

Cable Cleats

DNV and ABS approved cable cleat solutions for cable tray systems.

YUANXIN Cable Cleats are approved by DNV GL (Det Norske Veritas) and ABS(American Bureau of Shipping).



YUANXIN cable cleats support cable tray systems.

They help prevent cable movement and short-circuit damage.

Suitable for substations, utilities, industrial plants, marine and offshore.

Cable cleats are a first line of defense for cable and power systems.

Construction Data of the Cable Cleats	
Cleat Material	Composite
Metallic Frame	50mm*2.1mm, marine grade, Non-magnetic 316L
Closure Hardware	SS 316L M6,M8,M10 or M12 bolt and Nylon Lock Nut
Integral Pad	Low Smoke, Low Fume, Halogen Free
Tools Required	Wrench
Mounting Bolt	Provided with the Cable Cleat

Performance on the Trefoil Cable Cleats		IEC 61914:2021
Resistance to Electromechanical Force	Test Cable Outer Dia :35mm 9.5.2 180kA Peak 300mm Spacing one time 0.1s 47.2kN 9.5.3 125kA Peak 600mm Spacing two times 0.1s 45.5kN	
Lateral Load Test	Average 25kg	
Axial Load Test	Average 55kg	
Max and Min Temperature	-40℃~60℃	-40℃~60℃
Resistance to Impact	Very Heavy(5kg,400mm)	
Needle Flame Test (Flame Retardant)	30 Seconds	
Resistant to UV light Test	1000 hours	

How To Install

Installation guidance and short-circuit withstand spacing data.

1 About the Cables

- Which type of cable is being used, Single or Multi-Conductor?
- What is the outer diameter of Cables?
- What is the available short circuit current (RMS or IP Peak) of the cable?
- If a ground wire is installed in the cleats, know the outer Diameter of the ground wire .

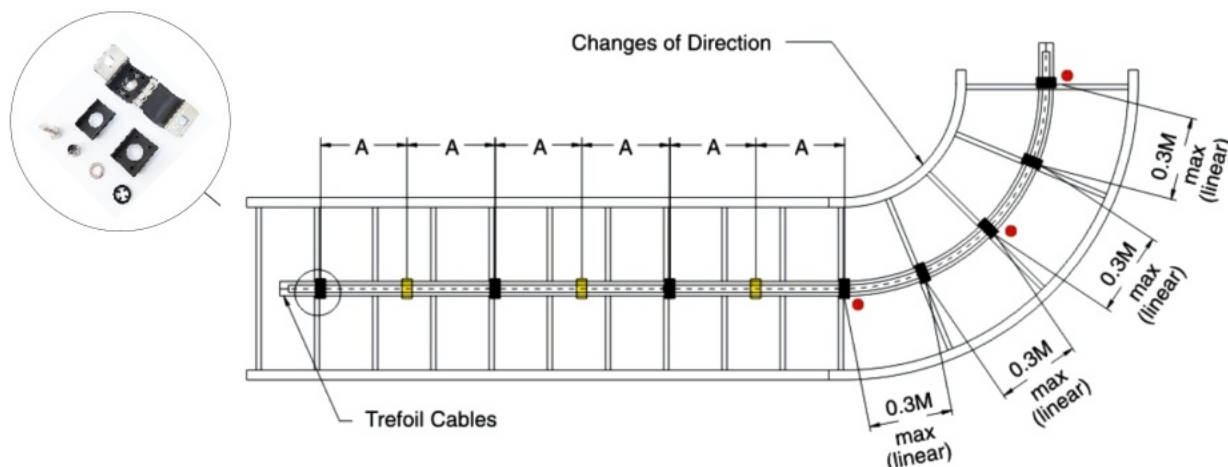
2 About the System

- What is the cable formation, Single or Trefoil?
- What type of the cable tray is installed?

3 Determine the Cleat Space for Installation

Single Conductor Short Circuit Withstand Table

Max. Cable Cleat Spacing(A)		Spacing Between Conductor Centers (mm)																			
		23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61
mm	In.	IP peak(kA) The Electromechanical Forces : 47.2kN																			
225	8.858	168	175	182	189	195	201	207	213	219	224	230	235	240	245	250	255	260	265	269	274
300	11.81	145	152	158	163	169	174	180	185	190	194	199	204	208	212	217	221	225	229	233	237
450	17.72	119	124	129	133	138	142	146	151	155	159	162	166	170	173	177	180	184	187	190	194
600	23.62	103	107	111	115	119	123	127	130	134	137	141	144	147	150	153	156	159	162	165	168
675	26.57	97	101	105	109	112	116	119	123	126	129	133	136	139	141	144	147	150	153	155	158
900	35.43	84	87	91	94	97	100	103	106	109	112	115	117	120	122	125	127	130	132	134	137



Trefoil Cable Cleat FF-T

Technical data and selection table.

