

SINGLE-STRANDED CABLE

● Single-stranded Cable

Single-stranded cable is newly developed by our company as a new type of sling product, which is made of rare earth alloy (the corrosion resistance is 2.05 times of zinc) coated steel strand as the main cable body with sockets attached on both end by pressing or casting, thus forming a single-stranded cable. It is with the characteristic of high strength and corrosion resistance. Taking the diameter 80mm, strength grade 1770 single-stranded cable as an example, the minimum breaking force is 5790KN, which is 1.5 times of round stranded wire rope.

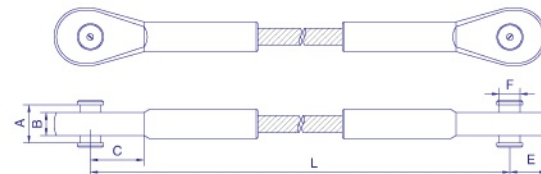
Range of products: Diameter from 9mm to 110mm, cables with fungible PE protection is the idea succedaneum, which is widely used in bridge, stadium construction and other constructional engineering fields.

Single-stranded steel wire rope is manufactured based on a round wire as a core, out of which is entwisted one or more round steel wires. It is according to the standard of EN12385-10 or ASTM A586. The outer wires of the single-stranded wire rope can be made as RHOL or LHOL according to different requests.

According to the grade of zinc coat, there are galv. Single-stranded wire ropes and galv. aluminum and rare earth coated mixture single-stranded wire ropes. The most common single-stranded wire rope structures are as follows:

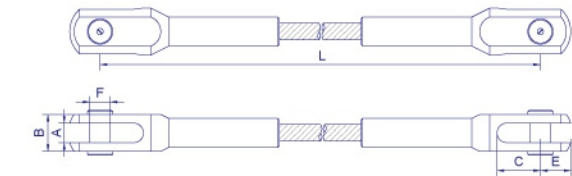
1X7 Type, 1X19 Type, 1X37 Type, 1X61 Type, 1X91 Type, 1X127-397 Type. The strength grade is 1570 and 1770.

● O TYPE PRESSED SINGLE-STRANDED CABLE



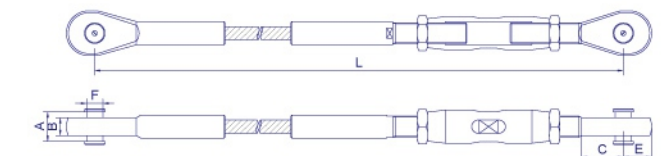
Art. No.	Dia of Rope (d)	A	B	C	E	Axis F
OX10	10	32	15	41	26	16
OX12	12	38	18	49	31	20
OX14	14	42	20	56	36	22
OX16	16	50	24	63	41	26
OX18	18	54	26	72	46	29
OX20	20	67	32	79	50	33
OX22	22	73	35	86	55	36
OX24	24	83	40	90	57	38
OX26	26	93	45	99	63	43
OX28	28	104	50	104	66	45
OX30	30	114	55	112	71	48

● U TYPE PRESSED SINGLE-STRANDED CABLE



Art. No.	Dia of Rope (d)	A	B	C	E	Axis F
UX10	10	17	32	45	26	16
UX12	12	20	38	55	32	20
UX14	14	22	42	60	37	22
UX16	16	26	50	70	42	26
UX18	18	28	54	80	48	29
UX20	20	35	67	88	51	33
UX22	22	38	73	95	56	36
UX24	24	43	83	100	58	38
UX26	26	48	93	110	65	43
UX28	28	54	104	115	69	45
UX30	30	59	114	125	73	48

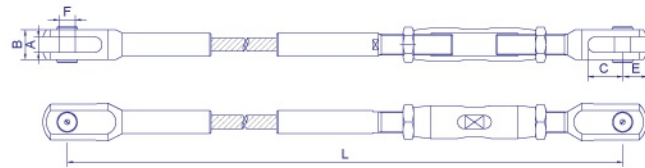
● OT TYPE PRESSED SINGLE-STRANDED CABLE



Art. No.	Dia of Rope (d)	A	B	C	E	Axis F
OTX10	10	32	15	41	26	16
OTX12	12	38	18	49	31	20
OTX14	14	42	20	56	36	22
OTX16	16	50	24	63	41	26
OTX18	18	54	26	72	46	29
OTX20	20	67	32	79	50	33
OTX22	22	73	35	86	55	36
OTX24	24	83	40	90	57	38
OTX26	26	93	45	99	63	43
OTX28	28	104	50	104	66	45
OTX30	30	114	55	112	71	48

