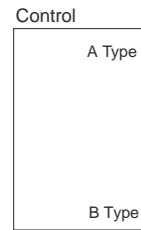


# WINCHES & PULLERS SERIES ELECTRIC WINCHES

ATV/UTV winch    Boat winch    Utility winch    Truck winch



## ATV/UTV Winch Specification

Model		PA750	PA1500	PA2000	PA2500	PA3000	PA3500	PA4000
Rated single line pull	lbs	750	1500	2000	2500	3000	3500	4000
Motor		0.3KW/12V	0.52KW/12V	0.7kw/12V;0.8kw/24v	0.8kw/12v	1.0kw/12v	0.8kw/12v	0.9kw/12V
Cable (Dia. x L)	mm	- [	- [	- [	- [ 0	- [	- [	- [
Overall dimensions (L x W x H)	mm	275x105x105	285x105x105	285x105x105	290x105x105	305x105x105	345x118x121	353x117x125
Packing size	cm	33.5x32x36.5	33.5x32x36.5	48x34x34	34x24x34	34x24x34	40.5x25.5x35	40.5x25.5x35
Packing Qty	PCS	4	4	4	2	2	2	2
N.W/G.W	kg	24/25	25/27	20/22	18/20	20/22	25/27	26/28

## Boat Winch Specification

Model		PB2000	PB3000	PB3500
Load capacity	lbs	2000	3000	3500
Max. boat size	Feet	18	18	20
Max. boat weight	lbs	5000	8500	9500
Line speed (with load)	ft/min	6	3	8
Cable length	m	9.2	9.2	10.5
Hook size	in	1/4"	1/4"	1/4"
Power supply	V	12	12	12
Power cord		6'L. Negative Lead 14'9"L. Positive Lead	6'L. Negative Lead 14'9"L. Positive Lead	6'L. Negative Lead 14'9"L. Positive Lead
Remote switch		9'9L	9'9L	9'9L
Mounting plate size LxHxW		8-3/4x4-15/16x3/16	8-3/4x4-15/16x3/16	8-3/4x4-15/16x3/16
Packing size	cm	40.5x30x52.5	40.5x30x52.5	42.5x29.5x28
Packing Qty		2PCS/CTN	2PCS/CTN	1PC/CTN
N.W/G.W	kg	21/23	24/26	16/18

## Utility Winch Specification

Model		PU4000	PU4500
Rated single line pull	lbs	4000	4500
Motor		1.2kw/12V; 1.1kw/24V	1.2kw/12V; 1.1kw/24V
Gear reduction ratio		159:1	159:1
Cable (Dia.xL)	mm	3 i	3 i
Overall dimensions (LxWxH)	mm	378x183x152	383x183x152
N.W/G.W	kg	18/19	18/19
Packing size	cm	44.5x30x22.5	44.5x30x22.5
Packing Qty		1PC/CTN	1PC/CTN

## Car winch

## Truck Winch Specification

Model		PT13000	PT15000	PT16800	PT20000
Rated single line pull	lbs	13000	15000	16800	20000
Motor		4.0kw/12V, 4.8kw/24V	4.2kw/12V, 4.6kw/24V	4.2kw/12V, 4.6kw/24V	5.5kw/12V,4.8kw/24V
Control		Remote switch, 12ft(3.7m)lead			
Cable (Dia.xL)		- P P i P	- 1.0mmx28m	- 1.5mmx28m	- P P i P
Overall Dimensions	mm	540x160x218	547x180x247	547x180x247	565x310x280
Mounting Bolt Pattern	mm	254x114.3	254x114.3	254x114.3	254x114.3, 254x194.3
N.W/G.W	kg	39/41	53/55	54/56	52/54, 85kg(with cable) 60x38x40(without cable)
Packing Size	cm	57x19x34.5	60x23x38.5	60x23x38.5	46x46x15(cable)
Packing Qty		1PC/CTN	1PC/CTN	1PC/CTN	1PC/CTN

