

# FHLR91XC13X and FHLR4GC13X Battery Cable



Eland Product Group: B5F

#### **APPLICATION**

Battery cable for use in road vehicle applications. including e-Mobility applications. Offers excellent resistance to high and low temperature, ozone, UV and weathering resistance. It is resistant to pressure at high temperatures, motor oil, fuels and hydrolysis, flame retardant, has a high abrasion resistance, and is easy to strip and process.

#### **CHARACTERISTICS**

## **Voltage Rating**

U<sub>0</sub>: 1000V AC V<sub>0</sub>: 1500V DC

Test Voltage 50 Hz, 5 min 10kV AC

### **Temperature Range**

(3000h): -40°C to + 150°C

# Minimum Bending Radius

Fixed: 4x Overall diameter Flexing: 6x Overall diameter

## CONSTRUCTION

#### Conductor

Bare Copper

# Insulation

91X: XLPO (Cross-linked irradiation Polyolefin) for cables <6 mm<sup>2</sup> 4G: EVA (Ethylene Vinyl Acetate) for cables >6 mm<sup>2</sup>

#### Screen

TCWB (Tinned copper wire braid)

#### Wrapping

Tape

#### Sheath

TPE-E (Vulcanised Thermoplastic Elastomer 13X)

#### **Sheath Colour**

Orange

## **STANDARDS**

ISO 6722-1 class D, ISO 19642-9 class D, EU-directive 2000/53/FG

# THE CABLE LAB®

#### AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



#### SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability





BUSINESS 1.5°C







# REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.











# **DIMENSIONS FHLR91XC13X**

ELAND PART NO.	NOMINAL CROSS SECTIONAL AREA	CONDUCTOR						
		NUMBER OF INDIVIDUAL WIRES	NOMINAL DIAMETER OF INDIVIDUAL WIRES	NOMINAL DIAMETER mm	NOMINAL DIAMETER OF INSULATION mm	NOMINAL DIAMETER OF SCREEN mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/100m
B5F0100250R	2.5	50	0.26	2.0	2.85	3.3	5.0	4.9
B5F0100400R	4	56	0.31	2.5	3.55	4.0	5.8	7.0
B5F0100600R	6	84	0.31	3.0	4.15	4.7	6.6	9.8

# **DIMENSIONS FHLR4GC13X**

ELAND PART NO.	NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR			CABLE			
		NUMBER OF INDIVIDUAL WIRES	NOMINAL DIAMETER OF INDIVIDUAL WIRES mm	NOMINAL DIAMETER mm	NOMINAL DIAMETER OF INSULATION mml	NOMINAL DIAMETER OF SCREEN mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/100m
B5F010080R	8	60	0.41	3.8	5.05	5.6	7.6	12.5
B5F010100R	10	78	0.41	4.3	5.75	6.3	8.4	15.8
B5F010120R	12	92	0.41	4.7	6.10	6.7	8.9	17.9
B5F010160R	16	126	0.41	5.4	6.90	7.5	9.7	23.0
B5F010200R	20	154	0.41	6.2	7.60	8.3	10.6	28.2
B5F010250R	25	189	0.41	6.7	8.20	8.9	11.2	32.8
B5F010300R	30	224	0.41	7.4	9.10	9.8	12.1	38.5
B5F010350R	35	273	0.41	7.9	9.70	10.4	12.7	44.7
B5F010400R	40	301	0.41	8.5	10.40	11.3	13.6	51.3
B5F010500R	50	385	0.41	9.4	11.50	12.6	14.9	64.2
B5F010600R	60	294	0.51	10.6	12.60	13.5	15.9	73.1
B5F010700R	70	360	0.51	11.6	13.70	14.6	17.0	85.8
B5F010950R	95	480	0.51	13.5	16.20	17.3	19.9	115.3
B5F011200R	120	589	0.51	15.1	18.00	19.1	22.6	145.5
B5F011500R	150	741	0.51	17.0	20.00	21.3	24.9	177.4

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.



# **ELECTRICAL CHARACTERISTICS**

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM RESISTANCE AT 20 °C Ω/km	NOMINAL TRANSFER IMPEDANCE OF SCREEN AT 30oC MHZ m $\Omega/m$
2.5	7.60	100
4	4.71	110
6	3.14	70
8	2.38	40
10	1.82	30
12	1.52	30
16	1.16	40
20	0.955	30
25	0.743	40
30	0.647	30
35	0.527	60
40	0.473	20
50	0.368	30
60	0.315	30
70	0.259	30
95	0.196	20
120	0.153	20
150	0.122	30