Yuanxin Trefoil Cable Cleats FF-T(ER)

This type of Cable Cleats are approved by DNV GL(Det Norske Veritas) and ABS(American Bureau of Shipping).



FF-T Trefoil Cable Cleats												
Part Number	Cable Diameter Range								Dimension			
	Min. Dia.		Mid. Dia.				Max. Dia.		H		W	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
FF-T1323	13	0.51	20	0.79	/	/	23	0.91	79	3.11	82	3.23
FF-T1823	18	0.71	20	0.79	/	/	23	0.91	79	3.11	82	3.23
FF-T2328	23	0.91	25	0.98	/	/	28	1.10	87	3.43	93	3.66
FF-T2732	27	1.06	29	1.14	/	/	32	1.26	91	3.58	99	3.90
FF-T3035	30	1.18	33	1.30	/	/	35	1.38	96	3.78	103	4.06
FF-T3338	33	1.30	35	1.38	/	/	38	1.50	101	3.98	107	4.21
FF-T3642	36	1.42	38	1.50	/	/	42	1.65	109	4.29	116	4.47
FF-T4046	40	1.57	44	1.73	/	/	46	1.81	118	4.65	119	4.69
FF-T4450	44	1.73	47	1.85	/	/	50	1.97	121	4.76	126	4.96
FF-T4855	48	1.89	51	2.01	/	/	55	2.17	130	5.19	137	5.39
FF-T5158	51	2.01	53	2.09	/	/	58	2.28	137	5.39	143	5.63
FF-T5562	55	2.17	57	2.24	60	2.36	62	2.44	141	5.55	152	5.98
FF-T5966	59	2.32	61	2.40	64	2.52	66	2.60	148	5.83	161	6.34
FF-T6370	63	2.48	65	2.56	68	2.68	70	2.76	156	6.14	171	6.73
FF-T6774	67	2.64	69	2.72	72	2.83	74	2.91	165	6.50	180	7.09
FF-T7178	71	2.80	73	2.87	75	2.95	78	3.07	168	6.61	186	7.32
FF-T7482	74	2.91	76	2.99	79	3.11	82	3.23	175	6.89	195	7.68
FF-T7785	77	3.03	80	3.15	83	3.27	85	3.35	180	7.09	202	7.95
FF-T8288	82	3.23	84	3.31	86	3.39	88	3.46	185	7.28	208	8.19
FF-T8896	88	3.46	91	3.58	94	3.70	96	3.78	199	7.83	225	8.86
FF-T96103	96	3.78	98	3.86	100	3.94	103	4.06	210	8.27	240	9.45
FF-T103111	103	4.06	106	4.17	108	4.25	111	4.37	224	8.82	258	10.16
FF-T111119	111	4.37	114	4.49	116	4.57	119	4.69	237	9.33	275	10.83
FF-T119128	119	4.69	124	4.88	/	/	128	5.04	265	10.43	295	11.61

Single Cable Cleat FF-S

Technical data and selection table.

Yuanxin Single Cable Cleats FF-S(ES)

This type of Cable Cleats are approved by DNV GL(Det Norske Veritas) and ABS(American Bureau of Shipping).



FF-S Single Cable Cleats												
Part Number	Cable Diameter Range								Dimension			
	Min. Dia.		Mid. Dia.				Max. Dia.		H		W	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
F-S3239	32	1.26	35	1.38	/	/	39	1.54	74	2.91	81	3.19
F-S3745	37	1.46	40	1.57	/	/	45	1.77	77	3.03	88	3.46
F-S4452	44	1.73	48	1.89	/	/	52	2.05	83	3.27	94	3.70
F-S5159	51	2.01	56	2.20	/	/	59	2.32	91	3.58	102	4.02
F-S5866	58	2.28	62	2.44	/	/	66	2.60	93	3.66	110	4.33
F-S6573	65	2.56	69	2.72	/	/	73	2.87	99	3.90	116	4.57
F-S7385	73	2.87	75	2.95	79	3.11	85	3.35	103	4.06	131	5.16
F-S8494	84	3.31	86	3.39	90	3.54	94	3.70	112	4.41	140	5.51
F-S94118	94	3.70	98	3.86	106	4.17	118	4.65	136	5.35	163	6.42
-S118130	118	4.65	121	4.76	125	4.92	130	5.12	148	5.83	175	6.89
-S127150	127	5.00	131	5.16	139	5.47	150	5.91	168	6.61	200	7.87

Trefoil Cable Cleat FF-T

Technical data and selection table.



