

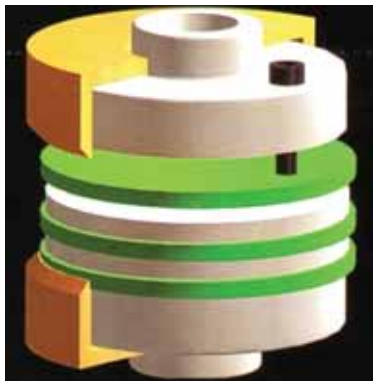
INSULATING LINKS, ISO/LINK AC & DC

Proven Performance in Hi-Voltage & Hi-Current Environments

Miller ISO/Link® insulating links are the product of five decades of experience in protection from unwanted electrical discharges in AC or DC environments, while at the same time offering the rugged and secure lifting capability Miller has always been known for.

ISO/Link-AC® = POWER LINE SAFETY

ISO/Link-AC® insulating links protect workers from the leading cause of electrical injury in the workplace, accidental contact between crane booms and overhead power lines. Made of durable high-performance materials, ISO/Link-AC insulating links are rated for 25,000 AC volts. Permanently sealed construction prevents the absorption of moisture and other contaminants. A low-profile alloy steel interlocking matrix insures reliable performance under the most demanding conditions without requiring excessive length. Designed for use in construction, refineries, utility work, and various manufacturing applications, Miller AC insulating links employ a tough, polyurethane dielectric that surpasses natural rubber in durability and electrical resistance. Available to working loads of 60 tons with a design safety factor of 5:1.



ISO/Link-DC®

ISO/Link-DC® insulating links are specially designed for use in the smelting industry or wherever high DC current is a threat, e.g., industrial welding. The high temperatures, high duty cycle and strong magnetic fields found in smelting environments were all taken into consideration during the development of this addition to the ISO/Link Series. By incorporating a G-10 glass fiber dielectric, the ISO/Link-DC can withstand continuous temperatures as high as 130°C. Each link is tested to 10,000 Volts DC and rated to 1,000 Volts DC. Factory rebuild is possible. Because of its maintenance-oriented design, the ISO/Link-DC is not sealed and is intended for interior use only. Available to working loads of 60 tons with a design safety factor of 5:1.

INSU-LINE® TAG LINE INSULATOR

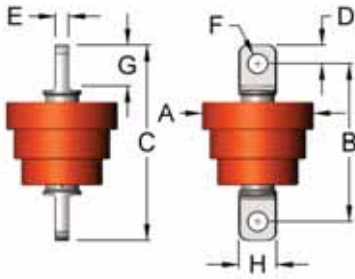
For tag line use in load handling, where high voltage is a safety concern. Adapted by Miller from proven power distribution insulator technology. Fiberglass core for high strength to-weight ratio and shatter resistance. Hydrophobic polymer sheath and sheds promote dirt and dust resistance. Every unit is factory proof tested with electrical test certificate available. *Miller INSU-LINE® tag line insulators are not to be used for lifting. Only use tag line insulators with non-conductive tag lines for protection of your ground crew. For lifting applications use Miller's ISO/Link insulating link. ORDER PART NUMBER M135502001.*



SPECIFICATIONS	
Rated Voltage	50 KV rms
Dry Flashover	110 KV @ 60 Hz.
Dry Withstand	100 KV @ 60 Hz.
Wet Flashover	75 KV @ 60 Hz.
Wet Withstand	65 KV @ 60 Hz.
Leakage Current (dry)	<0.05 mA at 50 KV
Leakage Distance	16 in.
Braking Load (information only)	15,000 lbs.
Operating Load	Not for lifting- Tag line use only
Operating TEMP	- 50 F to 150 F
Weight	2 lbs.
Length (hole to hole)	12 in.
Attachment Hole Size	1 in.
NOT LIGHTNING PROOF / NOT FOR LIFTING	

