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ISO/Link-AC®

INSPECTION AND MAINTENANCE REQUIREMENTS FOR MILLER ISO/LINK-AC

ALL MILLER ISO/LINK-AC INSULATING LINKS ARE RATED FOR 25KV

<u>INSPECTION FREQUENCY</u>	<u>INSPECTION ITEM</u>	<u>WHAT TO CHECK FOR</u>	<u>APPROPRIATE ACTION TO TAKE</u>
EACH USE	CLEANLINESS VISUAL	DIRT, MUD, <u>ANY</u> CONTAMINANT	BRUSH AND WIPE 100% OF EXTERIOR SURFACES CLEAN WITH DAMP CLOTH AND THEN DRY CLOTH. ELECTRICAL PERFORMANCE OF INSULATING LINK DEGRADES WHEN SURFACE IS DIRTY.
DAILY	SET SCREWS	TIGHTNESS	ASSURE SETSCREWS WHICH SECURE UPPER AND LOWER FITTINGS ARE TIGHT AND STAKED.
DAILY	MECHANICAL INTEGRITY POLYMER	CRACKS OR OTHER DEFORMATION	PRESENCE OF ANY CRACKS OR DEFORMATION OF THE ORANGE EXTERIOR POLYMER JACKET REQUIRES THAT THE LINK BE REMOVED FROM SERVICE IMMEDIATELY. *
DAILY	MECHANICAL INTEGRITY STRUCTURAL	CRACKS OR OTHER DEFORMATION	PRESENCE OF ANY CRACKS OR DEFORMATION OF METALLIC AREAS REQUIRES THAT THE LINK BE REMOVED FROM SERVICE IMMEDIATELY. *
ANNUALLY	ELECTRICAL INTEGRITY	DIELECTRIC PERFORMANCE	PERFORM ANNUAL HIGH VOLTAGE TEST WITH CERTIFIED TEST REPORT BY UNIT SERIAL NUMBER. **

IN CASE OF MECHANICAL DAMAGE OR HIGH-VOLTAGE CONTACT EVENT:

***MECHANICAL INTEGRITY:** SHOULD THE ISO/LINK-AC DISPLAY DEFORMATION NOT EXCEEDING 5% OF ANY FACTORY DIMENSION THE LINK MAY BE RETURNED TO SERVICE SUBJECT TO THE FOLLOWING CONDITIONS:

1. TEST UNDER LOAD OF 2 TIMES THE WORKING LOAD LIMIT WITH NO ADDITIONAL DEFORMATION.
2. NO CRACKS ALLOWED. SCRAP LINK IF ANY CRACKS IN UPPER AND LOWER METALLIC AREAS OR IN ORANGE POLYMER AREA. CONTACT MILLER IF FURTHER INTERPRETATION IS NEEDED.
3. ACCEPTABLE HIGH VOLTAGE TEST (SEE BELOW**)

****DIELECTRIC PERFORMANCE:** THE FOLLOWING TEST IS TO BE PERFORMED ANNUALLY OR IN THE EVENT OF MECHANICAL DAMAGE OR A HIGH-VOLTAGE EVENT. THIS TESTING SHOULD BE PERFORMED BY A QUALIFIED TEST LABORATORY.

1. APPLY VOLTAGE TO LINK ONLY. REMOVE ANY UPPER OR LOWER ATTACHMENTS.
2. APPLY 60 HZ. AC VOLTAGE ACROSS LINK UPPER AND LOWER THREADED CONNECTIONS INCREASING VOLTAGE AT A RATE OF 500 VOLTS PER SECOND UNTIL REACHING 50,000 VOLTS. HOLD AT 50,000 VOLTS FOR A PERIOD OF THREE MINUTES AND THEN REMOVE VOLTAGE.
3. MEASURE AND RECORD CURRENT LEAKAGE AT 10 KV, 20 KV, 30 KV, 40 KV, AND 50 KV AND AT 30 SECOND INTERVALS DURING THE THREE MINUTE PERIOD AT 50 KV.
4. ACCEPTANCE CRITERIA: CURRENT LEAKAGE AT 30 KV NOT TO EXCEED 5 MILLIAMPS AND NO DIELECTRIC PUNCTURE DURING THREE MINUTE DWELL TIME AT 50 KV.
5. CERTIFIED TEST REPORT REQUIRED INCLUDING REFERENCE TO SERIAL NUMBER OF LINK.

MILLER LIFTING PRODUCTS PROVIDES TESTING AND RECERTIFICATION SERVICES. FOR TESTING AND RECERTIFICATION SERVICES, OR FOR TECHNICAL INQUIRES REGARDING APPLICATION, USAGE OR MAINTENANCE PLEASE CONTACT MILLER

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 THE ABSENCE OF OTHER REQUIRED MEASURES IS NOT ACCEPTABLE. OSHA POWER LINE SAFETY REQUIREMENTS INVOLVING THE USE OF CRANES CAN BE FOUND IN FEDERAL REGULATION 29 CFR PART 1926, LATEST EDITION.

(09/10)