Yuanxin Trefoil Cable Cleats FF-T

FF-T Trefoil Cable Cleats										
Part Number	Cable Diameter Range						Dimension			
	Min. Dia.		Mid. Dia.		Max. Dia.		H		W	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
FF-T1323	13	0.51	/	/	23	0.91	77	3.03	73	2.87
FF-T2125	21	0.83	23	0.91	25	0.98	80	3.15	77	3.03
FF-T2329	23	0.91	25	0.98	29	1.14	86	3.39	84	3.31
FF-T2531	25	0.98	27	1.06	31	1.22	90	3.54	87	3.43
FF-T2733	27	1.06	30	1.18	33	1.30	95	3.74	90	3.54
FF-T2935	29	1.14	32	1.26	35	1.38	97	3.82	94	3.70
FF-T3238	32	1.26	34	1.34	38	1.50	103	4.06	100	3.94
FF-T3239	32	1.26	36	1.42	39	1.54	107	4.21	98	3.86
FF-T3541	35	1.38	38	1.50	41	1.61	109	4.29	105	4.06
FF-T3844	38	1.50	41	1.61	44	1.73	113	4.45	108	4.25
FF-T4248	42	1.65	45	1.77	48	1.89	121	4.76	113	4.45
FF-T4551	45	1.77	48	1.89	51	2.01	126	4.96	120	4.72
FF-T4753	47	1.85	50	1.97	53	2.09	129	5.08	121	4.76
FF-T4955	49	1.93	51	2.01	55	2.17	133	5.24	128	5.04
FF-T5157	51	2.01	53	2.09	57	2.24	138	5.43	130	5.12
FF-T5359	53	2.09	55	2.17	59	2.32	140	5.51	134	5.28
FF-T5561	55	2.17	57	2.24	61	2.40	142	5.59	139	5.47
FF-T5763	57	2.24	61	2.40	63	2.48	145	5.71	144	5.67
FF-T5965	59	2.32	62	2.44	65	2.56	147	5.79	148	5.83
FF-T6167	61	2.40	64	2.52	67	2.64	150	5.91	153	6.02
FF-T6369	63	2.48	66	2.60	69	2.72	154	6.06	158	6.22
FF-T6571	65	2.56	67	2.64	71	2.80	158	6.22	162	6.38
FF-T6773	67	2.64	70	2.76	73	2.87	162	6.38	166	6.54
FF-T6975	69	2.72	73	2.87	75	2.95	166	6.54	170	6.69
FF-T7177	71	2.80	75	2.95	77	3.03	170	6.69	174	6.85
FF-T7379	73	2.87	77	3.03	79	3.11	174	6.85	178	7.01
FF-T7581	75	2.95	79	3.11	81	3.19	178	7.01	182	7.17
FF-T7783	77	3.03	81	3.19	83	3.27	181	7.13	186	7.32
FF-T7985	79	3.11	83	3.27	85	3.35	184	7.24	191	7.52
FF-T8187	81	3.19	84	3.31	87	3.43	192	7.56	201	7.91
FF-T8389	83	3.27	87	3.43	89	3.50	201	7.91	210	8.27
FF-T8896	88	3.46	92	3.62	96	3.78	209	8.23	220	8.66
FF-T96103	96	3.78	100	3.94	103	4.06	218	8.58	229	9.02
FF-T103111	103	4.06	107	4.21	111	4.37	234	9.21	247	9.72
FF-T111119	111	4.37	115	4.53	119	4.69	250	9.84	265	10.43
FF-T119128	119	4.69	124	4.88	128	5.04	266	10.47	283	11.14

Single Cable Cleat FF-S

Technical data and selection table.