INSULATING LINKS, NON SWIVELING, ISO/LINK-AC

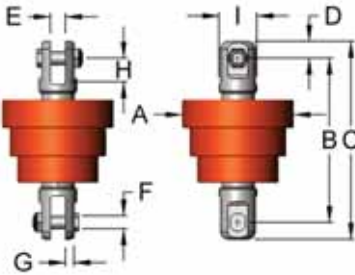
EYE TO EYE



WLL* Tons	Model	A**	B	C	D	E	F	G	H	Weight Lbs.
5	2VD2	7.38	10.50	13.00	1.25	0.88	1.28	2.75	2.50	19
10	2VE2	8.63	14.50	17.75	1.63	1.63	1.66	3.75	3.75	60
25	2VG2	11.88	19.50	24.25	2.38	2.22	2.53	5.50	5.00	150
60	2VJ2	12.38	22.75	29.25	3.25	3.00	2.91	7.00	6.50	250

Dimensions in Inches(in), * 5:1 Design Factor, ** Link profile varies depending on WLL

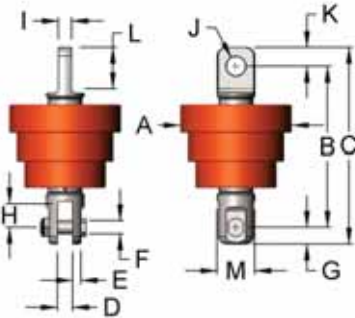
CLEVIS TO CLEVIS



WLL* Tons	Model	A**	B	C	D	E	F	G	H	I	Weight Lbs.
5	1VD1	7.38	10.88	13.13	1.13	1.00	0.88	0.56	1.56	2.50	21
10	1VE1	8.63	16.88	20.38	1.75	1.75	1.50	0.81	3.00	4.00	70
25	1VG1	11.88	21.13	25.88	2.38	2.00	2.00	1.13	3.69	5.00	160
60	1VJ1	12.38	26.25	32.75	3.25	3.00	2.50	1.50	4.00	7.00	290

Dimensions in Inches(in), * 5:1 Design Factor, ** Link profile varies depending on WLL

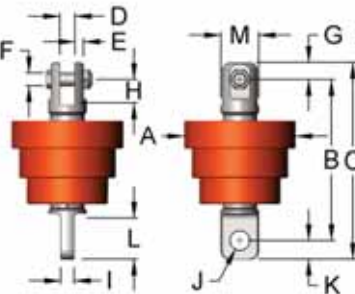
EYE TO CLEVIS



WLL* Tons	Model	A**	B	C	D	E	F	G	H	I	J	K	L	M	Weight Lbs.
5	2VD1	7.38	10.69	13.06	1.00	0.56	0.88	1.13	1.56	0.88	1.28	1.25	2.75	2.50	20
10	2VE1	8.63	15.69	19.06	1.75	0.81	1.50	1.75	3.00	1.63	1.66	1.63	3.75	4.00	65
25	2VG1	11.88	20.31	25.06	2.00	1.13	2.00	2.38	3.69	2.22	2.53	2.38	5.50	5.00	155
60	2VJ1	12.38	24.50	31.00	3.00	1.50	2.50	3.25	4.00	3.00	2.91	3.25	7.00	7.00	270

Dimensions in Inches(in), * 5:1 Design Factor, ** Link profile varies depending on WLL

CLEVIS TO EYE

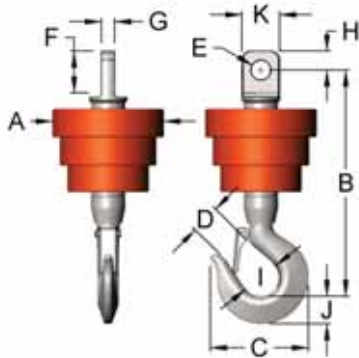


WLL* Tons	Model	A**	B	C	D	E	F	G	H	I	J	K	L	M	Weight Lbs.
5	1VD2	7.38	10.69	13.06	1.00	0.56	0.88	1.13	1.56	0.88	1.28	1.25	2.75	2.50	20
10	1VE2	8.63	15.69	19.06	1.75	0.81	1.50	1.75	3.00	1.63	1.66	1.63	3.75	4.00	65
25	1VG2	11.88	20.31	25.06	2.00	1.13	2.00	2.38	3.69	2.22	2.53	2.38	5.50	5.00	155
60	1VJ2	12.38	24.50	31.00	3.00	1.50	2.50	3.25	4.00	3.00	2.91	3.25	7.00	7.00	270

Dimensions in Inches(in), * 5:1 Design Factor, ** Link profile varies depending on WLL