## Car Winch Specification

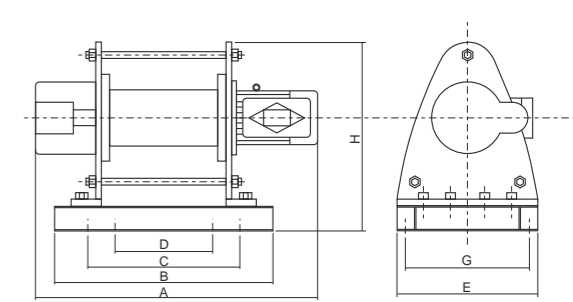
Model		PC5000	PC6000/PS6000	PC8000	PS8500	PS9000	PS9500	PS10000	PS11000	PS12000	
Rated single line pull	lbs	5000	6000	8000	8500	9000	9500	10000	11000	12000	
Motor		1.2kw/12V	1.3kw/12V; 4.0kw/12V;3.0kw/12V	4.0kw/12V;4.8kw/24V;4.0kw/12V	4.0kw/12V; 2.68kw/24V;8kw/12V; 3.0kw/24V;8kw/12V; 3.0kw/24V	4.0kw/12V	4.0kw/12V	4.0kw/12V; 2.68kw/24V;8kw/12V; 3.0kw/24V;8kw/12V; 3.0kw/24V	4.0kw/12V; 2.68kw/24V;8kw/12V; 3.0kw/24V;8kw/12V; 3.0kw/24V	4.0kw/12V; 2.68kw/24V;8kw/12V; 3.0kw/24V;8kw/12V; 3.0kw/24V	
Control		Remote switch, 12ft(3.7m)lead									
Cable (Dia. x L)		- P P i P	- P P i P	- P P i P	- P P i P	- P i P	- P i P	- P P i P	- P i P	- P P i P	
Overall Dimensions	mm	456x156x215	456x156x215	537x160x218	537x160x218	537x160x218	537x160x218	537x160x218	537x160x218	537x160x218	
Mounting Bolt Pattern	mm	166.4x114.3	166.4x114.3	254x114.3	254x114.3	254x114.3	254x114.3	254x114.3	254x114.3	254x114.3	
N.W/G.W	kg	26/28	29/32	34/38	37/38	37/38	37/38	37/39	40/42	40/42	
Packing Size	cm	49x19x34.5	49x19x34.5	57x19x34.5	57x19x34.5	57x19x34.5	57x19x34.5	57x19x34.5	57x19x34.5	57x19x34.5	
Packing Qty		1PC/CTN	1PC/CTN	1PC/CTN	1PC/CTN	1PC/CTN	1PC/CTN	1PC/CTN	1PC/CTN	1PC/CTN	

Option:

- ATV Fairlead M C M C
- Fairlead -# -#
- Mounting Plate -# -#
- Detachable Winch Mounting System
- Pulley Block 5 5
- Wireless Remote Control -# -# -# -#

# Electric Winch

- ½ Electric winches of the BETA PROLINE range are used for lifting, towing and positioning of loads under demanding conditions.
- ½ The application of high-quality components and gear motors ensure safety and a long service life.
- ½ Option electronic overload protection.
- ½ The maintenance-free, oil lubricated gearbox has quiet running characteristics.
- ½ Rope drum with large rope capacity
- ½ Increased operating safety due to 36V contactor control.
- ½ High strength mounting bracket can reduce vibration and ensure smooth operation.



Model: KDJ-E3

Model		KDJ-1000E3	KDJ-1500E3	KDJ-2000E3	KDJ-3000E3	KDJ-5000E3
Capacity	T	1	1.5	2	3	5
Lifting speed	m/min	12	12	10	8	10
Power	kw	3	4.5	7.5	7.5	18.5
Voltage		380V/3F/50HZ				
Lifting height	m	70	100	70	100	70
Wire rope	mm x m	8.7 f 72		11 f 72		20 f 103
Size	A	mm	880	980	1100	1220
	B	mm	650	700	800	900
	C	mm	440	405	510	610
	D	mm	340	355	370	470
	E	mm	450	478	700	700
	G	mm	410	420	630	630
	H	mm	568	585	850	850

- Option: 1.36V Control box Lit has the function of over load protection and 36V safety voltage
- 2. Over heat protection

Model		KDJ-300E2	KDJ-300E21	KDJ-500E2	KDJ-500E21	KDJ-750E2	KDJ-1000E2
Rated lifting weight	kg	300	300	500	500	750	1000
Lifting height	m	70	70	70	70	70	100
Lifting Speed	m/min	7-14	7-14	7-14	7-14	7-14	7-14
Power of motor	Kw	2	1	2.15	1.1	1.5	3
Electric current	A	5	5	5	5	4.3	7.6
Voltage	V	230V,1 PHASE	380V,3 PHASE	230V,1 PHASE	380V, 3 PHASE	380V, 3 PHASE	380V, 3 PHASE
Wire rope Dia.	(mm)	6	6	6	6	7	11
Wire rope length	m	72	72	72	72	72	102
N. W.	kg	37.5	51	38	52	70	160

**Model: KDJ-E2**



**Building Electric Winch Series**

½ The Building Electric Winch Series can be mainly used in lifting, disassemble, moving and installing points in construction companies, diggings and workshop.