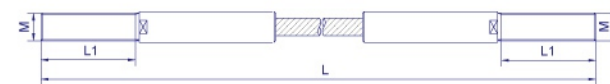
SINGLE-STRANDED CABLE

● UT TYPE PRESSED SINGLE-STRANDED CABLE



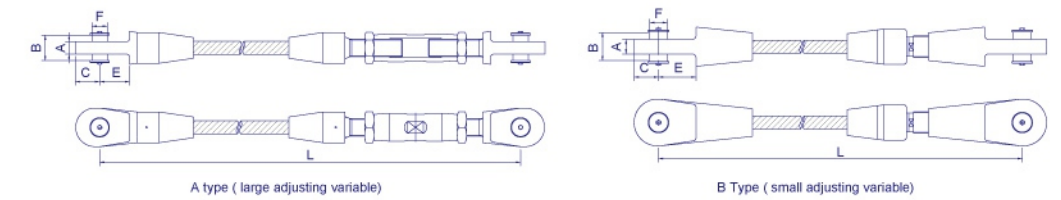
Art. No.	Dia of Rope (d)	A	B	C	E	Axis F
UTX10	10	17	32	45	26	16
UTX12	12	20	38	55	32	20
UTX14	14	22	42	60	37	22
UTX16	16	26	50	70	42	26
UTX18	18	28	54	80	48	29
UTX20	20	35	67	88	51	33
UTX22	22	38	73	95	56	36
UTX24	24	43	83	100	58	38
UTX26	26	48	93	110	65	43
UTX28	28	54	104	115	69	45
UTX30	30	59	114	125	73	48

● W TYPE PRESSED SINGLE-STRANDED CABLE



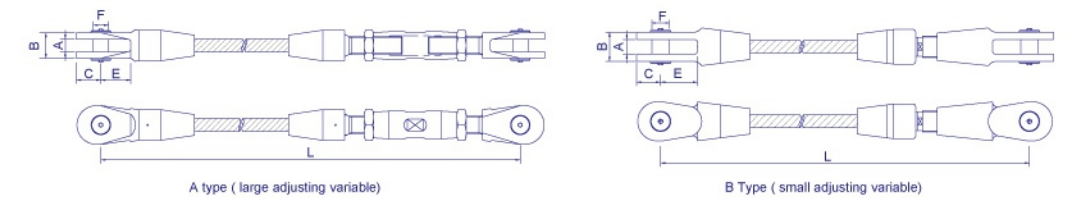
Art. No.	Dia of Rope (d)	M	L1
WX10	10	22	100
WX12	12	27	110
WX14	14	30	115
WX16	16	33	120
WX18	18	36	125
WX20	20	42	130
WX22	22	45	135
WX24	24	48	140
WX26	26	52	140
WX28	28	56	145
WX30	30	60	150

● O TYPE CASTED SINGLE-STRANDED CABLE



Art. No.	Dia of Rope (d)	A	B	C	E	Axis F
CDJ32	φ 32~φ 36	48	98	90	115	59
CDJ38	φ 38~φ 42	58	118	110	140	72
CDJ44	φ 44~φ 48	73	153	116	170	83
CDJ50	φ 50~φ 54	78	158	134	200	94
CDJ56	φ 56~φ 60	88	178	158	230	108
CDJ62	φ 62~φ 66	93	183	167	235	113
CDJ68	φ 68~φ 74	97	197	188	260	122
	φ 76~φ 82	112	232	218	310	146
		123	243	250	340	159
CDJ92			261	263	360	172
CDJ102	φ 102~φ 110			278	370	177

● U TYPE CASTED SINGLE-STRANDED CABLE



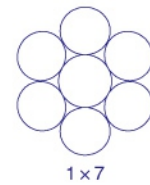
Art. No.	Dia of Rope (d)	A	B	C	E	Axis F
CEJ32	φ 32~φ 36	48	98	90	115	59
CEJ38	φ 38~φ 42	58	118	110	140	72
CEJ44	φ 44~φ 48	73	153	116	170	83
CEJ50	φ 50~φ 54	78	158	134	200	94
CEJ56	φ 56~φ 60	88	178	158	230	108
CEJ62	φ 62~φ 66	93	183	167	235	113
CEJ68	φ 68~φ 74	97	197	188	260	122
CEJ76	φ 76~φ 82	112	232	218	310	146
CEJ84	φ 84~φ 90	123	243	250	340	159
CEJ92	φ 92~φ 100	131	261	263	360	172
CEJ102	φ 102~φ 110	145	285	278	370	177