INSULATING LINKS, NON SWIVELING, ISO/LINK-AC

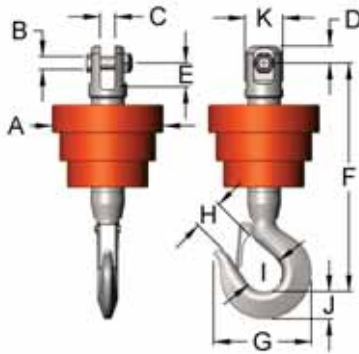
EYE TO HOOK



WLL* Tons	Model	A**	B	C	D	E	F	G	H	I	J	K	Weight Lbs.
5	2VD5	7.38	14.94	6.28	1.78	1.28	2.75	0.88	1.25	2.50	1.82	2.50	25
10	2VE5	8.63	18.39	8.34	2.63	1.66	3.75	1.63	1.63	3.25	2.60	3.75	70
25	2VG5	11.88	26.05	11.56	3.15	2.53	5.50	2.22	2.38	3.94	3.74	5.00	185
60	2VJ5	12.38	33.44	17.00	4.92	2.91	7.00	3.00	3.25	6.30	5.91	6.50	420

Dimensions in Inches(in), *5:1 Design Factor, **Link profile varies depending on WLL

CLEVIS TO HOOK



WLL* Tons	Model	A**	B	C	D	E	F	G	H	I	J	K	Weight Lbs.
5	1VD5	7.38	0.88	1.00	1.13	1.56	15.06	6.28	1.78	2.50	1.82	2.50	26
10	1VE5	8.63	1.50	1.75	1.75	3.00	19.57	8.34	2.63	3.25	2.60	4.00	75
25	1VG5	11.88	2.00	2.00	2.38	3.69	26.87	11.56	3.15	3.94	3.74	5.00	190
60	1VJ5	12.38	2.50	3.00	3.25	4.00	35.20	17.00	4.92	6.30	5.91	7.00	440

Dimensions in Inches(in), *5:1 Design Factor, **Link profile varies depending on WLL

CUSTOM APPLICATIONS



**Wire Rope
Thimble**



**Oversized Clevis
and Pin for use
with Synthetic
Slings**



**Swivel Hoist
Ring**



**Threaded
Stud Adaptor
with Nut**

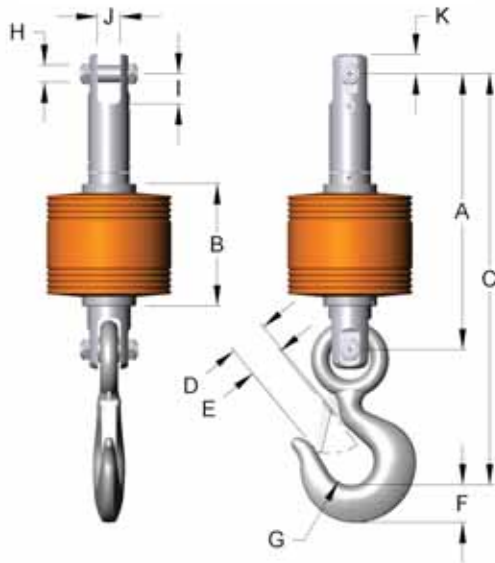


Forged Eye Nut

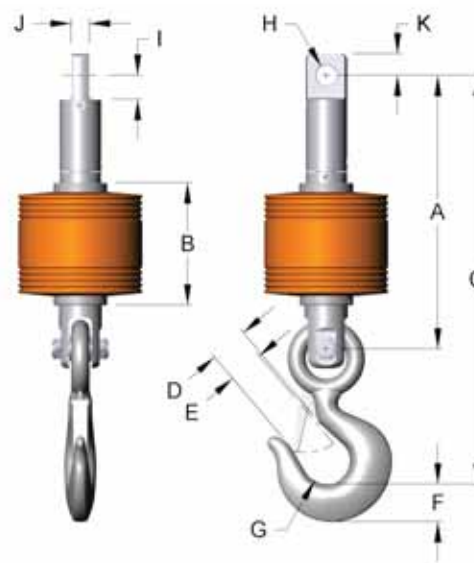
Other configurations available by request. Also available ISO-Blocks and ISO/LINK-AC assemblies using Miller Y-Link Angular Contact Swivel.