½ Main Construction Features: with strong pulling power, steel cable arranged in an orderly way, with safety and reliability.

**Model: JM (Slow type)**

Capacity: 0.5T~16T

**Model: JK (Fast type)**

Capacity: 0.5T~10T

Model	Cable rated pull (t)	Rope speed (m/min)	Diameter of Wire rope (mm)	Wire rope length (m)	Cord capacity (m)	Power (kw)	Weight (without rope/kg)
JK-0.5	0.5	22	7.7	60	200	2.2KW-4	100
JK-1	1	22	9.3	70	180	5.5KW-4	160
JK-1A	1	30	9.3	70	180	7.5KW-4	166
JK-2	2	20	12.5	80	160	11KW-4	300
JK-2A	2	30	12.5	80	160	15KW-4	325
JK-3	3	20	15.5	80	200	15KW-4	400
JK-3A	3	30	15.5	80	200	18.5KW-4	420
JK-5	5	20	19.5	~	250	YZR 22KW-6	1000
JK-5A	5	30	19.5	~	250	YZR 30KW-6	1200
JK-8	8	20	26	~	200	YZR 30KW-6	1700
JK-10	10	20	30	~	200	YZR 45KW-6	2200
JM-0.5	0.5	15	7.7	60	200	2.2KW-4	100
JM-1	1	15	9.3	70	180	5.5KW-4	160
JM-2	2	15	12.5	80	160	7.5KW-4	270
JM-3	3	15	15.5	80	200	11KW-4	375
JM-5	5	9	19.5	~	250	11KW-6	710
JM-5A	5	9	19.5	~	250	YZR 11KW-6	805
JM-5B	5	15	19.5	~	250	YZR 15KW-6	860
JM-8	8	9	26	~	200	YZR 15KW-6	1400
JM-8A	8	15	26	~	200	YZR 22KW-6	1550
JM-10	10	9	30	~	200	YZR 22KW-6	1800
JM-10A	10	15	30	~	200	YZR 30KW-6	1950
JM-12	10	9	32	~	200	YZR 22KW-6	3700
JM-12A	12	15	32	~	200	YZR 37KW-6	3900
JM-16	16	9	39	~	200	YZR 30KW-6	4300
JM-16A	16	15	39	~	200	YZR 45KW-6	4500

**ELECTRIC WINCH**

resistance, not easy to burn the motor.

anti-skid hook. The safety performance is higher. low noise.

as a power source, 230V can be used.

as machinery manufacturing, electronics, auto-mobile, shipbuilding and workpiece assembly.