Yuanxin Single Cable Cleats FF-S

FF-S Single Cable Cleats												
Part Number	Cable Diameter Range								Dimension			
	Min. Dia.		Mid. Dia.				Max. Dia.		H		W	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
FF-S2832	28	1.10	/	/	/	/	32	1.26	67	2.64	76	2.99
FF-S3034	30	1.18	/	/	/	/	34	1.34	69	2.72	77	3.03
FF-S3236	32	1.26	/	/	/	/	36	1.42	71	2.80	78	3.07
FF-S3438	34	1.34	/	/	/	/	38	1.50	73	2.87	80	3.15
FF-S3640	36	1.42	/	/	/	/	40	1.57	75	2.95	81	3.19
FF-S3842	38	1.50	/	/	/	/	42	1.65	77	3.03	83	3.27
FF-S4044	40	1.57	/	/	/	/	44	1.73	79	3.11	85	3.35
FF-S4246	42	1.65	/	/	/	/	46	1.81	80	3.15	88	3.46
FF-S4448	44	1.73	/	/	/	/	48	1.89	82	3.23	90	3.54
FF-S4650	46	1.81	/	/	/	/	50	1.97	84	3.31	92	3.62
FF-S4852	48	1.89	/	/	/	/	52	2.05	85	3.35	94	3.70
FF-S5054	50	1.97	/	/	/	/	54	2.13	85	3.35	96	3.78
FF-S5256	52	2.05	/	/	/	/	56	2.20	87	3.43	97	3.82
FF-S5458	54	2.13	/	/	/	/	58	2.28	88	3.46	99	3.90
FF-S5660	56	2.20	/	/	/	/	60	2.36	90	3.54	100	3.94
FF-S5862	58	2.28	/	/	/	/	62	2.44	92	3.62	102	4.02
FF-S6064	60	2.36	/	/	/	/	64	2.52	93	3.66	105	4.13
FF-S6266	62	2.44	/	/	/	/	66	2.60	94	3.70	107	4.21
FF-S6468	64	2.52	/	/	/	/	68	2.68	96	3.78	109	4.29
FF-S6670	66	2.60	/	/	/	/	70	2.76	98	3.86	112	4.41
FF-S6872	68	2.68	/	/	/	/	72	2.83	98	3.86	112	4.41
FF-S7074	70	2.76	/	/	/	/	74	2.91	100	3.94	115	4.53
FF-S7276	72	2.83	/	/	/	/	76	2.99	103	4.06	117	4.61
FF-S7478	74	2.91	/	/	/	/	78	3.07	105	4.13	120	4.72
FF-S7680	76	2.99	/	/	/	/	80	3.15	107	4.21	122	4.80
FF-S7882	78	3.07	/	/	/	/	82	3.23	109	4.29	124	4.88
FF-S8084	80	3.15	/	/	/	/	84	3.31	112	4.41	126	4.96
FF-S8286	82	3.23	/	/	/	/	86	3.39	114	4.49	128	5.04
FF-S8488	84	3.31	/	/	/	/	88	3.46	116	4.57	130	5.12
FF-S8690	86	3.39	/	/	/	/	90	3.54	118	4.65	132	5.20
FF-S9094	90	3.54	/	/	/	/	94	3.70	123	4.84	137	5.39
FF-S94118	94	3.70	98	3.86	106	4.17	118	4.65	135	5.31	148	5.83
FF-S118130	118	4.65	123	4.84	127	5.00	130	5.12	152	5.98	171	6.73
FF-S127150	127	5.00	131	5.16	139	5.47	150	5.91	168	6.61	194	7.64

Trefoil Cable Cleat FF-T

Technical data and selection table.

Yuanxin Trefoil Cable Cleats FF-T
(Special Customised Model)



FF-T Trefoil Cable Cleats										
Part Number	Cable Diameter Range						Dimension			
	Min. Dia.		Mid. Dia.		Max. Dia.		H		W	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
FF-T2026	20	0.79	23	0.91	26	1.02	81	3.19	81	3.19
FF-T2228	22	0.87	24	0.94	28	1.10	84	3.31	83	3.27
FF-T2631	26	1.02	29	1.14	31	1.22	89	3.50	88	3.46
FF-T3035	30	1.18	32	1.26	35	1.38	97	3.82	94	3.70
FF-T3239	32	1.26	36	1.42	39	1.54	107	4.21	98	3.86
FF-T3338	33	1.30	35	1.38	38	1.50	96	3.78	102	4.02
FF-T3642	36	1.42	40	1.57	42	1.65	110	4.33	104	4.09
FF-T4046	40	1.57	43	1.69	46	1.81	119	4.69	108	4.25
FF-T5156	51	2.01	53	2.09	56	2.20	120	4.72	130	5.12
FF-T5159	51	2.01	54	2.12	59	2.32	140	5.51	136	5.35

Single Cable Cleat FF-VRT / FF-VRS

Technical data and selection table.