SINGLE-STRANDED CABLE

● COMMON SINGLE-STRANDED WIRE ROPE AND 5% RARE EARTH ALLOY COATED SINGLE-STRANDED WIRE ROPE

● 1 × 7 TYPE

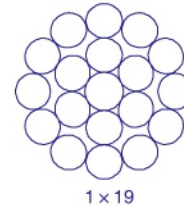
- Typical structure is 30+24+18+12+6+1, with the modulus of elasticity over 150kpa
- Structure available: 1X7 Type



Rope Diameter mm	Nominal Approximate Length Quality kg/100m	Nominal Cross-Sectional Area Of Metal mm ²	Tensile Strength MPa	
			1570	1770
			Minimum Breaking Strength kN	
9	39.6	47.7	67.4	76
9.5	44.1	53.2	75.1	84.7
10	48.9	58.9	83.2	93.8
11	59.2	71.3	101	114
12	70.4	84.8	120	135
13	82.6	99.5	141	159
14	95.8	115	163	184
14.5	103	124	175	197
16	125	151	213	240

● 1 × 19 TYPE

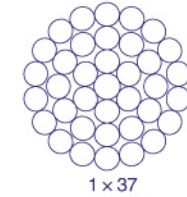
- Typical structure is 1+6+12, with the modulus of elasticity over 150kpa
- Structure available: 1 × 19 Type, 1 × 19S Type, 1 × 19W Type, etc



Rope Diameter mm	Nominal Approximate Length Quality kg/100m	Nominal Cross-Sectional Area Of Metal mm ²	Tensile Strength MPa	
			1570	1770
			Minimum Breaking Strength kN	
14.5	102	123	174	196
16	124	150	211	238
18	157	189	268	302
19	175	211	298	336
20	194	234	330	372
22	235	283	400	451
26	328	395	558	629
28	380	458	647	730
29	408	491	694	783
30	436	526	743	838

● 1 × 37 TYPE

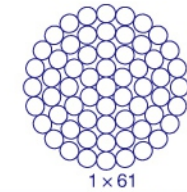
- Typical structure is 1+6+12+18, with the modulus of elasticity over 150kpa
- Structure available: 1 × 37 Type, 1 × 29Fi Type, 1 × 36SW Type, etc



Rope Diameter mm	Nominal Approximate Length Quality kg/100m	Nominal Cross-Sectional Area Of Metal mm ²	Tensile Strength MPa	
			1570	1770
			Minimum Breaking Strength kN	
22	234	282	390	439
24	279	336	464	523
26	327	394	544	614
28	379	457	631	712
29	407	490	677	763
30	435	524	725	817
32	495	597	824	930
34	559	674	931	-
35	593	714	986	-
36	627	755	1040	-
38	698	842	1160	-
40	774	932	1290	-
42	853	1030	1420	-

● 1 × 61 TYPE

- Typical structure is 1+6+12+18+24, with the modulus of elasticity over 150kpa



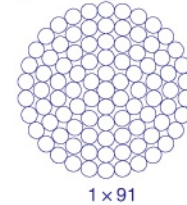
Rope Diameter mm	Nominal Approximate Length Quality kg/100m	Nominal Cross-Sectional Area Of Metal mm ²	Tensile Strength MPa	
			1570	1770
			Minimum Breaking Strength kN	
26	327	393	544	613
28	379	456	630	711
29	406	489	676	762
30	435	524	724	816
32	495	596	823	928
34	558	673	929	1050
35	592	713	985	1110
36	626	754	1040	1170
38	698	840	1160	1310
40	773	931	1290	1450
42	852	1030	1420	-
44	935	1130	1560	-
45	978	1180	1630	-
46	1020	1230	1700	-
48	1110	1340	1850	-
50	1210	1450	2010	-
51	1260	1510	2090	-
52	1310	1570	2170	-
54	1410	1700	2340	-

