



## Overview

### Description

Magnet wire wound on a molded 30% glass filled bobbin and encapsulated with 30% glass filled polyester resin and enclosed in a two-piece zinc-plated metal shell.

## Ratings

### Properties

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 - <b>Note:</b> DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 - <b>Note:</b> METRI-PACK 150-2M
Coil metal frame	Plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

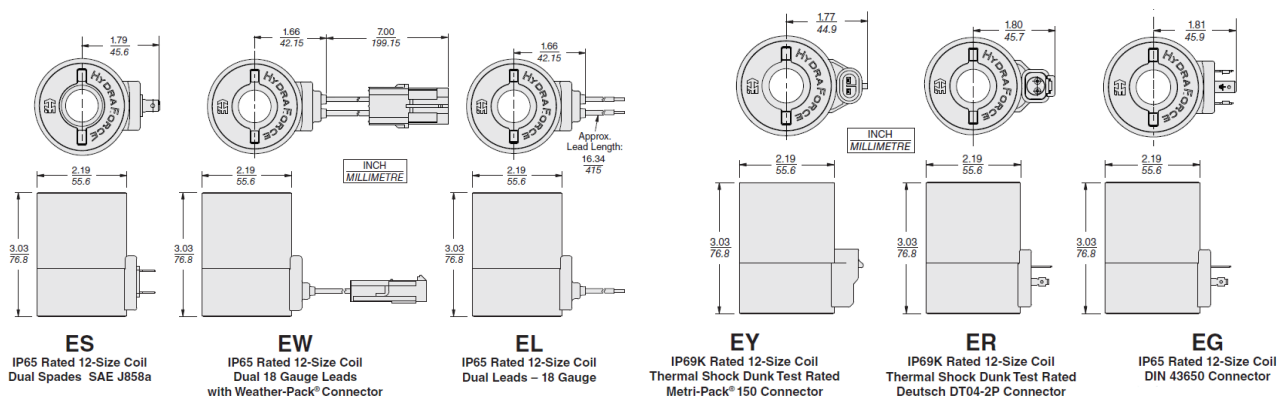
### Electrical Parameters

Coil resistance at 20 °C (68 °F)	5.4 ohm ±8% - <b>Note:</b> 12 V coil 21.7 ohm ±5% - <b>Note:</b> 24 V coil
Coil initial current draw	1.2 A - <b>Note:</b> 12 V coil 0.6 A - <b>Note:</b> 24 V coil
coil-initial-power-consumption	7.8 W

### Bidirectional Zener Diode Parameters

Maximum clamping voltage	45.7 V - <b>Note:</b> 12 Vdc coil 64.8 V - <b>Note:</b> 24 Vdc coil
Maximum peak pulse current	13.2 A - <b>Note:</b> 12 Vdc coil 9.3 A - <b>Note:</b> 24 Vdc coil
Reverse standoff voltage	28.2 V - <b>Note:</b> 12 Vdc coil 40.2 V - <b>Note:</b> 24 Vdc coil
Maximum reverse leakage	5.0 µA - <b>Note:</b> 12, 24 Vdc coil
Breakdown voltage	31.4 to 34.7 V - <b>Note:</b> 12 Vdc coil 44.7 to 49.4 V - <b>Note:</b> 24 Vdc coil
Diode part number	6110163 - <b>Note:</b> 12 Vdc coil (ref) 4000063 - <b>Note:</b> 24 Vdc coil (ref)

## Dimensions





## Coil Part Numbers

Model code	Part no.	Voltage	Connector	IP rating	Diode
12ES	6851012	12	Dual spade	IP65	
24ES	6851024	24	Dual spade	IP65	
12EL	6852012	12	Dual leads/no connector	IP69K	
12EL/W	6853012	12	Dual leads/no connector	IP69K	
12EG	6956012	12	DIN 43650	IP65	
24EG	6956024	24	DIN 43650	IP65	
12EY	6964012	12	Metri-Pack 150 2M	IP69K	
12ER	4301212	12	Deutsch DT04-2P	IP69K	
24ER	4301224	24	Deutsch DT04-2P	IP69K	
12ER/Z	4305512	12	Deutsch DT04-2P	IP69K	Bidirectional zener diode
24ER/Z	4305524	24	Deutsch DT04-2P	IP69K	Bidirectional zener diode