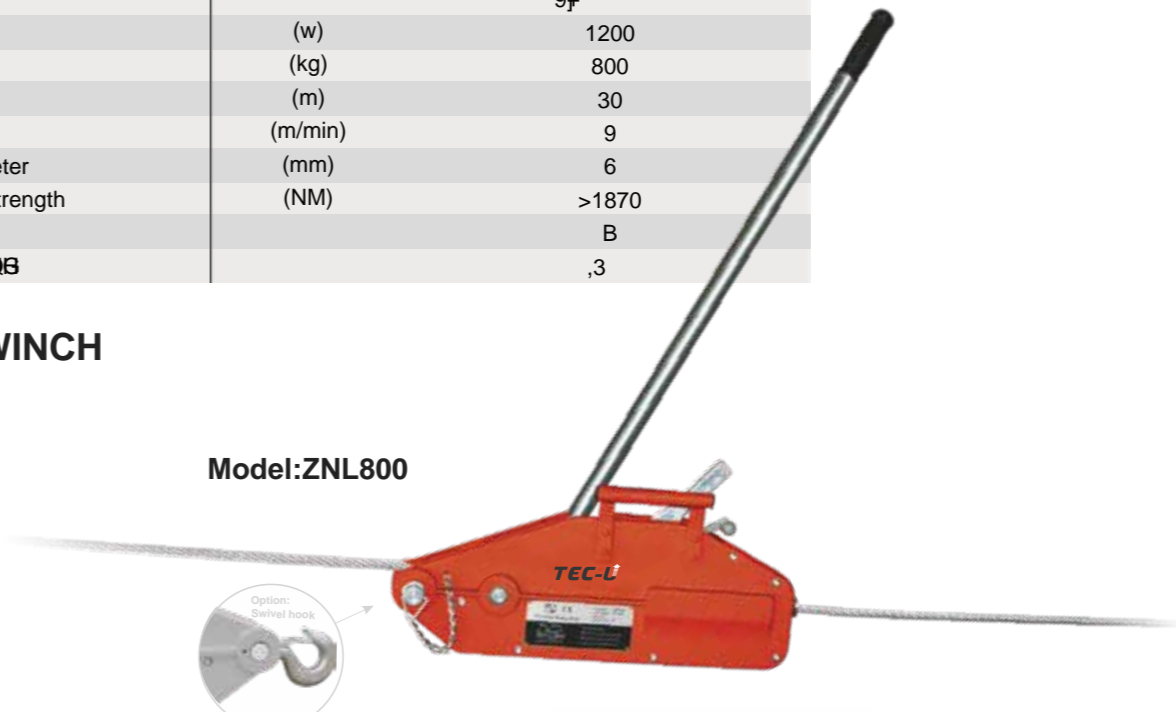


**Model:GF800A**

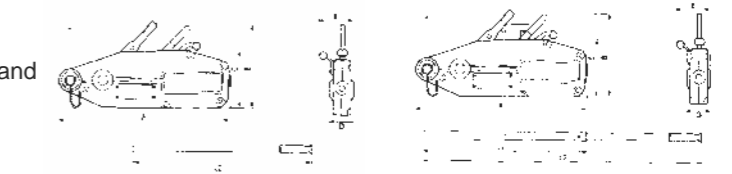
Model	F800A	
Voltage	9+	
Capacity	(kg)	1200
Capacity	(kg)	800
Capacity	(m)	30
Capacity	(m/min)	9
Wire Diameter	(mm)	6
Breaking Strength	(NM)	>1870
Capacity		B
Capacity		,3

**HAND WINCH**

**Model:ZNL800**



- **TEC-U** portable design for heavy-duty pulling, rigging, dragging, and stretching applications over long distances.
- **CAP** standard wire rope length of 20M.
- **SMOOTH OPERA** RIWKHG OFODPSL QMDZVSURYLGHVDBYHQGLVWU grip on the wire rope for smooth operation and low wear
- **LIMITLESS WIRE ROPE TRA** distances.
- **DURABILITY** yet built tough for long life.
- **OVERLOAD PROTECTION** design to protect against dangerous overloads.
- **TELESCOPIC HANDLE** operation.
- **MINIMAL** O KULFDWLRQVDOOWKDVLVUHTXUHG



Model	800	1600	3200	5400
Rated capacity(kg)	800	1600	3200	5400
Rated forward hand power(N)	341	400	438	850
Rated forward travel (mm)	152	155	128	125
Rope diameter(mm)	8.3	11	16	20
Wire rope safety factor load capacity	5	5	5	5
Safety factor & static load capacity	4	4	4	4
Mac. Traveling load(kg)	1200	2400	4000	8100
Dimensions (mm)	A	426	545	660
	B	235	284	325
	C	168	190	230
	D	60	72	91
	E	64	97	116
/	~	692	692	692
/	800	1200	1200	1200

# WINCHES & PULLERS SERIES HAND WINCHES & HAND PULLERS

## Hand Winch with Brake

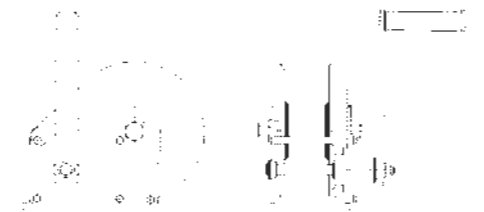
Brake Hand Winch has a mechanical brake system completing with double brake pawls made of heat treated alloy steel to help withstand wear and provide increased safety under all operating conditions. This system helps to ensure positive load actuation of the brake.

½ All gears are alloy steel and electroplated to resist corrosion.

**Model: BHW-S**  
(material: stainless steel)

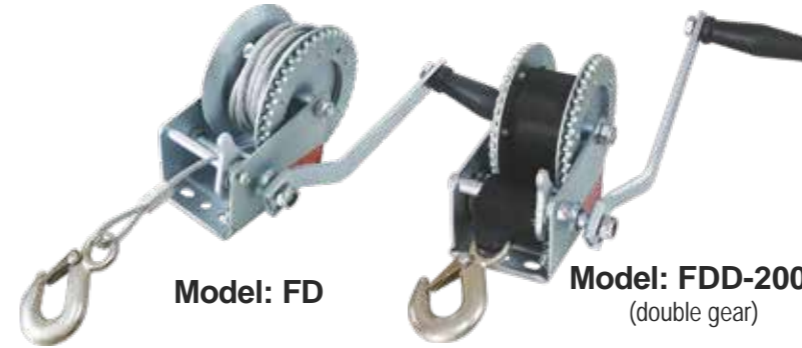


**Model: BHW**



Model	BHW-1200/1200S	BHW-1800/1800S	BHW-2600/2600S
Capacity (lbs)	1200	1800	2600
Safe Working Load (lbs)	1200	1800	2600
Test Load (kN)	8	12.13	17.64
Gear Ratio	4.2:1	5:1	10:1
Dimensions mm	A	156	203
	B	184	256
	C	88	107
	D	210	319
	E	27	27
	F	272	283
	G	51	60
	H	109	109
Net Weight	kg	3.7	7.7
Volume	cm	16x16x22	35x20x23
			35x24x24

