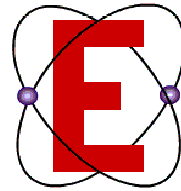


# Bayonet Expulsion Fuse Link

The ECI Bayonet Fuse is available in Fault Sensing (catalog numbers 9F54MFC\_\_\_), Dual Sensing fuse (9F54LFC\_\_\_), and Dual Element (9F54DFC\_\_\_). The Fault Sensing fuse is sensitive to current only and offers protection to the primary circuit from transformer faults. The Dual Sensing fuse is sensitive to both current and oil temperature, thus providing both overload and primary circuit protection. Dual Element combines the two. To avoid closing on a fault an Isolation Link or a current limiting fuse must be used in series with the Bayonet Fuse. The current limiting fuse is required when the available fault current exceeds the interrupting rating of the Bayonet Fuse.



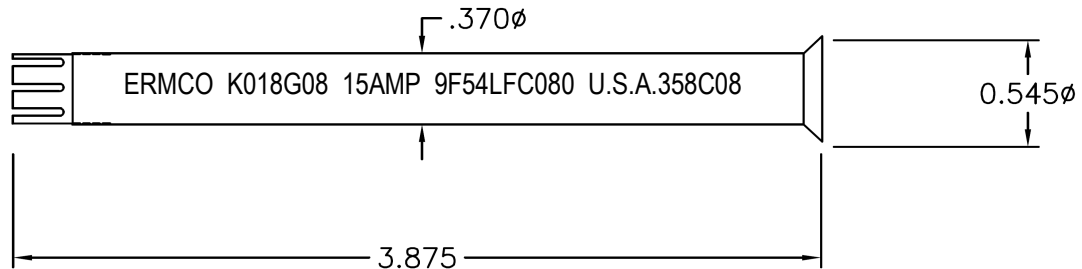
## ECI, ERMCO Components Inc.

1607 Industrial Road  
Greeneville, TN 37745

Phone: 423-638-2302 Toll Free: 877-267-1855  
Fax: 423-638-9380 [www.ermco-eci.com](http://www.ermco-eci.com)

	Fuse Curve	Ampere Rating	Max Interrupting amps sym.			Min Melt TCC	Max Clear TCC
			8.3 kV	15.5 kV	23 kV		
<b>Fault Sensing Fuse Links</b>							
9F54MFC040	C04	6	3500	2500	1000	GES-8224	GES-8225
9F54MFC060	C06	10	3500	2500	1000	GES-8224	GES-8225
9F54MFC080	C08	15	3500	2500	1000	GES-8224	GES-8225
9F54MFC100	C10	25	3500	2500	1000	GES-8224	GES-8225
9F54MFC120	C12	40	3500	2500	1000	GES-8224	GES-8225
9F54MFC140	C14	65	3500	2500	1000	GES-8224	GES-8225
9F54MFC160	C16	100	3500	2500	1000	GES-8224	GES-8225
9F54MFC170	C17	140	3500	2500	1000	GES-8224	GES-8225
<b>Dual Sensing Fuse Links</b>							
9F54LFC030	C03	3	3500	2500	1000	GES-8226	GES-8227
9F54LFC050	C05	8	3500	2500	1000	GES-8226	GES-8227
9F54LFC080	C08	15	3500	2500	1000	GES-8226	GES-8227
9F54LFC100	C10	25	3500	2500	600	GES-8226	GES-8227
9F54LFC120	C12	50	3500	2500	600	GES-8226	GES-8227
<b>Dual Element Fuse</b>							
9F54DFC030	C03	5	3500	2500	1000	GES-8228	GES-8229
9F54DFC040	C04	6	3500	2500	1000	GES-8228	GES-8229
9F54DFC050	C05	8	3500	2500	1000	GES-8228	GES-8229
9F54DFC060	C06	12	3500	2500	1000	GES-8228	GES-8229
9F54DFC070	C07	15	3500	2500	1000	GES-8228	GES-8229
9F54DFC090	C09	25	3500	2500	n/a	GES-8228	GES-8229
9F54DFC110	C11	40	3500	2500	n/a	GES-8228	GES-8229
9F54DFC120	C12	50	3500	2500	n/a	GES-8228	GES-8229
9F54DFC140	C14	65	3500	2500	n/a	GES-8228	GES-8229

**Table 1**  
Bayonet Fuse Link Catalog numbers and technical information



**Figure 1**  
Bayonet Fuse Link Outline Drawing (units in inches)

## ECI BAYONET FUSE LINK and ECI – COOPER FUSE LINK CROSS-REFERENCE and ISOLATION LINK CORRELATION

### **Bayonet Fuse Links:**

Three types of fuse elements are available; a Fault Sensing fuse (catalog numbers 9F54MFC---), Dual Sensing fuse (catalog numbers 9F54LFC---) and Dual Element (catalog numbers 9F54DFC---). The Fault Sensing fuse is sensitive to current only and offers protection to the primary circuit from transformer faults. The Dual Sensing fuse is sensitive to both current and oil temperature, thus providing both secondary protection and transformer protection. The Dual Element (9F54DFC---) combines the two.

ECI Fuse Link Catalog Number	ECI Isolation Link Catalog Number	Cooper Fuse Catalog Number (1)	Curve Number (2) for Bayonet Fuses	Ampere Rating for Bayonet Fuses
<b>Fault Sensing Fuse Links</b>				
9F54MFC040	7580ZB0299	353C04	C04	6
9F54MFC060	7580ZB0399	353C06	C06	10
9F54MFC080	7580ZB0399	353C08	C08	15
9F54MFC100	7580ZB0499	353C10	C10	25
9F54MFC120	7580ZB0499	353C12	C12	40
9F54MFC140	7580ZB0599	353C14	C14	65
9F54MFC160	7580ZB0599	353C16	C16	100
9F54MFC170	7580ZB0599	353C17	C17	140
<b>Dual Sensing Fuse Links</b>				
9F54LFC030	7580ZB0299	358C03	C03	3
9F54LFC050	7580ZB0399	358C05	C05	8
9F54LFC080	7580ZB0499	358C08	C08	15
9F54LFC100	7580ZB0599	358C10	C10	25
9F54LFC120	7580ZB0699	358C12	C12	50
<b>Dual Element Fuse Links</b>				
9F54DFC030	7580ZB0299	108C03	C03	5
9F54DFC040	7580ZB0299	108C04	C04	6
9F54DFC050	7580ZB0399	108C05	C05	8
9F54DFC060	7580ZB0399	108C06	C06	12
9F54DFC070	7580ZB0399	108C07	C07	15
9F54DFC090	7580ZB0499	108C09	C09	25
9F54DFC110	7580ZB0499	108C11	C11	40
9F54DFC120	7580ZB0499	108C12	C12	50
9F54DFC140	7580ZB0599	108C14	C14	65

### **Notes:**

1. ECI and Cooper bayonet fuse links are electrically and mechanically interchangeable.
2. ECI and Cooper bayonet fuse link time-current curves are essentially identical and have the same curve numbers.

### **Isolation Link**

All transformers equipped with a BAYONET fuse should also be equipped with an isolation link, as a safety feature. The isolation link is connected in series with the fuse and its purpose is to minimize the possibility of an operator closing in on a fault that is beyond the rated interrupting capability of the fuse element. Proper coordination between the isolation link and the fuse element is required.

Consult the Isolation link correlation chart above for the proper coordination between fuse element and isolation link.