SINGLE-STRANDED CABLE

- COMMON SINGLE-STRANDED WIRE ROPE AND 5% RARE EARTH ALLOY COATED SINGLE-STRANDED WIRE ROPE

- 1 × 91 TYPE

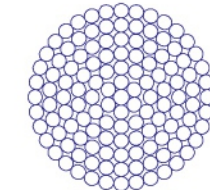
● Typical structure is 1+6+12+18+24+30, with the modulus of elasticity over 150kpa



Rope Diameter mm	Nominal Approximate Length Quality kg/100m	Nominal Cross-Sectional Area Of Metal mm ²	Tensile Strength MPa	
			1570	1770
			Minimum Breaking Strength kN	
34	557	671	927	1050
35	590	711	982	1110
36	624	752	1040	1170
38	696	838	1160	1310
40	771	929	1280	1450
42	850	1020	1410	1590
44	933	1120	1550	1750
45	976	1180	1620	1830
46	1020	1230	1700	1910
48	1110	1340	1850	2080
50	1205	1450	2000	2260
51	1255	1510	2090	2350
52	1300	1570	2170	2440
54	1405	1690	2340	-
56	1510	1820	2510	-
57	1570	1890	2610	-
58	1620	1950	2700	-
60	1736	2090	2890	-
62	1855	2230	3080	-
64	1975	2380	3280	-
66	2100	2530	3490	-

- 1 × 127-547 TYPE

● With the modulus of elasticity over 150kpa



Rope Diameter mm	Nominal Approximate Length Quality kg/100m	Nominal Cross-Sectional Area Of Metal mm ²	Tensile Strength MPa	
			1570	1770
			Minimum Breaking Strength kN	
50	1200	1450	2000	2260
51	1250	1510	2090	2350
52	1300	1570	2170	2440
54	1400	1690	2340	2640
56	1510	1820	2510	2840
57	1570	1890	2610	2940
58	1620	1950	2700	3040
60	1730	2090	2890	3250
62	1850	2230	3080	3480
64	1970	2380	3280	3700
66	2100	2530	3490	3940
67	2160	2610	3600	4060
68	2230	2680	3710	4180
70	2360	2840	3930	4430
71	2430	2930	4040	4560
72	2500	3010	4160	4690
74	2640	3180	4390	4950
76	2780	3350	4630	5220
77	2860	3440	4750	5360
78	2930	3530	4880	5500
80	3080	3710	5130	5790
82	3240	3900	5390	6080
83	3320	4000	5520	6230
84	3400	4100	5660	6380
86	3560	4290	5930	6690
87	3650	4390	6070	6840
88	3730	4490	6210	7000
90	3900	4700	6500	7320
92	4080	4910	6790	7650
94	4260	5130	7090	7990
96	4440	5350	7390	8330
98	4630	5570	7700	8680
100	4820	5800	8020	9040
102	5010	6040	8340	9410
103	5110	6160	8510	9590
104	5210	6280	8670	9780
106	5410	6520	9010	10200
108	5620	6770	9350	10500
109	5720	6900	9530	10700
110	5830	7020	9700	10900
112	6040	7280	10100	11300
114	6260	7540	10400	11700
115	6370	7680	10600	12000
116	6480	7810	10800	12200
118	6710	8080	11200	12600
120	6940	8360	11500	13000
122	7170	8640	11900	13500
124	7410	8920	12300	13900
126	7650	9210	12700	14400
128	7890	9510	13100	14800
130	8140	9810	13600	15300
132	8390	10100	14000	15800
134	8650	10400	14400	16200
135	8780	10600	14600	16500
136	8910	10700	14800	16700
138	9170	11100	15300	17200
140	9440	11400	15700	17700
141	9580	11500	15900	18000
142	9710	11700	16200	18200
144	9990	12000	16600	18700
146	10300	12400	17100	-
147	10400	12500	17300	-
148	10600	12700	17600	-
150	10800	13100	18000	-
152	11100	13400	18500	-
154	11400	13800	19000	-
156	11700	14100	19500	-
158	12000	14500	20000	-
160	12300	14900	20500	-

STEEL WIRE ZINC LAYER WEIGHT

Rope Diameter mm	Zinc Layer Weight g/m ²	
	Grade B	Grade C
2.60 ≤ d < 3.05	244	488
3.05 ≤ d < 3.60	259	519
3.60 ≤ d < 4.70	275	549
4.70 ≤ d ≤ 6.0	305	610