## Hand Winch



**Model: FD**

**Model: FDD-2000**  
(double gear)

**Model: LHW**



Model	Rated Pull (lbs)	B/S (lbs)	Gear Ratio	Pieces in Each Box	G.W./N.W. (kg)	Size of Package (mm)	Model	Rated Pull (lbs)	B/S (lbs)	Gear Ratio	Pieces in Each Box	G.W./N.W. (kg)	Size of Package (mm)
FD-600	600	900	3.2:1	6	13/11	45x26x20	LHW-600	600	2400	2.9:1	12	30/28	55x55x25
FD-800	800	1200	3.2:1	6	14/12	45x26x20	LHW-800	800	3200	3.7:1	12	31/29	55x55x25
FD-1000	1000	1500	4.1:1	6	15/13	66x27x18	LHW-1000	1000	4000	4.2:1	12	32/30	55x55x25
FD-1200	1200	1800	4.1:1	6	16/14	66x27x18	LHW-1200	1200	4800	4.2:1	12	32/30	55x55x25
FD-1400	1400	2000	4:1	6	18/16	66x27x18	LHW-1400	1400	5600	4.2:1	12	32/30	55x55x25
FD-1600	1600	2400	4:1	4	15/13	52x31x20	LHW-2000	2000	8000	10.35:1/4.5:1	6	40/38	55x55x26
FD-1800	1800	2700	4:1/8:1	4	17/15	52x31x20	LHW-2500	2500	10000	11.5:1/5:1	6	41/39	55x55x27
FD-2000	2000	3000	4:1/8:1	4	18/16	52x31x20							
FD-2500	2500	3750	4:1/8:1	4	19/17	52x31x20							
FDD-2000	2000	2500	4.1:1	6	26/24	50x28x22							

## Heavy duty hand winch

**Model: JHW**



- Free wheeling feature enables the operator to pay out cable fast with no load attached.
- Will not free wheel under load.
- Safe and dependable braking system includes a double-tipped brake pawl ensuring that either tip is always engaged under all conditions.
- Non-asbestos brake disc using a high quality low abrasion aramid fibre material for a safer and healthier environment.
- Dust and weather-tight housing with an ABS plastic cover to seal out dust and rain.
- All braking components are plated with a rust resistant finish.
- Handle grip is designed to allow maximum comfort during winding.
- Handle length is easily adjustable.

Model	JHW-0.5	JHW-1.0	JHW-2.0	JHW-3.0
Capacity (kg)	500	1000	2000	3000
Test Load (kN)	6.125	12.25	24.5	36.75
Wire size (mm) x Length (M)	5x40	8x40	9x40	12.5x40
Gear Ratio	4.33:1	12.19:1	22.68:1	29.16:1
Min. force requirement (N)	120	120	130	180
Net Weight (kg)	14.4	19.7	25.1	44.3

## Hand Winch

- This versatile design offers a choice of fixing positions and alternative rope "payoff" directions.
- The hand winch drum incorporates a free wheeler lease catch and the load is retained by the heavy duty brake.

TYPE	S.W.L (kg)	Wire rope (mm)	Wire length (m)	N.W. (kg)
GR150	150	4	22	8
GR300	300	4	40	16
GR500	500	6.8	25	17
GR1000	1000	9	25	38
GR2000	2000	13	30	60
VS250	250	4	20	10
VS500	500	6.8	25	16
VS1000	1000	9	35	40



**Model: GR**



**Model: VS**

## Ratchet Puller



Type	Capacity (t)	Wire Rope Size (mm)	Net weight (kg)
RP-1000	1	5x2300	3.3
RP-1500	1.5	8x2300	4.2
RP-2000	2	8x2300	4.5

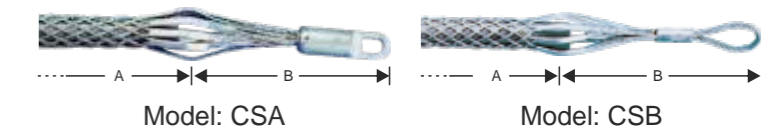
## Cable Grip



Type	Specification (t)	Jaw opening (mm)	Net weight (kg)
CG-1000	1	5-20	0.5
CG-2000	2	7-20	1.35
CG-3000	3	16-32	2.5

## Cable Socks

For pulling & supporting cables, hoses, rods, ropes & tubes etc.



