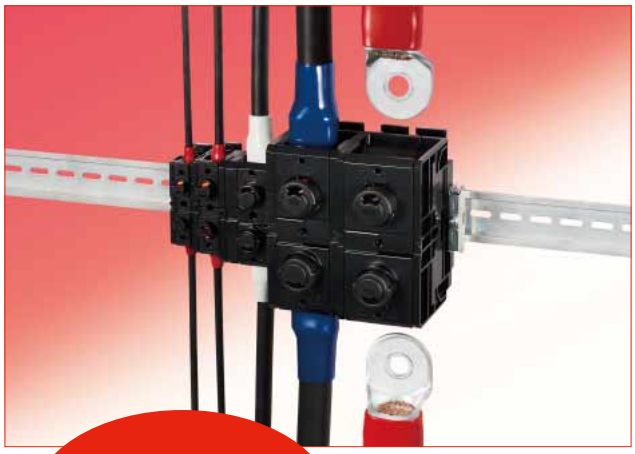
ZERO SCREW™

Up to 400A ZERO SCREW™ Terminal Block

EF2 Series



To the tightened world without screws!

■Features

1. Quick and secure single action positive lock structure
2. Easy operation simplifies maintenance especially in narrow and dimly lit places
3. Easy connection with standard ring terminals
4. Highly reliable connection with unique contact spring structure
5. Wide variety of cable sizes and currents supported
   Applicable : 1.25mm² to 200mm²
   Rated current : 16A to 400A
6. Easy crimping termination with commercially available JIS crimp tools
7. UL and TÜV certification pending

JIS C8201-7-1

■Product Specifications

	Product	D30	D60	D150	D250	D400
Ratings	Rated current	1.25mm²=16A 2mm²=21A 3.5mm²=30A 5.5mm²=40A	5.5mm²=40A 8mm²=50A 14mm²=70A	22mm²=94A 38mm²=132A 60mm²=175A	150mm²=310A	200mm²=400A
	Rated voltage	AC / DC 600V			AC 1000V, DC 1500V	
	Operating temperature range	−25℃ to +105℃ (Includes temperature rise due to current flow)				
	Storage temperature range	−10℃ to +60℃				

Item	Specifications	Conditions	
1. Contact resistance	D30, D60 : 1mΩ or less (DC 1A) D150, D250, D400 : 0.1mΩ or less (DC 1A)	Measured at DC 1A	
2. Insulation resistance	1000MΩ or more	Measured at DC 500V	
3. Withstanding voltage	No flashover or breakdown	D30, D60, D150	Apply AC 2500V for 1 minute.
		D250, D400	Apply AC 5000V for 1 minute.
4. Vibration resistance	No electrical discontinuity of 10μs or more	10 to 500Hz/cycle, half amplitude 0.75mm 3 hours in 3 axial directions	
5. Shock resistance	No electrical discontinuity of 10μs or more	Acceleration : 500m/s², duration : 11ms, 6 directions, 5 cycles for each	
6. Humidity resistance	Insulation resistance : Minimum of 20MΩ	Left at a temperature of −40±2℃ and in humidity of 90 to 95% for 96 hours.	
7. Heat and Cold resistance	Insulation resistance : Minimum of 20MΩ	Subjected to −25±3℃ for 2 hours. Returned to room temperature for 1 hour. Subjected to 70±3℃ for 2hours.	
8. Durability	D30, D60 : 1.5mΩ or less D150, D250, D400 : 0.15mΩ or less	50 mating cycles	

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■Materials / Finish

Component	Materials	Color/Finish	Remarks
Housing	m-PPE	Black	UL94V-0
Lock	PBT	Black/Red/Orange	UL94V-0
Bus bar	Copper	Tin plated	————
Spring	SUS	————	————

■Product Number Structure

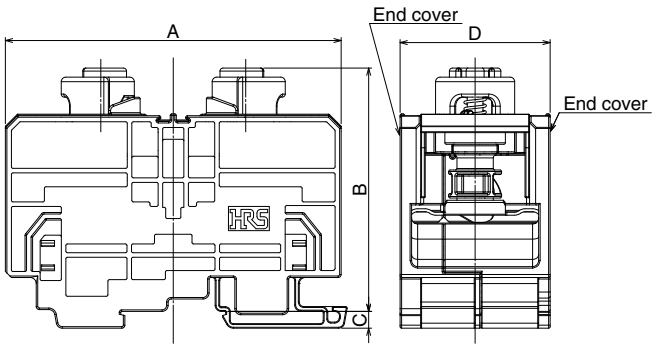
Refer to the chart below when determining the product specifications from the product number.
Please select from the product numbers listed in this catalog when placing orders.

EF2 - D 150 - 1 (**)
❶ ❷ ❸ ❹ ❺

❶ Series name : EF2
❷ Mount type : D = DIN rail mount
❸ Current capacity sign : 30, 60, 150, 250, 400
❹ Linked quantity (D150 type only)
❺ Additional product specifications will be identified by the addition of (01), (02)...etc. as needed.

