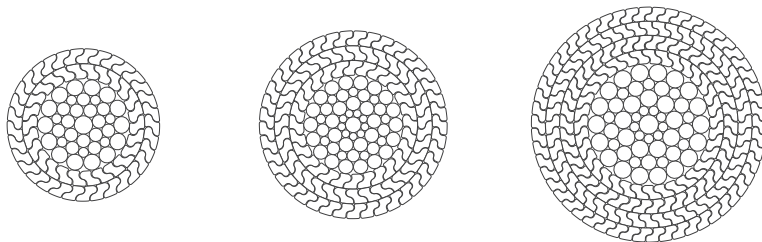


# Full Lock Coil

ArcelorMittal ROPES has developed a Full Lock Coil (FLC) track rope specifically for the highly demanding applications of aerial and passenger transportation.



FLC 2Z

FLC 3Z

FLC 4Z

The compacted and densely concentrated metallic cross section of the FLC track rope guarantees a higher breaking load whilst the outer interlocking "Z"-shaped layers give the rope a smoother profile, reducing fatigue caused by the interface between rope and sheaves and rollers.

## Features

- ▶ Bespoke design available on request.
- ▶ Parallel core available on request.
- ▶ Sacrificial coating for corrosion resistance.

Diameter mm	Section mm <sup>2</sup>	Mass kg/m	Minimum breaking load (kN)			
			1570 MPa		1770 MPa	
			Total	MBL	Total	MBL
30	601.6	5.028	975	853	1095	958
32	687.1	5.747	1113	974	1251	1094
34	778.3	6.514	1261	1103	1417	1239
36	875.2	7.330	1418	1241	1593	1394
38	977.7	8.193	1584	1386	1779	1557
40	1086.0	9.104	1759	1539	1976	1729
42	1199.9	10.063	1944	1701	2184	1911
44	1319.5	11.070	2138	1870	2401	2101
46	1444.7	12.126	2340	2048	2629	2301
48	1575.7	13.229	2553	2234	2868	2509
50	1712.3	14.380	2774	2427	3116	2727
52	1854.6	15.579	3004	2629	3375	2953
54	2002.6	16.826	3244	2839	3645	3189
56	2156.3	18.122	3493	3056	3924	3434
58	2315.6	19.465	3751	3282	4214	3688
60	2480.6	20.856	4019	3516	4515	3950
62	2651.3	22.295	4295	3758	4825	4222
64	2827.7	23.782	4581	4008	5146	4503
66	3009.7	25.318	4876	4266	5478	4793
68	3197.4	26.901	5180	4532	5819	5092
70	3390.8	28.532	5493	4806	6171	5400
72	3589.9	30.211	5816	5089	6534	5717
74	3794.7	31.938	6147	5379	6906	6043

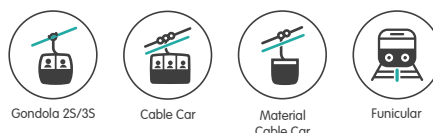
Approximate values

Please note: Other diameters with other tolerances than those illustrated can be manufactured on request.



**QUALITY**  
ArcelorMittal ROPES operates an internal DNV-Certified Quality Assurance System which complies with the requirements of ISO 9001.  
Our production plant in Bourg-en-Bresse is certified OHSAS 18001 for safety management.  
Please contact us for a full list of our international standards.