**Model: CSA**

**Model: CSB**

## Hand Puller




**Model: QSS**



Model	Capacity (T)	Pulling Force load (kN)	Steel Cable Diameter (mm)	Steel Cable Length (mm)	Effective Distance (m)	Qty/ Carton (PCS)	N.W. / G.W. (kg)	Package Size (cm)	Remark
QSS1TA1	1	4.9	5	1.8	0.5	6	12/14	56*21*24	2 Hooks
QSS2TA2	2	9.8	6	2.2	0.7	6	17/19	61*26*22	3 Hooks
QSS2TB1	2	9.8	8	3	1.1	6	19/21	61*26*22	2 Hooks
QSS2TB2	2	9.8	8	3	1.1	6	20.5/22.5	61*27*22	3 Hooks
QSS3TB1	3	14.7	11	3	1.2	6	18.5/20	70*21*27	2 Hooks
QSS3TB2	3	14.7	11	3	2.4	6	19/21	70*21*27	3 Hooks
QSS4TB1	4	19.6	16	3	1.2	4	20/22	70*21*29	2 Hooks
QSS4TB2	4	19.6	16	3	2.4	4	21.5/23.5	70*21*29	3 Hooks

**Galv. Aircraft Cable (Not For Aircraft Use)**

Specification: MIL-W-83420D/MIL-W-1511A  
Improved plow steel

Cross sections	Construction	Nominal Dia. (in)	Tolerance on Dia. (in)	Approx. Weight lb/1000'	Min. breaking strength	
					Galvanization	Stainless steel
					lb	lb
	7x7	3/64	0.008	4.2	270	270
		1/16	0.010	7.5	480	480
		3/32	0.012	16.0	920	920
		1/8	0.014	28.5	1700	1700
		5/32	0.016	43.0	2600	2400
		3/16	0.018	62.0	3700	3700
		1/4	0.018	106.0	6100	6100
		5/16	0.022	167.0	9200	9000
		3/8	0.026	236.0	13300	12600
	7x19	3/32	0.012	17.4	1000	920
		1/8	0.014	29.0	2000	1760
		5/32	0.016	45.0	2800	2400
		3/16	0.018	65.0	4200	3700
		7/32	0.018	86.0	5600	5000
		1/4	0.018	110.0	7000	6400
		9/32	0.020	139.0	8000	7800
		5/16	0.022	173.0	9800	9000
		3/8	0.026	243.0	14400	12000
	1x19	1/16	0.010	8.5	500	500
		3/32	0.012	20.0	1200	1200
		1/8	0.014	35.0	2100	2100
		5/32	0.016	55.0	3300	3300
		3/16	0.018	77.0	4700	4700
		1/4	0.018	135.0	8200	8200
		5/16	0.022	210.0	12500	12500
		3/8	0.026	300.0	18000	18000

**Gac Pvc Cable**

Specification: MIL-W-83420D/MIL-W-1511A  
Improved plow steel

Cross sections	Construction	Diameter (in)		Weight			Breaking Strength lb
		Inner cable	Outer cover	Inner cable lb/1000'	Pvc coating lb/1000'	Total lb/1000'	
	7x7PVC	3/64	1/16	4.2	0.8	5.0	270
		3/64	5/64	4.2	108	6.0	270
		1/16	3/32	7.5	2.2	9.7	480
		3/32	1/8	7.5	5.4	12.9	480
		3/32	1/8	16.0	3.1	19.1	920
		3/32	5/32	16.0	7.2	23.2	920
		1/8	5/32	28.5	4.1	32.6	1700
		1/8	3/16	28.5	9.0	37.5	1700
		3/16	1/4	62.0	12.6	74.6	3700
	7x19PVC	3/16	5/16	62.0	28.8	90.8	3700
		3/32	1/8	17.4	3.2	20.6	1000
		3/32	5/32	17.4	7.2	24.6	1000
		1/8	5/32	29.0	4.1	33.1	2000
		1/8	3/16	29.0	9.0	38.0	2000
		5/32	7/32	45.0	10.8	55.8	2800
		5/32	9/32	45.0	25.1	70.1	2800
		3/16	1/4	65.0	12.6	77.6	4200
		3/16	5/16	65.0	28.8	93.8	4200
		1/4	5/16	110.0	16.2	126.2	7000
		1/4	3/8	110.0	35.9	145.9	7000
		5/16	3/8	173.0	19.8	192.8	9800
		5/16	7/16	173.0	43.1	216.1	9800
		3/8	7/16	243.0	23.3	266.3	14400
		3/8	1/2	243.0	50.3	293.3	14400