Yuanxin Trefoil Cable Cleats FF-VRT



FF-T Trefoil Cable Cleats										
Part Number	Cable Diameter Range						Dimension			
	Min. Dia.		Mid. Dia.		Max. Dia.		H		W	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
-VRT1924	19	0.75	22	0.87	24	0.94	79	3.11	55	2.17
-VRT2026	20	0.79	23	0.91	26	1.02	84	3.31	59	2.32
-VRT2228	22	0.87	25	0.98	28	1.10	88	3.46	63	2.48
-VRT2631	26	1.02	29	1.14	31	1.22	94	3.70	69	2.71
-VRT3035	30	1.18	33	1.30	35	1.38	100	3.94	77	3.03
-VRT3239	32	1.26	36	1.42	39	1.54	109	4.29	85	3.70
-VRT3642	36	1.42	38	1.50	42	1.65	113	4.45	91	3.27
							121	4.76	99	3.58
							147	5.79	125	3.90

Single Cable Cleat FF-VRS

Technical data and selection table.



Yuanxin Single Cable Cleats FF-VRS

FF-S Single Cable Cleats												
Part Number	Cable Diameter Range								Dimension			
	Min. Dia.		Mid. Dia.				Max. Dia.		H		W	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
FF-VRS1930	19	0.75	21.5	0.85	24	0.94	30	1.18	74	2.91	52	2.05
FF-VRS3042	30	1.18	32	1.26	38	1.50	42	1.65	90	3.54	56	2.20

Quad Cable Cleat FF-Q

Technical data and performance table.

Yuanxin Quad Cable Cleats FF-Q



Performance on the Quad Cable Cleats		IEC 61914:2021
Resistance to Electromechanical Force	Test Cable Outer Dia :37mm	
	9.5.2 185kA Peak 300mm Spacing	
	one time 0.1s 47.2kN	
	9.5.3 130kA Peak 600mm Spacing	
	two times 0.1s 46.6kN	

FF-Q Quad Cable Cleats										
Part Number	Cable Diameter Range						Dimension			
	Min. Dia.		Mid. Dia.		Max. Dia.		H		W	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
FF-Q1822	18	0.71	20	0.79	22	0.87	92	3.62	61	2.40
FF-Q2428	24	0.94	26	1.02	28	1.10	104	4.09	73	2.87
FF-Q3034	30	1.18	32	1.26	34	1.34	116	4.57	85	3.35
FF-Q3640	36	1.42	38	1.50	40	1.57	128	5.04	97	3.81
FF-Q4246	42	1.65	44	1.73	46	1.81	140	5.51	109	4.29
FF-Q4852	48	1.89	50	1.97	52	2.05	152	5.98	121	4.76
FF-Q5458	54	2.13	56	2.20	58	2.28	162	6.38	133	5.24
FF-Q6064	60	2.36	62	2.44	64	2.52	176	6.93	145	5.71
FF-Q6670	66	2.60	68	2.68	70	2.76	188	7.40	157	6.18

PPA Coated Band

Technical data and product application information.



► Technical Information

- Material: Stainless Steel Grade 316
- Working Temp.: -80°C to 538°C
- Description: Entirely Metallic
- Flammability: Fireproof
- Other Properties: UV-resistant.

► Product Feature

- Compared to the cable cleats, significantly lower cost.
- Accommodates variations in cable diameter.
- Smooth surface with rounded edges, and using with the inner lining belt, can reduce risk of cable insulation damage.



