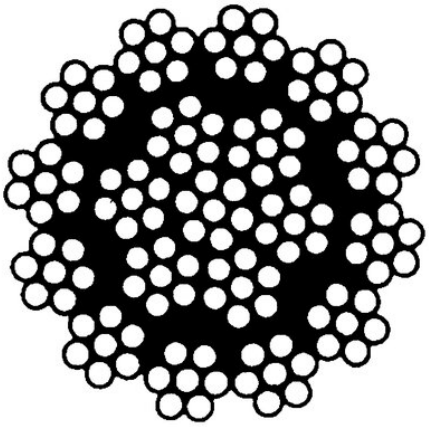
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Axel Johnson International

Steel Wire Rope 19x7 (Semi-rotation resistant)

Product information



Truck crane



Jib crane



Main- and auxiliary hoist line on mobile- and truck cranes. Often used as a single point line. Large lifting heights will require a tag line to prevent excessive spinning of the load. Smaller sizes (< 3/8”) are sometimes used on overhead cranes.
NOT recommended for construction tower cranes.

Rope characteristic: Using the rope to it’s maximum fatigue life will cause the rope to deteriorate from the inside out. Sudden rope failures may be the result. For this reason we do not recommend this construction for tower cranes. There have been fatal and catastrophic accidents involving this rope construction because of undetected inner rope fatigue.
ISO 4309 Rope Category No: All Diameters **RCN.23-1.**

... *Read more*

Rope construction: 19x7 (Semi-rotation resistant rope)
Marking: According to standard
Standard: EN 12385-4

RCN: 23-1

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Technical data

Part code	Rope diameter mm	Tensile strength N/mm²	Finish	Rope lay	Min. breaking force kN	Steel area mm²	Lubrication	Weight kg/100m
102100304050050	3	1,770	Bright	sZ	5.23	3.9	Dry	3.61
102100304250050	3	1,770	Galvanized	sZ	5.23	3.9	Dry	3.61
102100304070050	3	1,960	Bright	sZ	-	3.9	Dry	3.61
102100304270050	3	1,960	Galvanized	sZ	-	3.9	Dry	3.61
102100404050050	4	1,770	Bright	sZ	9.3	6.93	Dry	6.42
102100404250050	4	1,770	Galvanized	sZ	9.3	6.93	Dry	6.42
102100404070050	4	1,960	Bright	sZ	10.3	6.93	Dry	6.42
102100404270050	4	1,960	Galvanized	sZ	10.3	6.93	Dry	6.42
102100504050050	5	1,770	Bright	sZ	14.5	10.8	Dry	10
102100504250050	5	1,770	Galvanized	sZ	14.5	10.8	Dry	10
102100504070050	5	1,960	Bright	sZ	16.1	10.8	Dry	10
102100504270050	5	1,960	Galvanized	sZ	16.1	10.8	Dry	10
102100604050050	6	1,770	Bright	sZ	20.9	15.6	Dry	14.4
102100604250050	6	1,770	Galvanized	sZ	20.9	15.6	Dry	14.4
102100604070050	6	1,960	Bright	sZ	23.1	15.6	Dry	14.4
102100604270050	6	1,960	Galvanized	sZ	23.1	15.6	Dry	14.4
102100704050050	7	1,770	Bright	sZ	28.4	21.2	Dry	19.6
102100704250050	7	1,770	Galvanized	sZ	28.4	21.2	Dry	19.6
102100704070050	7	1,960	Bright	sZ	32	21.2	Dry	19.6
102100704270050	7	1,960	Galvanized	sZ	32	21.2	Dry	19.6
102100804050050	8	1,770	Bright	sZ	37	27.7	Dry	25.7
102100804250050	8	1,770	Galvanized	sZ	37	27.7	Dry	25.7
102100804070050	8	1,960	Bright	sZ	41	27.7	Dry	25.7
102100804270050	8	1,960	Galvanized	sZ	41	27.7	Dry	25.7
102100904050050	9	1,770	Bright	sZ	47	35.1	Dry	32.5
102100904250050	9	1,770	Galvanized	sZ	47	35.1	Dry	32.5
102100904070050	9	1,960	Bright	sZ	52	35.1	Dry	32.5
102100904270050	9	1,960	Galvanized	sZ	52	35.1	Dry	32.5
102101004050050	10	1,770	Bright	sZ	58	43.3	Dry	40.1
102101004250050	10	1,770	Galvanized	sZ	58	43.3	Dry	40.1
102101004070050	10	1,960	Bright	sZ	64	43.3	Dry	40.1

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Steel Wire Rope 19x7 (Semi-rotation resistant)