**Steel Wire Rope**

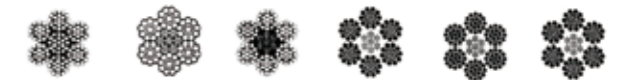
Specification: RR-W-410D  
6x19, 6xS(19), 6xFi(25), 6xWS(26)FC  
6x37, 6xSeS(37), 6xFi(29), 6xWS(31), 6xWS(36)FC  
Improved Plow Steel



Rope Dia		Ips		Eips		Approx Weight
Min.	Max.	Uncoated Regular Lay	Galv Regular Lay	Nominal breaking strength		
				Uncoated Regular Lay	Galv Regular Lay	
In.	In.	lb	lb	lb	lb	lb/ft
1/4	0.265	1.688	1.813	5480	4940	0.015
5/16	0.328	2.215	2.281	8520	7660	0.164
3/8	0.394	2.531	2.719	12200	10980	0.236
7/16	0.459	2.969	3.188	16540	14880	0.320
1/2	0.525	3.375	3.625	21400	19260	0.420
9/16	0.591	3.813	4.094	27000	24300	0.530
5/8	0.656	4.219	4.531	33400	30000	0.660
3/4	0.788	5.063	5.438	47600	42800	0.950
7/8	0.919	5.906	6.344	64400	58000	1.290
1	1.050	6.750	7.250	83600	75200	1.680
1-1/8	1.181	7.549	8.156	105200	94600	2.130
1-1/4	1.313	8.438	9.063	129200	116200	2.630
1-3/8	1.444	9.281	9.969	155400	139800	3.180

**Steel Wire Rope**



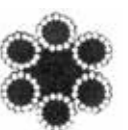
6x19, 6xS(19), 6xFi(25), 6xWS(26)WSC or IWRC  
6x37, 6xSeS(37), 6xFi(29), 6xWS(31), 6xWS(36)WSC or IWRC  
Improved Plow Steel and Extra Improved Steel



Rope Dia		Ips		Eips		Approx Weight
Min.	Max.	Uncoated Regular Lay	Galv Regular Lay	Nominal breaking strength		
				Uncoated Regular Lay	Galv Regular Lay	
In.	In.	lb	lb	lb	lb	lb/ft
1/4	0.265	5880	5300	6800	6120	0.116
5/16	0.328	9160	8240	10540	9480	0.180
3/8	0.394	13120	11800	15100	13600	0.260
7/16	0.459	17780	16000	20400	18360	0.350
1/2	0.525	23000	20700	26600	24000	0.460
9/16	0.591	29000	26100	33600	30200	0.590
5/8	0.656	35800	32200	41200	37000	0.720
3/4	0.788	51200	46000	58800	53000	1.040
7/8	0.919	69200	62200	79600	71600	1.420
1	1.050	89800	80800	103400	93000	1.850
1-1/8	1.181	11300	101800	130000	117000	2.340
1-1/4	1.313	138000	125000	159800	143800	2.890
1-3/8	1.444	167000	150400	192000	172800	3.500

**Steel Wire Rope**

Specification: RR-W-410D  
Improved plow steel

Cross sections	Construction	Rope diameter		Max. strand pitch	Approx. Weight Lb/1000'	Nominal breaking strength	Acceptance breaking strength
		Min.	Max.				
		Inches	Inches				
	6x12+7FC	1/4	0.265	1.813	0.07	3020	2940
		5/16	0.328	2.281	0.10	4680	4560
		3/8	0.394	2.719	0.15	6720	6560
		7/16	0.459	3.188	0.20	9100	8880
		1/2	0.525	3.625	0.26	11820	11520
		9/16	0.591	4.063	0.33	14900	14520
		5/8	0.656	4.531	0.41	18320	17860
		3/4	0.788	5.438	0.59	26200	25600
		3/8	0.394	2.719	0.19	9540	9300
		1/2	0.525	3.625	0.35	16800	16380
	6x24+7FC	5/8	0.656	4.531	0.54	26000	25400
		3/4	0.788	5.438	0.78	37200	36200
		13/16	0.853	5.857	0.91	43600	42600
		7/8	0.919	6.344	1.06	50400	49200
		1	1.050	7.250	1.38	65600	64000
		3/8	0.394	2.719	0.14	6400	6400
		1/2	0.525	3.625	0.25	11400	11400
		9/16	0.591	4.063	0.32	15100	15100
		5/8	0.656	4.531	0.39	18700	18700
		3/4	0.788	5.438	0.56	26900	26900
	6x24+7FC	7/8	0.919	6.344	0.76	36300	36300