■DIN rail mount type





Unit : mm

Part No.	HRS No.	A	B	C	D	Wire conductor size	Applicable crimp contact	Remarks
EF2-D30-1	142-0103-0	57.6	41.7	5.5	17.5	1.25mm² 2mm² 3.5mm² 5.5mm²	R1.25-5 R2-5 R3.5-4 R5.5-4	
EF2-D30-1 (01)	142-0103-0 01				12.05			☆
EF2-D60-1	142-0104-0	63.6	46.35	5.5	21	5.5mm² 8mm² 14mm²	R5.5-5 R8-5 R14-5	
EF2-D60-1 (01)	142-0104-0 01				15.55			☆
EF2-D150-1	142-0100-0	71	53.45	5.5	40.5	22mm² 38mm² 60mm²	R22-8、10 R38-8、10 R60-8、10	
EF2-D250-1	142-0101-0	111	80.45	5.55	49.6	150mm²	R150-12、14	
EF2-D400-1	142-0102-0	111	87.5	5.55	55	200mm²	R200-12、14	

Note 1 : ☆ : End cover unattached version.

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◆Applicable tools

Items	Part No.	HRS No.	Remarks
Manual hydraulic type crimp tool	HT111-9H-60	902-1515-2	JIS C 9711 (JIS standard general purpose tool) Recommendation : 9H-60 made by IZUMI Product Company
Manual hydraulic type crimp tool	————	————	JIS C 9711 (JIS standard general purpose tool) Recommendation : 5N18 made by IZUMI Product Company
Electric hydraulic type crimp tool	————	————	JIS C 9711 (JIS standard general purpose tool) Recommendation : REC-Li14S made by IZUMI Product Company
Electric hydraulic type crimp tool	————	————	JIS C 9711 (JIS standard general purpose tool) Recommendation : REC-Li60S made by IZUMI Product Company
Electric hydraulic type crimp tool	————	————	JIS C 9711 (JIS standard general purpose tool) Recommendation : REC-Li150 made by IZUMI Product Company
Electric hydraulic type crimp tool	————	————	JIS C 9711 (JIS standard general purpose tool) Recommendation : REC-Li325 made by IZUMI Product Company

◆Manual hydraulic type crimp tool



HT111/9H-60

◆Electric hydraulic type crimp tool



REC-Li14S



REC-Li60S



REC-Li150

Note : Please perform regular maintenance on your crimp tool according to its instruction manual.

◆Safety Precautions

⚠ Warning

- **Do not touch the exposed conductor while it is energized. Failure to follow this warning could result an electric shock and injury. ⚠**
- **The power to be turned off when inserting or extracting the crimp terminal.**
- **After mating the crimp terminal, pull the cable gently to confirm that it will not be disconuected. If it is not mated correctly, the cable will be removed. An incomplete mating will cause disconnection or contact failure which lead significant danger.**

⚠ Caution

- **Unappropriate crimp terminal may cause degradation of performance and serious accident. Please contact Hirose representative if you have any questions or concerns.**

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USA:
HIROSE ELECTRIC (U.S.A.), INC. HEADQUARTERS CHICAGO OFFICE
2300 Warrenville Road, Suite 150,
Downers Grove, IL 60515
Phone : +1-630-282-6700
http://www.hirose.com/us/

USA:
HIROSE ELECTRIC (U.S.A.), INC. SAN JOSE OFFICE
2841 Junction Ave, Suite 200
San Jose, CA. 95134
Phone : +1-408-253-9640
Fax : +1-408-253-9641
http://www.hirose.com/us/

USA:
HIROSE ELECTRIC (U.S.A.), INC. DETROIT OFFICE (AUTOMOTIVE)
17197 N. Laurel Park Drive, Suite 253,
Livonia, MI 48152
Phone : +1-734-542-9963
Fax : +1-734-542-9964
http://www.hirose.com/us/

USA:
HIROSE ELECTRIC (U.S.A.), INC. BOSTON OFFICE
300 Brickstone Square Suite 201,
Andover, MA 01810
Phone : +1-978-662-5255

THE NETHERLANDS:
HIROSE ELECTRIC EUROPE B.V.
Hogehillweg #8 1101 CC Amsterdam Z-O
Phone : +31-20-6557460
Fax : +31-20-6557469
http://www.hirose.com/eu/

GERMANY:
HIROSE ELECTRIC EUROPE B.V. GERMAN BRANCH
Schoenbergstr. 20, 73760 ostfildern
Phone : +49-711-456002-1
Fax : +49-711-456002-299
http://www.hirose.com/eu/

GERMANY:
HIROSE ELECTRIC EUROPE B.V. NUREMBERG OFFICE
Neumeyerstrasse 22-26, 90411 Nurnberg
Phone : +49-911 32 68 89 63
Fax : +49-911 32 68 89 69
http://www.hirose.com/eu/

