



# ROZ1-K (EMC) Servo Cable



Eland Product Group: B9R

## APPLICATION

Low Voltage EMC screened Servo cable with Low Smoke Zero Halogen sheathing, suitable for use in fixed installations and in Variable Frequency Drives.

## CHARACTERISTICS

### Voltage Rating

0.6/1kV

### Test Voltage

3.5kV

### Temperature Rating

Operating temperature (fixed): -40°C to +90°C  
Operating temperature (flexible): -5°C to +90°C  
Maximum continuous operating temperature of conductor: 90°C  
Maximum conductor temperature during short circuit: 250°C

### Minimum Bending Radius

10 x overall diameter

## CONSTRUCTION

### Conductor

Class 5 Flexible Fine-Stranded Copper

### Insulation

XLPE (Cross-Linked Polyethylene)

### Overall Screen

PES and AL/PES (Aluminium/Polyester) Tape

### Braid

TCWB (Tinned Copper Wire Braid)

### Sheath

LSZH (Low Smoke Zero Halogen) Compound ST8

### Sheath Colour

● Black

## STANDARDS

IEC 60288, IEC 60502-1

Flame Retardant to IEC 60332-1, IEC 60332-3-24  
Low Smoke Halogen Free to IEC/EN 60754-1/2, IEC/EN 61034-1/-2, VDE 0482 P267-2-1/2, DIN EN 50267-2-1/2  
VDE 0482 P268-1/-2, DIN EN 50268-1/-2  
UV Resistance ISO 4892-2 / ISO 4892-3  
Oil Resistance ASTM NO: 2 (4 hours 70°C)  
Hydrocarbon Resistance NF-M87-202

## THE CABLE LAB<sup>®</sup>

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](http://www.elandcables.com/company/about-us/esg-sustainability)



SCIENCE  
BASED  
TARGETS

**BUSINESS  
AMBITION FOR 1.5°C**



## REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS &amp; ELECTRICAL CHARACTERISTICS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MAXIMUM CONDUCTOR RESISTANCE DC AT 20°C Ohm/km
B9R040015	4	1.5	11.40	183	13.3
B9R040025	4	2.5	12.40	233	7.98
B9R040040	4	4	13.70	303	4.95
B9R040060	4	6	15.20	397	3.3
B9R04010	4	10	17.70	593	1.91
B9R04016	4	16	20.40	840	1.21
B9R04025	4	25	24.60	1260	0.78
B9R04035	4	35	29.60	1708	0.554
B9R04050	4	50	33.70	2344	0.386
B9R04070	4	70	39.90	3265	0.272
B9R04095	4	95	45.40	4205	0.206
B9R04120	4	120	49.00	5237	0.161
B9R04150	4	150	55.00	6482	0.129
B9R04185	4	185	62.50	7936	0.106
B9R04240	4	240	69.30	10265	0.0801
B9R3+30015/0.25	3 + 3	1.5 + 0.25	12.30	194	13.3 / 76
B9R3+30025/0.5	3 + 3	2.5 + 0.5	13.40	242	7.98 / 39
B9R3+30040/0.75	3 + 3	4 + 0.75	14.50	309	4.95 / 26
B9R3+30060/1	3 + 3	6 + 1	15.40	381	3.3 / 19.5
B9R3+3010/1.5	3 + 3	10 + 1.5	17.20	542	1.91 / 13.3
B9R3+3016/2.5	3 + 3	16 + 2.5	19.50	760	1.21 / 7.98
B9R3+3025/4	3 + 3	25 + 4	22.70	1107	0.78 / 4.95
B9R3+3035/6	3 + 3	35 + 6	27.80	1522	0.554 / 3.3
B9R3+3050/10	3 + 3	50 + 10	30.50	2097	0.386 / 1.91
B9R3+3070/10	3 + 3	70 + 10	37.00	2816	0.272 / 1.91
B9R3+3095/16	3 + 3	95 + 16	41.50	3715	0.206 / 1.21
B9R3+3120/16	3 + 3	120 + 16	45.20	4512	0.161 / 1.21
B9R3+3150/25	3 + 3	150 + 25	50.60	5721	0.129 / 0.78
B9R3+3185/35	3 + 3	185 + 35	57.00	7085	0.106 / 0.554
B9R3+3240/50	3 + 3	240 + 50	63.40	9273	0.0801 / 0.386