Technical data

Part code	Rope diameter mm	Tensile strength N/mm²	Finish	Rope lay	Min. breaking force kN	Steel area mm²	Lubrication	Weight kg/100m
102101004270050	10	1,960	Galvanized	sZ	64	43.3	Dry	40.1
102101104050050	11	1,770	Bright	sZ	70	52.4	Dry	49
102101104250050	11	1,770	Galvanized	sZ	70	52.4	Dry	49
102101104070050	11	1,960	Bright	sZ	78	52.4	Dry	49
102101104270050	11	1,960	Galvanized	sZ	78	52.4	Dry	49
102101204050050	12	1,770	Bright	sZ	84	62.4	Dry	58
102101204250050	12	1,770	Galvanized	sZ	84	62.4	Dry	58
102101204070050	12	1,960	Bright	sZ	93	62.4	Dry	58
102101204270050	12	1,960	Galvanized	sZ	93	62.4	Dry	58
102101304050050	13	1,770	Bright	sZ	98	73.2	Dry	68
102101304250050	13	1,770	Galvanized	sZ	98	73.2	Dry	68
102101304070050	13	1,960	Bright	sZ	109	73.2	Dry	68
102101304270050	13	1,960	Galvanized	sZ	109	73.2	Dry	68
102101404050050	14	1,770	Bright	sZ	114	84.9	Dry	79
102101404250050	14	1,770	Galvanized	sZ	114	84.9	Dry	79
102101404070050	14	1,960	Bright	sZ	126	84.9	Dry	79
102101404270050	14	1,960	Galvanized	sZ	126	84.9	Dry	79
102101504050050	15	1,770	Bright	sZ	131	97.4	Dry	90
102101504250050	15	1,770	Galvanized	sZ	131	97.4	Dry	90
102101504070050	15	1,960	Bright	sZ	145	97.4	Dry	90
102101504270050	15	1,960	Galvanized	sZ	145	97.4	Dry	90
102101604050050	16	1,770	Bright	sZ	149	111	Dry	103
102101604250050	16	1,770	Galvanized	sZ	149	111	Dry	103
102101604070050	16	1,960	Bright	sZ	165	111	Dry	103
102101604270050	16	1,960	Galvanized	sZ	165	111	Dry	103
102101804050050	18	1,770	Bright	sZ	188	140	Dry	130
102101804250050	18	1,770	Galvanized	sZ	188	140	Dry	130
102101804070050	18	1,960	Bright	sZ	208	140	Dry	130
102101804270050	18	1,960	Galvanized	sZ	208	140	Dry	130
102102004050050	20	1,770	Bright	sZ	232	173	Dry	160
102102004250050	20	1,770	Galvanized	sZ	232	173	Dry	160

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Technical data

Part code	Rope diameter mm	Tensile strength N/mm²	Finish	Rope lay	Min. breaking force kN	Steel area mm²	Lubrication	Weight kg/100m
102102004070050	20	1,960	Bright	sZ	257	173	Dry	160
102102004270050	20	1,960	Galvanized	sZ	257	173	Dry	160
102102204050050	22	1,770	Bright	sZ	281	210	Dry	194
102102204250050	22	1,770	Galvanized	sZ	281	210	Dry	194
102102204070050	22	1,960	Bright	sZ	311	210	Dry	194
102102204270050	22	1,960	Galvanized	sZ	311	210	Dry	194
102102404050050	24	1,770	Bright	sZ	334	249	Dry	231
102102404250050	24	1,770	Galvanized	sZ	334	249	Dry	231
102102404070050	24	1,960	Bright	sZ	370	249	Dry	231
102102404270050	24	1,960	Galvanized	sZ	370	249	Dry	231
102102604050050	26	1,770	Bright	sZ	392	293	Dry	271
102102604250050	26	1,770	Galvanized	sZ	392	293	Dry	271
102102604070050	26	1,960	Bright	sZ	435	293	Dry	271
102102604270050	26	1,960	Galvanized	sZ	435	293	Dry	271
102102804050050	28	1,770	Bright	sZ	455	339	Dry	314
102102804250050	28	1,770	Galvanized	sZ	455	339	Dry	314
102102804070050	28	1,960	Bright	sZ	504	339	Dry	314
102102804270050	28	1,960	Galvanized	sZ	504	339	Dry	314
102103004050050	30	1,770	Bright	sZ	523	390	Dry	361
102103004250050	30	1,770	Galvanized	sZ	523	390	Dry	361
102103004070050	30	1,960	Bright	sZ	579	390	Dry	361
102103004270050	30	1,960	Galvanized	sZ	579	390	Dry	361
102103204050050	32	1,770	Bright	sZ	594	443	Dry	411
102103204250050	32	1,770	Galvanized	sZ	594	443	Dry	411
102103204070050	32	1,960	Bright	sZ	658	443	Dry	411
102103204270050	32	1,960	Galvanized	sZ	658	443	Dry	411
102103404050050	34	1,770	Bright	sZ	671	501	Dry	464
102103404250050	34	1,770	Galvanized	sZ	671	501	Dry	464
102103404070050	34	1,960	Bright	sZ	743	501	Dry	464
102103404270050	34	1,960	Galvanized	sZ	743	501	Dry	464
102103604050050	36	1,770	Bright	sZ	752	561	Dry	520

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Technical data

Part code	Rope diameter mm	Tensile strength N/mm²	Finish	Rope lay	Min. breaking force kN	Steel area mm²	Lubrication	Weight kg/100m
102103604250050	36	1,770	Galvanized	sZ	752	561	Dry	520
102103604070050	36	1,960	Bright	sZ	833	561	Dry	520
102103604270050	36	1,960	Galvanized	sZ	833	561	Dry	520
102103804050050	38	1,770	Bright	sZ	838	625	Dry	579
102103804250050	38	1,770	Galvanized	sZ	838	625	Dry	579
102103804070050	38	1,960	Bright	sZ	928	625	Dry	579
102103804270050	38	1,960	Galvanized	sZ	928	625	Dry	579
102104004050050	40	1,770	Bright	sZ	929	693	Dry	642
102104004250050	40	1,770	Galvanized	sZ	929	693	Dry	642
102104004070050	40	1,960	Bright	sZ	1,029	693	Dry	642
102104004270050	40	1,960	Galvanized	sZ	1,029	693	Dry	642

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