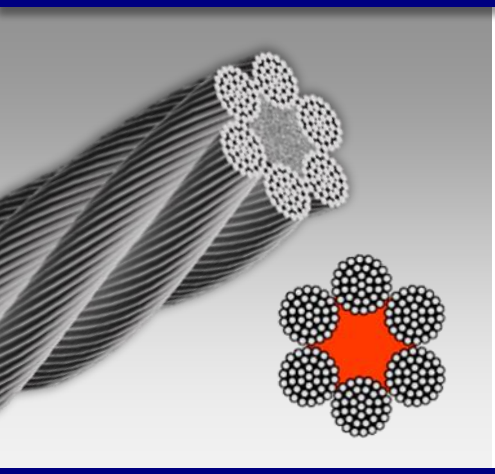
Strength of steel: 180kg/mm2

Tolerance on diameter: -1% +4%

Coils of 25, 50 or 100 meters

CODE	CG1.5	CG2	CG2.5	CG3	CG4	CG5	CG6
cable diameter mm	1.5	2	2.5	3	4	5	6
weight/meter kg	0.009	0.015	0.26	0.34	0.061	0.095	0.137
minimum breaking load kg	140	330	520	720	1260	1780	2580

Galvanized steel wire rope 6x37 (1+6+12+18)



Characteristics and uses :

cable for usual lifting, slings, lashings,, moorings and miscellaneous handling

Grade of steel: Galvanized

Central core: Textile

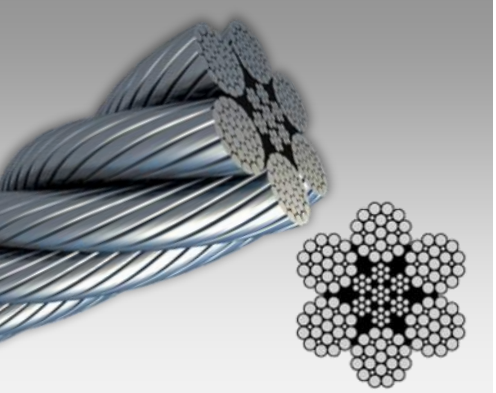
Strength of steel: 180kg/mm2

Tolerance on diameter: -1% +4%

CODE	8G637	9G637	10G637	11G637	12G637	13G637
cable diameter mm	8	9	10	11	12	13
weight/meter kg	0,215	0,272	0,336	0,406	0,483	0,567
minimum breaking load kg	3400	4300	5310	6420	7640	8970

CODE	14G637	16G637	18G637	20G637	22G637	24G637	26G637	28G637
cable diameter mm	14	16	18	20	22	24	26	28
weight/meter kg	0,658	0,859	1,09	1,34	1,62	1,93	2,27	2,65
minimum breaking load kg	10400	13600	17200	21200	25700	30600	35900	41600

Galvanized steel wire rope 6x25 « filler »



Characteristics and uses :

Cable for mechanical shovels, scrapers, bulldozers, skips, winches, forests, gravel, usable as sling skidding choker

Grade of steel: Clear

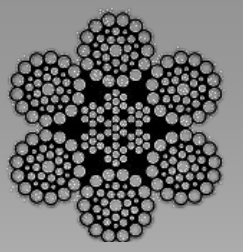
Central core: Metal

Strength of steel: 180 kg/mm2

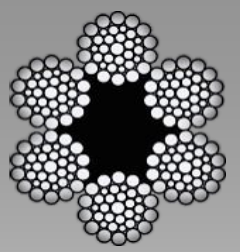
Tolerance on diameter: -1% +4%

CODE	AG625	BG625	CG625	DG625	EG625	FG625	GG625	HG625	IG625	KG625
cable diameter mm	10	11	12	13	14	16	18	20	22	24
weight/meter kg	0,398	0,482	0,573	0,673	0,78	1,02	1,29	1,59	1,93	2,29
minimum breaking load kg	6580	7960	9450	11100	12900	16800	21300	26300	31800	37900

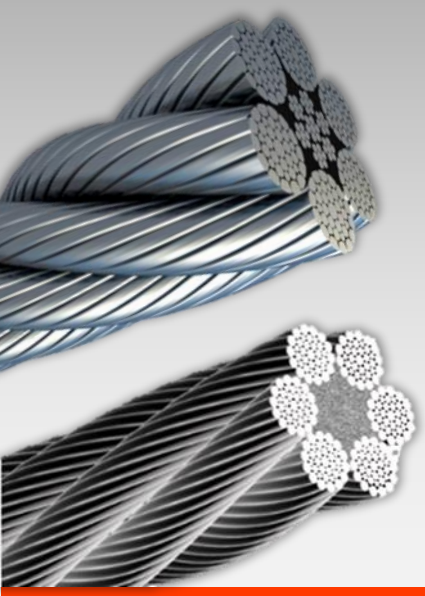
Galvanized steel wire rope 6x36 «Warrington seale» (1+7+7/7+14)