**Steel Wire Rope**



Specification: RR-W-410D  
8\*19 Class FC Rotation resistant  
8\*19 Class Iwrc Rotation resistant  
Improved plow steel



Nominal diameter (min.)	Approx. weight		Nominal breaking strength			
			Uncoated		Galv	
	FC	IWRC	FC	IWRC	FC	IWRC
In.	lb/ft	lb/ft	lb	lb	lb	lb
1/4	0.098	0.12	4700	5160	4240	4640
5/16	0.150	0.18	7300	8020	6580	7220
3/8	0.220	0.26	1048	11520	9440	10360
7/16	0.300	0.36	14180	15600	12760	14040
1/2	0.390	0.47	18460	20200	16620	18180
9/16	0.500	0.60	23200	25600	20800	23000
5/8	0.610	0.73	28600	31400	25800	28200
3/4	0.880	1.06	41000	45000	37000	40600
7/8	1.200	1.44	55400	61000	49800	55000
1	1.570	1.88	72000	79200	64800	71200
1 1/8	1.990	2.39	90600	99600	81600	89600
1 1/4	2.450	2.94	111400	122600	100200	110400
1 3/8	2.970	3.56	134200	147600	120800	132800



**Steel Wire Rope**

Specification: RR-W-410D  
18x7+FC and 19x7 Rotation resistant

Cross sections	Construction	Rope Dia		Approx. Weight		Nominal breaking strength			
		Nominal (min.)	Max.	FC	WSC	Uncoated	Galv		
		Inches	Inches	lb/ft	lb/ft	lb	lb		
	Improved Plow steel	3/8	0.394	0.24	0.25	11180	10060		
		7/16	0.459	0.33	0.35	15160	13640		
		1/2	0.525	0.43	0.45	19700	17740		
		9/16	0.591	0.55	0.58	24800	22400		
		5/8	0.656	0.68	0.71	30600	27600		
		3/4	0.788	0.97	1.02	43600	39200		
		7/8	0.919	1.32	1.39	59000	53100		
		1	1.050	1.73	1.82	76600	69000		
			Extra Improved Plow Steel	3/8	0.394	0.24	0.25	12300	11080
				7/16	0.459	0.33	0.35	16660	15000
1/2	0.525			0.43	0.45	21600	19440		
9/16	0.591			0.55	0.58	27200	24400		
5/8	0.656			0.68	0.71	33600	30200		
3/4	0.788			0.97	1.02	48000	43200		
7/8	0.919			1.32	1.39	65000	58500		
1	1.050			1.73	1.82	84400	76000		



**Steel Wire Rope**

Specification: RR-W-410D  
Improved plow steel

Cross sections	Construction	Rope Dia		Approx. Weight	Nominal breaking strength	
		Nominal min.	Max.		Uncoated	Galv
		Inches	Inches	lb/ft	lb	lb
	6x6FC Deck Lashing Ropes	3/8	0.394	0.18	9960	8900
		7/16	0.459	0.25	13480	12140
		1/2	0.525	0.33	17520	15760
		9/16	0.591	0.42	22000	19800
		5/8	0.656	0.51	27000	24400
		3/4	0.788	0.73	38600	34800
	6x7+FC	1/4	0.265	0.10	5280	4760
		5/16	0.328	0.15	8200	7380
		3/8	0.394	0.21	11720	10540
		7/16	0.459	0.29	15860	14280
		1/2	0.525	0.38	20600	18540
		9/16	0.591	0.48	26000	23400
		5/8	0.656	0.59	31800	28600
		3/4	0.788	0.84	45400	40800

**Steel Wire Rope**

Specification: ASTM A475, Galv. Strands

Cross sections	Construction	Nominal min.	Max.	Approx. Weight	Nominal breaking strength		
					Uncoated	Galv	
		Inches	Inches	lb/ft	lb	lb	
	1x7	1/8	0.041	0.032	1330	1830	
		5/32	0.052	0.051	2140	2940	
		3/16	0.062	0.073	2850	3990	
		7/32	0.072	0.098	3850	5400	
		1/4	0.080	0.121	4750	6650	
		9/32	0.093	0.164	6400	8950	
	1x7	5/16	0.109	0.205	8000	11200	
		3/8	0.120	0.273	10800	15400	
		7/16	0.145	0.399	14500	20800	
		1/2	0.165	0.517	18800	26900	
		1x19	1/2	0.100	0.504	19100	26700
		1x19	9/16	0.113	0.637	24100	33700
		1x19	5/8	0.125	0.796	28100	40200