INSULATING LINKS, SWIVELING, ISO/LINK-AC

CLEVIS TO HOOK – TYPE 1



EYE TO HOOK – TYPE 2



CLEVIS TO HOOK, SWIVELING - TYPE 1

WLL	Model Number	ROPE	A	B	C	D	E	F	G	H	I	J	K	WEIGHT	LINK DIA	SWIVEL
3	ML6C-1	1/2	13.03	6.13	18.44	1.47	1.36	1.44	2	0.75	1.19	0.75	0.94	25	7.38	C-113
5	ML6D-1	5/8	15	6.13	21.75	1.75	1.61	1.81	2.5	0.88	1.56	1	1.13	33	7.38	D-113
5	ML8D-1	5/8	17.38	8.5	24.75	1.75	1.61	1.81	2.5	0.88	1.56	1	1.13	77	8.63	D-113
8.5	ML8E-1	3/4	18.94	8.5	28.25	2.5	2.27	2.59	3.25	1.19	2.13	1.56	1.25	96	8.63	EE-113
10	ML8G-1	7/8	24	8.5	35.13	3.3	3.02	3.00	4.25	1.5	3.5	1.75	1.75	144	8.63	G-113
15	ML12GG-1	1	26	10.5	37.13	3.3	3.02	3.00	4.25	1.5	3.5	1.75	1.75	247	11.88	GG-113
25	ML12H-1	1-1/8	28.25	10.5	45.19	4	3.25	3.62	5	2	3.69	2	2.38	342	11.88	H-113
35	ML12.5HH-1	1-1/4	28.25	12.25	45.19	4.25	3	4.56	5.38	2	3.69	2	2.38	370	12.5	HH-113
45	ML12.5I-1		32	12.25	50.94	4.75	3.38	5.06	6	2.25	4	2.5	3.00	475	12.5	I-113
60	ML12.5JJ-1		32.25	12.25	55	5.75	4.12	6.00	7	2.5	4.5	3	3.50	620	12.5	JJ-113

* Design factor = 5:1 except for units 45T and higher where Design factor = 4:1 minimum

EYE TO HOOK, SWIVELING - TYPE 2

WLL	Model Number	ROPE	A	B	C	D	E	F	G	H	I	J	K	WEIGHT	LINK DIA	SWIVEL
3	ML6C-2	1/2	13	6.13	18.5	1.47	1.36	1.44	2	0.91	4	0.75	1.00	25	7.38	C-213
5	ML6D-2	5/8	14.94	6.13	21.69	1.75	1.61	1.81	2.5	1.28	1.31	1.00	1.19	33	7.38	D-213
5	ML8D-2	5/8	17.31	8.5	24.69	1.75	1.61	1.81	2.5	1.28	1.31	1	1.19	77	8.63	D-213
8.5	ML8E-2	3/4	18.75	8.5	28.06	2.5	2.27	2.59	3.25	1.41	1.63	1.25	1.50	96	8.63	EE-213
10	ML8G-2	7/8	23.94	8.5	36.06	3.3	3.02	3.00	4.25	1.66	2.84	1.75	1.81	144	8.63	G-213
15	ML12GG-2	1	25.94	10.5	37.06	3.3	3.02	3.00	4.25	2.03	2.84	2	2.13	247	11.88	GG-213
25	ML12H-2	1-1/8	28.25	10.5	45.19	4	3.25	3.62	5	2.31	2.88	2.25	2.38	342	12.5	H-213
35	ML12.5HH-2	1-1/4	28.25	12.25	45.19	4.25	3	4.56	5.38	2.31	2.88	2.25	2.38	370	12.5	HH-213
45	ML12.5I-2		32	12.25	50.94	4.75	3.38	5.06	6	2.53	3.5	2.5	3.00	475	12.5	I-213
60	ML12.5JJ-2		32.25	12.25	55	5.75	4.12	6.00	7	2.88	4	2.5	3.5	620	12.5	JJ-213