Metal core



Textile core



Characteristics and uses :

Cable for cranes, hoists, winches, porticoes, skips, dredging, forest exploitation

The most common cables are defined in the table below, other features are on request

Grade of steel: Galvanized

Central core: follow table below

Strength of steel: 180 kg/mm2

Tolerance on diameter: -1% +4%

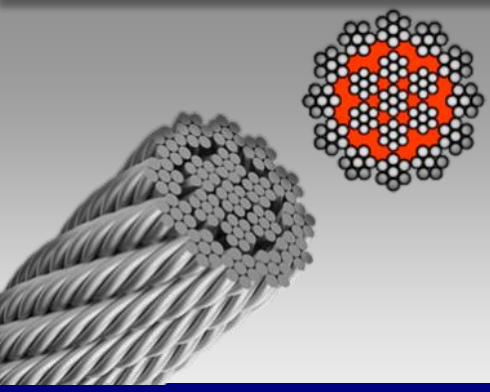
textile core

CODE	ATG636	BTG636	CTG636	DTG636	ETG636	FTG636	GTG636	HTG636	ITG636	JTG636
cable diameter mm	13	14	16	18	20	22	24	26	28	30
weight/meter kg	0,623	0,723	0,944	1,19	1,48	1,78	2,12	2,49	2,89	3,32
minimum breaking load kg	0	11700	15200	19300	23800	28800	34300	40200	46700	53600

metal core

CODE	AEG636	BEG636	CEG636	DEG636	EEG636	FEG636	GEG636	HEG636	IEG636	JEG636
cable diameter mm	13	14	16	18	20	22	24	26	28	30
weight/meter kg	0,686	0,795	1,04	1,31	1,62	1,96	2,34	2,74	3,18	3,65
minimum breaking load kg	0900	12600	16500	20800	25700	31100	37000	43500	50400	57800

Non-rotating galvanized steel wire rope 19x7 (1+6)



Characteristics and uses :

nonrotating flexible cable for tower cranes, mobile cranes, cranes of less than 4 legs and hoists

Grade of steel: Galvanized

Central core: Metal

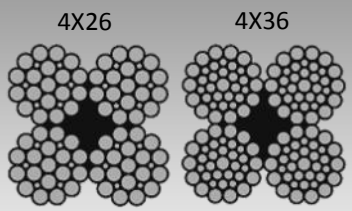
Strength of steel: follow table below

Tolerance on diameter: -1% +4%

CODE	4G197	4.5G197	5G197	6G197	6.5G197	7G197	7.5G197	8G197	9G197
cable diameter mm	4	4,5	5	6	6,5	7	7,5	8	9
strength of steel kg/mm²	180	180	180	180	200	180	200	200	200
weight/meter kg	0,064	0,07	0,094	0,162	0,166	0,20	0,225	0,250	0,306
minimum breaking load kg	1100	1450	1815	2500	2950	3380	3690	4400	5850

CODE	10G197	11G197	12G197	13G197	14G197	16G197	17G197	18G197	19G197
cable diameter mm	10	11	12	13	14	16	17	18	19
strength of steel kg/mm²	200	180	180	200	180	180	180	200	200
weight/meter kg	0,402	0,495	0,561	0,679	0,813	0,975	1,16	1,309	1,45
minimum breaking load kg	7100	7930	9500	11100	12845	17500	19500	21200	25000

Galvanized steel wire rope for pulling hoist 4X26 & 4X36



Characteristics and uses :

selection of 3 wire rope for pulling hoist

Grade of steel: galvanized

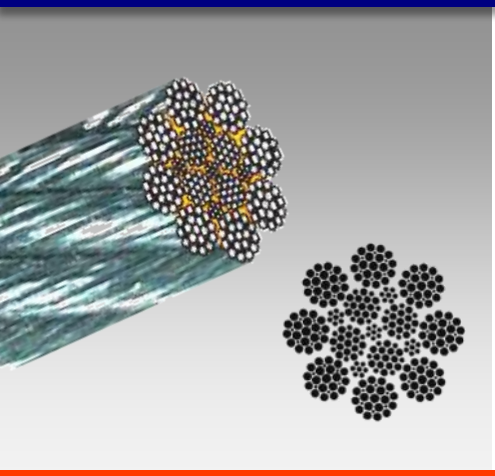
Central Core: Textile

Strength of steel: 180kg/mm2

Tolerance on diameter: -1% +4%

CODE	8.3AG4	11.5BG4	16.3CG4
cable diameter mm	8,3	11,5	16,3
composition	4 x 26	4 x 26	4 x 36
weight/meter kg	0,282	0,523	1,07
minimum breaking load kg	4600	8480	15850