## Applications



Gondola 2S/3S

Cable Car

Material Cable Car

Funicular



## Full Lock Coil wire rope properties

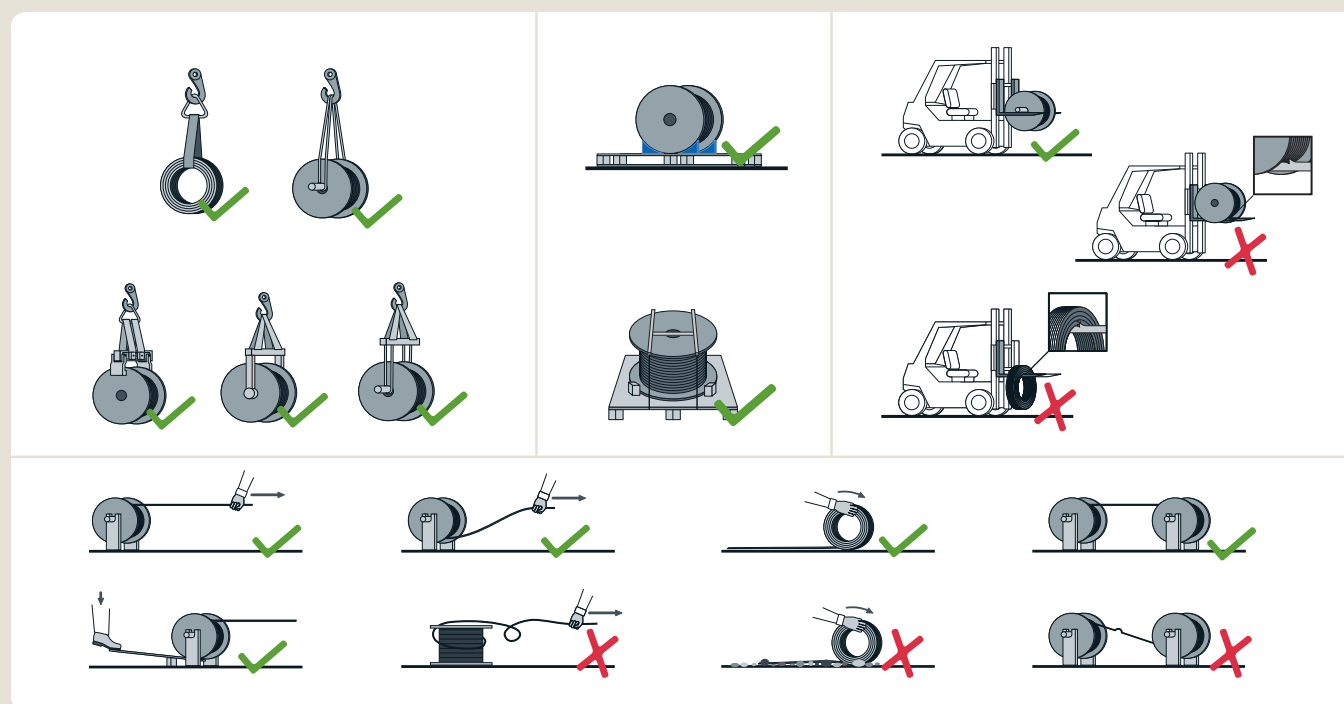
<b>Lubrication</b>	<b>Compaction</b>	<b>High Breaking Resistance</b>	<b>Resistance to Crushing</b>	<b>Bending Fatigue Resistance</b>	<b>Corzal® Wire Coating</b>	<b>Galvanised Wire Coating</b>	<b>Rotation Resistance</b>	<b>Lang Lay Rope</b>
Extends the life and increases rope performance.	Smoother outer surface with increased strength and reduced wear.	Ropes featuring a high breaking force.	Ropes designed to withstand or resist external forces.	Ropes designed to cope with bending repeatedly under stress.	Corzal® is an eutectic alloy of 95% zinc and 5% aluminium that resists corrosion up to 3 times longer than a pure zinc coating.	Zinc coating suitable for corrosive environments.	Increased wear resistance and flexibility.	Increased wear resistance and flexibility.

## Storage and maintenance

The rope must be adequately maintained and regularly lubricated, as often as it is necessary, but at least when the rope works in extreme conditions and before/after prolonged inactivity. The lubricant must be compatible with the original grease. Before re-lubrication, the wire rope must be dry and cleaned by scraping. Cleaning by cloth, cryogenic spray, high pressure cleaner and solvents are forbidden.

When stored, the rope should be kept in a dry and ventilated environment with no direct contact with the floor and an air flow under the reel. Visual inspection is necessary before the use of a stored wire rope. In case of doubt of the quality of the wire rope, we can help you to find and make additional inspection analysis.

## EWRIS handling recommendations



At all times, contact of the rope with any metallic pieces should be avoided to prevent early damage.



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## High performance Ropeway Ropes for the most demanding environments

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