GERMANY:
HIROSE ELECTRIC EUROPE B.V. HANOVER OFFICE
Bayernstr. 3, Haus C 30855 Langenhagen, Germany
Phone : +49-511 97 82 61 30
Fax : +49-511 97 82 61 35
http://www.hirose.com/eu/

FRANCE:
HIROSE ELECTRIC EUROPE B.V. PARIS OFFICE
130 Avenue Joseph Kessel, Bat E, 78960
Voisins le Bretonneux, France
Phone : +33-1-85764886
Fax : +33-1-85764823
http://www.hirose.com/eu/

UNITED KINGDOM:
HIROSE ELECTRIC EUROPE BV (UK BRANCH)
4 Newton Court, Kelvin Drive, Knowlhill,
Milton Keynes, MK5 8NH
Phone : +44-1908 202050
Fax : +44-1908 202058
http://www.hirose.com/eu/

CHINA:
HIROSE ELECTRIC (CHINA) CO., LTD. (SHANGHAI, HEADQUARTERS)
18, Enterprise Center Tower 2, 209# Gong He Road, Jing'an District, Shanghai, CHINA 200070
Phone : +86-21-6391-3355
Fax : +86-21-6391-3335
http://www.hirose.com/cn/

CHINA:
HIROSE ELECTRIC (CHINA) CO.,LTD. BEIJING BRANCH
A1001, Ocean International Center, Building 56# East 4th Ring Middle Road, ChaoYang District, Beijing, 100025
Phone : +86-10-5165-9332
Fax : +86-10-5908-1381
http://www.hirose.com/cn/

CHINA:
HIROSE ELECTRIC (CHINA) CO., LTD. SHENZHEN BRANCH
Room 09-13, 19/F, Office Tower Shun Hing Square, Di Wang Commercial Centre, 5002 Shen Nan Dong Road, Shenzhen City, Guangdong Province, 518008
Phone : +86-755-8207-0851
Fax : +86-755-8207-0873
http://www.hirose.com/cn/

HONG KONG:
HIROSE ELECTRIC HONGKONG TRADING CO., LTD.
Room 1001, West Wing, Tsim Sha Tsui Centre, 66 Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong
Phone : +852-2803-5338
Fax : +852-2591-6560
http://www.hirose.com/hk/

TAIWAN:
HIROSE ELECTRIC TAIWAN CO., LTD.
103 8F, No.87, Zhengzhou Rd., Taipei
Phone : +886-2-2555-7377
Fax : +886-2-2555-7355
http://www.hirose.com/tw/

KOREA:
HIROSE KOREA CO.,LTD.
143, Gongdan 1-daero, Siheung-si,
Gyeonggi-do, 15084, Korea
Phone : +82-31-496-7000
Fax : +82-31-496-7100
http://www.hirose.co.kr/

SINGAPORE:
HIROSE ELECTRIC SINGAPORE PTE. LTD.
03, Anson Road, #20-01, Springleaf Tower, Singapore 079909
Phone : +65-6324-6113
Fax : +65-6324-6123
http://www.hirose.com/sg/

INDIA:
HIROSE ELECTRIC SINGAPORE PTE. LTD. DELHI LIAISON OFFICE
Office NO.552, Regus-Green Boulevard, Level5, Tower C, Sec62, Plot B-9A, Block B, Noida, 201301, Uttar Pradesh, India
Phone : +91-12-660-8018
Fax : +91-120-4804949
http://www.hirose.com/sg/

INDIA:
HIROSE ELECTRIC SINGAPORE PTE. LTD. BANGALORE LIAISON OFFICE
Unit No-403, 4th Floor, No-84, Barton Centre, Mahatma Gandhi (MG) Road, Bangalore 560 001, Karnataka, India
Phone : +91-80-4120 1907
Fax : +91-80-4120 9908
http://www.hirose.com/sg/

MALAYSIA:
PENANG REPRESENTATIVE OFFICE
73-3-1, Ideal@The One, Jalan Mahsuri, Bayan Lepas Penang, 11950, Malaysia
Phone : +604-648-5536
http://www.hirose.com/sg/

THAILAND:
BANGKOK OFFICE (REPRESENTATIVE OFFICE)
Unit 4703, 47th FL., 1 Empire Tower, South Sathorn Road, Yannawa, Sathorn, Bangkok 10120 Thailand
Phone : +66-2-686-1255
Fax : +66-2-686-3433
http://www.hirose.com/sg/

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HRS

HIROSE ELECTRIC CO.,LTD.
2-6-3,Nakagawa Chuoh,Tsuzuki-Ku,Yokohama-Shi 224-8540,JAPAN
TEL: +81-45-620-3526 Fax: +81-45-591-3726
http://www.hirose.com
http://www.hirose-connectors.com

The characteristics and the specifications contained herein are for reference purpose. Please refer to the latest customer drawings prior to use.
The contents of this catalog are current as of date of 05/2018. Contents are subject to change without notice for the purpose of improvements.