8 strands double-parallel steel wire rope multi-layer



Characteristics and uses :

Electric hoist and crane ideal for multi-layer winding

Grade of steel: Galvanized

Central core: Metal

Strength of steel: 200kg/mm2

Tolerance on diameter: -1% +4%

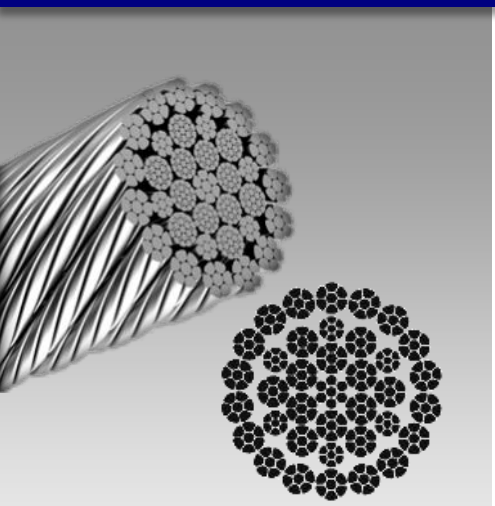
8 strands of 26 threads

CODE	10G826	11G826	12G826	13G826	14G826
cable diameter mm	10	11	12	13	14
metal sections mm²	50	60	71	90	96
weight/meter kg	0,44	0,53	0,63	0,78	0,84
minimum breaking load kg	8500	10500	12500	14500	17000

8 strands of 25 threads

CODE	15G825	10G825	18G825	19G825	22G825	24G825	26G825	28G825
cable diameter mm	15	16	18	19	22	24	26	28
strength of steel kg/mm²	112	134	171	184	256	305	358	415
weight/meter kg	0,99	1,16	1,50	1,62	2,23	2,57	3,01	3,60
minimum breaking load kg	19500	22500	26000	32000	42000	50000	58500	68500

Non-rotating steel wire rope 19X7+(6x7/6x7/6x7/1x7)



Characteristics and uses :

Ideal for lifting applications on a single strand and a multi-layer winding

Composition: non-rotating 16 outer strands of 19 strands of 7 multi-mesh threads (6x7/6x7/6x7/1x7); Multi-mesh strands optimizing the load from breaking, very high, and strain resistant

Good performance for heavy loads and high speeds

Grade of steel: Galvanized

Central core: Metal

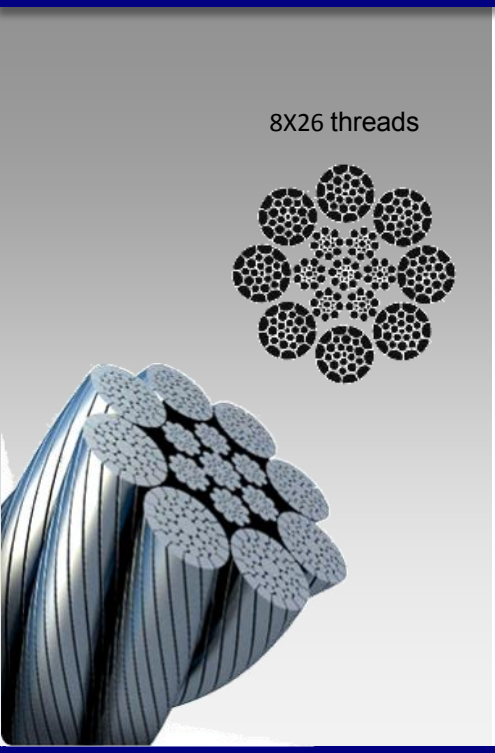
Strength of steel: follow table below

Tolerance on diameter: -1% +4%

CODE	10GC37	11GC37	12GC37	13GC37	14GC37	16GC37	17GC37	18GC37	19GC37
cable diameter mm	10	11	12	13	14	16	17	18	19
weight/meter kg	0,51	0,735	0,862	1,00	1,148	1,306	1,475	1,653	1,842
minimum breaking load kg	9320	13420	15750	18270	20970	23860	26940	30200	33650

CODE	20GC37	21GC37	22GC37	23GC37	24GC37	25GC37	26GC37	28GC37
cable diameter mm	20	21	22	23	24	25	26	28
weight/meter kg	2,041	2,25	2,47	2,70	2,939	3,189	3,45	4,00
minimum breaking load kg	37290	41110	45120	49310	53690	58260	63020	73080