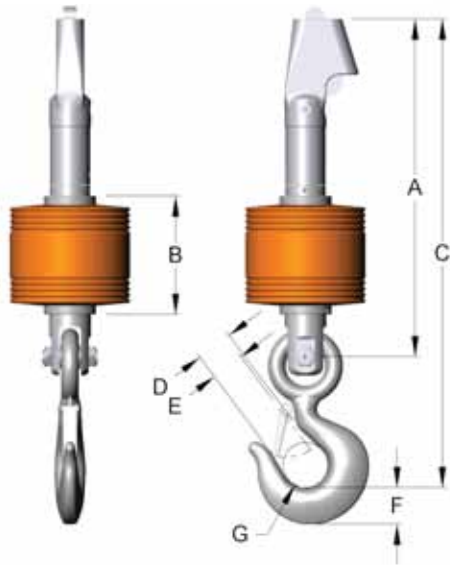
* Design factor = 5:1 except for units 45T and higher where Design factor = 4:1 minimum

Rated maximum voltage 25KVAC (dry); operating temperature -50° to 150°F.

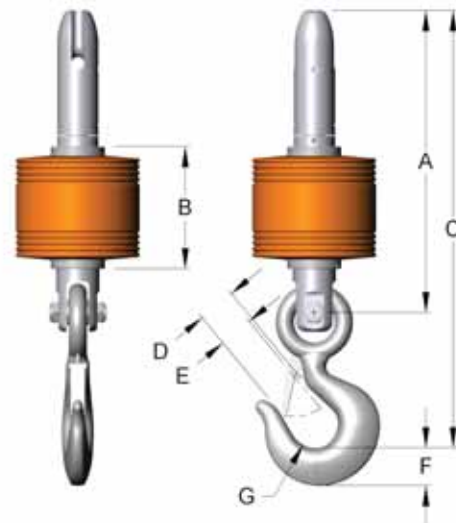
Link cleanliness is very important. Electrical performance degrades when surface is dirty. See maintenance instructions. Use of an insulating link is one of a number of measures required for comprehensive power line safety. Use of an insulating link. Alone, in absence of other required measures is not acceptable. See 29 CFR Part 1926 for the latest OSHA requirements.

INSULATING LINKS, SWIVELING, ISO/LINK-AC

WEDGE TO HOOK – TYPE 3



THIMBLE TO HOOK – TYPE 4



WEDGE TO HOOK, SWIVELING - TYPE 3

WLL	Model Number	ROPE	A	B	C	D	E	F	G	WEIGHT	LINK DIA	SWIVEL
3	ML6C-3	1/2	17.19	6.13	22.56	1.47	1.36	1.44	2	27	7.38	C-713
5	ML6D-3	1/2, 5/8	19.63	6.13	27.94	1.75	1.61	1.81	2.5	36	7.38	D-713
5	ML8D-3	1/2, 5/8	22	8.5	29.38	1.75	1.61	1.81	2.5	80	8.63	D-713
8.5	ML8E-3	1/2, 5/8, 3/4	23.94	8.5	33	2.5	2.27	2.59	3.25	102	8.63	E-713
10	ML8G-3	3/4, 7/8, 1	27.75	8.5	38.88	3.3	3.02	3.00	4.25	151	8.63	G-713
10	ML12GG-3	3/4, 7/8, 1	29.75	10.5	40.88	3.3	3.02	3.00	4.25	254	11.88	GG-713

* Design factor = 5:1 except for units 45T and higher where Design factor = 4:1 minimum

THIMBLE TO HOOK, SWIVELING - TYPE 4

WLL	Model Number	ROPE	A	B	C	D	E	F	G	WEIGHT	LINK DIA	SWIVEL
3	ML6C-4	1/2	14.84	6.13	20.25	1.47	1.36	1.44	2	26	7.38	C-413
5	ML6D-4	5/8	16.38	6.13	24.81	1.75	1.61	1.81	2.5	34	7.38	D-613
5	ML8D-4	5/8	16	8.5	23.38	1.75	1.61	1.81	2.5	78	8.63	D-613
8.5	ML8E-4	3/4	20.69	8.5	30	2.5	2.27	2.59	3.25	98	8.63	E-813
10	ML8G-4	7/8	25.5	8.5	36.63	3.3	3.02	3.00	4.25	148	8.63	G-613
15	ML12GG-4	1	27.5	10.5	38.63	3.3	3.02	3.00	4.25	251	11.88	GG-613

