



# (H)07RC4N8-F Cable



Eland Product Group: B3J

#### **APPLICATION**

Power distribution cable for fixed or flexible wiring in industrial equipment including motors and cranes in open, closed, dry or humid areas and under stress of high mechanical-chemical effects. Provides good resistance to oils, acids, chemical agents, ozone and flame. Copper braid for electromagnetic screening.

### **CHARACTERISTICS**

Voltage Rating Uo/U 450/750V

**Test Voltage - AC** 2.5kV

### **Temperature Rating**

-35°C to +80°C

### **Minimum Bending Radius**

Fixed: 7.5 x overall diameter Flexed: 15 x overall diameter

### **CONSTRUCTION**

### Conductor

Class 5 Fine Stranded Annealed Flexible Copper

#### Insulation

Rubber Compound

#### **Inner Sheath**

Rubber Compound

#### Screen

Tinned Copper Bradi - 70% coverage

### Sheath

Rubber Compound

### **Core Identification**

2 cores: 
Blue 
Brown

6 cores and above: 

Black with numbers

### **Sheath Colour**

Black

#### **STANDARDS**

EN 50363-1, EN 50363-2-1, EN 60228

Flame Retardant according to IEC/EN 60332-1-2

### ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



### REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.









### **DIMENSIONS**

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B3J020015BK	2	1.5	10.9	180
B3J020025BK	2	2.5	12.8	260
B3J020040BK	2	4	14.5	350
B3J020060BK	2	6	16.0	420
B3J02010BK	2	10	19.6	640
B3J02016BK	2	16	22.9	910
B3J030015BK	3	1.5	11.8	220
B3J030025BK	3	2.5	13.8	300
B3J030040BK	3	4	15.6	410
B3J030060BK	3	6	17.8	530
B3J03010BK	3	10	21.6	810
B3J03016BK	3	16	24.7	1100
B3J040015BK	4	1.5	13.2	270
B3J040025BK	4	2.5	14.8	350
B3J040040BK	4	4	17.1	480
B3J040060BK	4	6	19.3	630
B3J04010BK	4	10	23.4	980
B3J04016BK	4	16	26.7	1320
B3J050015BK	5	1.5	14.6	330
B3J050025BK	5	2.5	16.0	420
B3J070015BK	7	1.5	18.2	520
B3J070025BK	7	2.5	18.6	600
B3J120015BK	12	1.5	19.3	570
B3J120025BK	12	2.5	22.3	820

# **CONDUCTORS**

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

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NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C Ohms/km Plain Wires	
THIN!	mm		
0.5	0.21	39	
0.75	0.21	26	
1	0.21	19.5	
1.5	0.26	13.3	
2.5	0.26	7.98	
4	0.31	4.95	
6	0.31	3.3	
10	0.41	1.91	
16	0.41	1.21	



## **CURRENT CARRYING CAPACITY AT 30°C**

### Ambient Temperature

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	1 CORE	2 CORE	3 CORE	4 CORE	5 CORE
1.5	19	19	15.5	16	16
2.5	26	26	21	22	22
4	34	34	29	30	30
6	43	43	36	37	37
10	60	60	51	52	54
16	79	79	67	69	71