8 strands steel wire rope 8X26



Characteristics and uses :

Cable resistant to dynamic loads and deflection angles

Diameter greater than 30mm: on demand

Composition: 8 strands of 26 threads

Multi-mesh strands optimizing the load from breaking, and strain resistant

Grade of steel: layer with a protection from environmental corrosion

Central core: (7 strands of 1+8+8) Metal impregnated with plastic

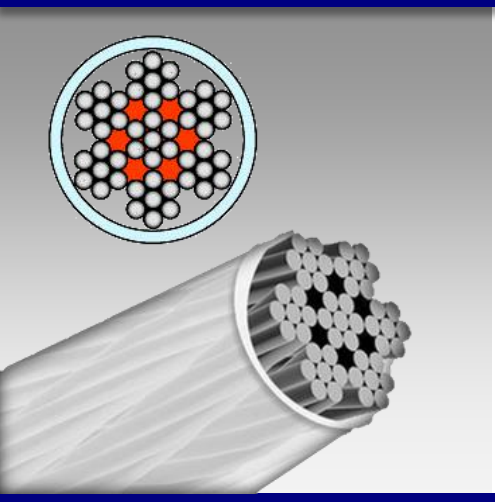
Strength of steel: follow table below

Tolerance on diameter: -1% +4%

CODE	10GC8	12GC8	13GC8	14GC8	15GC8	16GC8	18GC8	19GC8	20GC8	22GC8
cable diameter mm	10	12	13	14	15	16	18	19	20	22
weight/meter kg	0,453	0,66	0,775	0,899	1,032	1,174	1,486	1,655	1,834	2,219
minimum breaking load kg	8930	12860	15100	17500	20100	22870	28940	32250	35730	43240

CODE	24GC8	25GC8	26GC8	28GC8	29GC8	30GC8	32GC8	34GC8	36GC8
cable diameter mm	24	25	26	28	29	30	32	34	36
weight/meter kg	2,641	2,866	3,100	3,595	3,856	4,127	4,695	5,300	5,943
minimum breaking load kg	51460	55830	60390	70040	75130	80400	91480	103000	115800

Galvanized steel wire rope 7x7 - PVC coated



Characteristics and uses :

PVC coated galvanized cable for conveyors, aviation rigging, balloons, and for all uses requiring a protected cable

Grade of steel: Galvanized

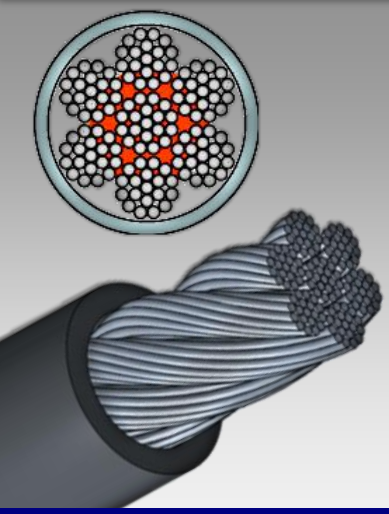
Central core: Metal

Strength of steel: 200kg/mm2

Tolerance on diameter: -1% +4%

CODE	1.5GP77	2GP77	2.5GP77	A3GP77	B3GP77	A4GP77	B4GP77
cable diameter mm	1,5	2	2,5	3	3	4	4
sheath diameter mm	2,5	3	3,5	4	5	5	6
weight/meter kg	0,013	0,021	0,035	0,041	0,05	0,07	0,081
minimum breaking load kg	140	330	530	720	720	1260	1260

Galvanized steel wire rope 7x19 - PVC coated



Characteristics and uses :

PVC coated galvanized cable for conveyors and for all uses requiring a protected cable

Grade of steel: Galvanized

Central core: Metal

Strength of steel: 200kg/mm2

Tolerance on diameter: -1% +4%

CODE	4GP719	5GP719	6GP719	8GP719	10GP719	12GP719	16GP719
cable diameter mm	4	5	6	8	10	12	16
sheath diameter mm	5	6,5	8	10	12	14	18
weight/meter kg	0,07	0,106	0,153	0,279	0,406	0,671	1,15
minimum breaking load kg	1230	1880	2730	4240	6630	9550	16448

Bär-Zin GMBH

Wire rope & Sling Company

Sterngasse 3/2/6, **A**-1010 **Vienna, Austria**

Phone: +43 (1) 532 01 80

Fax: +43 (1) 532 01 80-17

Web: **www.Barrope.com**