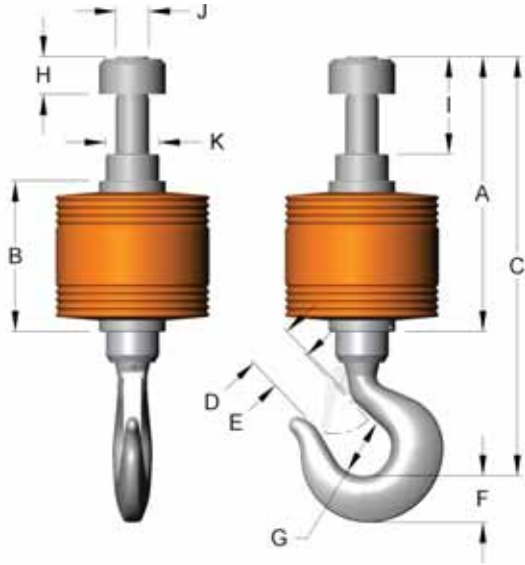
* Design factor = 5:1 except for units 45T and higher where Design factor = 4:1 minimum

Rated maximum voltage 25KVAC (dry); operating temperature -50° to 150°F.

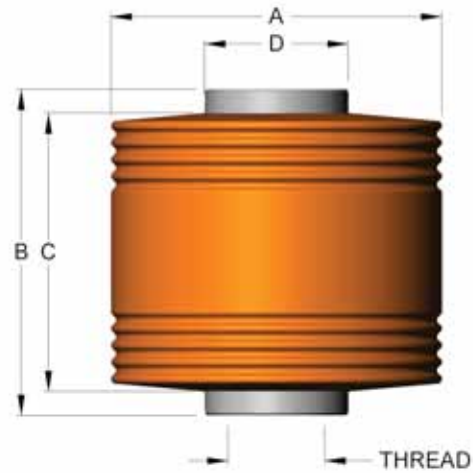
Link cleanliness is very important. Electrical performance degrades when surface is dirty. See maintenance instructions. Use of an insulating link is one of a number of measures required for comprehensive power line safety. Use of an insulating link. Alone, in absence of other required measures is not acceptable. See 29 CFR Part 1926 for the latest OSHA requirements.

INSULATING LINKS, SWIVELING, ISO/LINK-AC

NON-SWIVELING STUD TO HOOK - TYPE 14



LINK ONLY



NON-SWIVELING, STUD TO HOOK - TYPE 14

WLL	Model Number	A	B	C	D	E	F	G	H	I	J	K
5	ML6-14-5-11	12.13	6.25	18.38	2.5	2.25	2.6	3.25	1.38	3.38	1.62-12	2.25
5	ML8-14-5-1	14.63	8.5	23.06	2.62	2.41	2.6	3.25	1.56	4.63	1.25-7	3
10	ML8-14-10	13.5	8.5	21.94	2.62	2.41	2.6	3.25	1.31	3.5	1.62-12	3
15	ML12-14-15	16.94	10.5	27.81	3.41	3.19	3.01	4.25	1.56	4.38	1.77-12	4
25	ML12-14-25	18.31	10.5	30.06	4.75	3.38	5.06	6	2.56	5.31	2.25-12	4
35	ML12.5-14-35	23	12.25	35.5	4.25	3	4.56	5.38	3	7.75	2.5-12	4.75
60	ML12.5-14-60	25.5	12.25	38.5	6.5	5.38	6.69	7.75	5.13	10.38	4.0-12	4.5

* Design factor = 5:1

AC LINK ONLY

WLL	Model Number	A	B	C	D	THREAD	WEIGHT
5	VD	7.38	6.25	5.5	2.25	1.68-12UN	13.7
10	VE	8.62	8.5	7.26	3.75	2.50-8UN	41
25	VG	11.88	10.5	8.75	4.5	3.25-8UN	95
60	VJJ	12.38	12.25	9.75	5.75	4.00-8UN	150

* Design factor = 5:1

Rated maximum voltage 25KVAC (dry); operating temperature -50° to 150°F.

Link cleanliness is very important. Electrical performance degrades when surface is dirty. See maintenance instructions. Use of an insulating link is one of a number of measures required for comprehensive power line safety. Use of an insulating link. Alone, in absence of other required measures is not acceptable. See 29 CFR Part 1926 for the latest OSHA requirements.