Item No.	Width		Length		Thickness		Double Wrap	Max. Bundle Dia.		Min.Tensile Strength		Pack Qty.
	mm	inch	mm	inch	mm	inch		mm	inch	KN	lbs	Piece
JZFWS-19*400	19.05	0.75	400	15.75	0.76	0.03	Double	37	1.46	Single Wrap 10680	Single Wrap 2400	25/50
JZFWS-19*450			450	17.72			Double	45	1.77			
JZFWS-19*500			500	19.69			Double	53	2.09			
JZFWS-19*550			550	21.65			Double	61	2.40			
JZFWS-19*600			600	23.62			Double	69	2.72			
JZFWS-19*650			650	25.59			Double	77	3.03			
JZFWS-19*700			700	27.56			Double	85	3.35			
JZFWS-19*750			750	29.53			Double	93	3.66			
JZFWS-19*800			800	31.50			Double	101	3.98	Double Wrap 19000	Double Wrap 4270	
JZFWS-19*850			850	33.46			Double	109	4.29			
JZFWS-19*900			900	35.43			Double	117	4.61			
JZFWS-19*950			950	37.40			Double	125	4.92			
JZFWS-19*1000			1000	39.37			Double	133	5.24			
JZFWS-19*1050			1050	41.34			Double	141	5.55			
JZFWS-19*1100			1100	43.31			Double	149	5.87			
JZFWS-19*1150			1150	45.28			Double	157	6.18			
JZFWS-19*1200			1200	47.24			Double	165	6.50			

- Other lengths available, contact Customer Service.

PPA Coated Band

Features, installation notes and application benefits.

Approved Certificate: ABS

Product Description: Cable Fixing Band and Clips

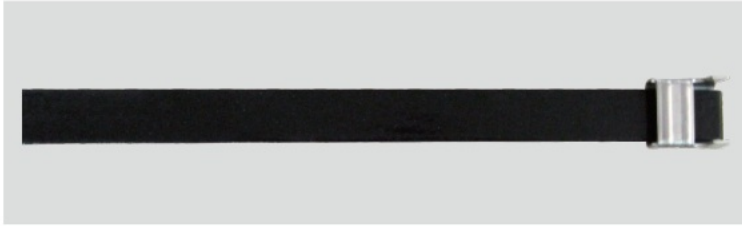
The Lower Cost Alternative to Cable Cleats

Product Benefits

- Low profile finish
- 316 grade stainless steel
- PPA571 coating
- Zero Halogen, Low Smoke& Fume
- ABS Approved Materials
- Logistical and handling benefits (easier to move around site in bulk)
- Standard width 5/8"(15.9mm) - other widths available
- Standard colour: Black - other colours available
- Captive sealing clip
- Fully rounded edges
- Round profile on end of band
- Improve health & safety during installation

Compared to the Cable Cleats

- Significantly lower cost
- Significant weight reduction
- Reduced inventory - one size fits all
- No accessories required, like fixing, liners, packers, studding, etc
- Accommodates variations in cable diameter
- Reduced environmental impact during manufacture/ transportation/ decommissioning
- 50% labour saving versus cleats
- Easy application using Hand Tool
- The product meets the IEC61914 standard



Cable Cleat Selection Overview

Related cable management products.

Item No.								Max. Bundle Dia.		Min.Tensile Strength		Pack Qty.
	mm	inch	mm	inch	mm	inch		mm	inch	N	lbs	Piece
FZLSPAP-15.9*400	15.9	0.63	400	15.75	1.2	0.047	Double	40	1.57	14600	3280	100
FZLSPAP-15.9*450			450	17.72			Double	48	1.88			
FZLSPAP-15.9*500			500	19.69			Double	56	2.19			
FZLSPAP-15.9*550			550	21.65			Double	64	2.51			
FZLSPAP-15.9*600			600	23.62			Double	72	2.82			
FZLSPAP-15.9*650			650	25.59			Double	80	3.13			
FZLSPAP-15.9*700			700	27.56			Double	88	3.45			
FZLSPAP-15.9*750			750	29.53			Double	96	3.76			
FZLSPAP-15.9*800			800	31.50			Double	104	4.07			
FZLSPAP-15.9*850			850	33.46			Double	111	4.39			
FZLSPAP-15.9*900			900	35.43			Double	119	4.70			
FZLSPAP-15.9*950			950	37.40			Double	127	5.02			
FZLSPAP-15.9*1000			1000	39.37			Double	135	5.33			
FZLSPAP-15.9*1050			1050	41.34			Double	143	5.64			
FZLSPAP-15.9*1100			1100	43.31			Double	151	5.96			
FZLSPAP-15.9*1150			1150	45.28			Double	159	6.27			
FZLSPAP-15.9*1200			1200	47.24			Double	167	6.58			

- Other lengths available, contact yuanxin Customer Service.-

You may also want products below:



PPA Coated Bands



Thicker L Type Buckle



LQD Clamping Tool



LQD-S Clamping Tool