

Curly Flex TPR Cable



Eland Product Group: **A2C**

APPLICATION

Intended for use in machinery, lifting platforms, conveyor and transport belts, agricultural equipment, construction machinery or trucks with high chemical, thermal or mechanical stress.

CONSTRUCTION

Conductor

Class 5 flexible tinned copper conductor according to BS EN 60228 (previously BS 6360)

Insulation

PVC (Polyvinyl Chloride)

Sheath

TPR (Thermo Plastic Rubber)

CABLE STANDARDS



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (Uo/U)

300/500V

Temperature Rating

0°C to +70°C

Core Identification

3 core: ● Green/Yellow ● Blue ● Brown

4 core: ● Green/Yellow ● Brown ● Black ● Grey

5 core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

6 core: ● Green/Yellow ● Blue ● White ● Brown ● Black

● Grey

7 core: ● Green/Yellow ● Blue ● White ● Green ● Brown

● Black ● Grey

Sheath Colour

● Black

DIMENSIONS

ELAND PART NO.	NO OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	UNEXTENDED LENGTH mm	EXTENDED LENGTH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL SPIRAL OVERALL DIAMETER mm
A2C3075TPR1-5	3	0.75	1000	5000	9.5	35
A2C3010TPR1-5	3	1	1000	5000	9.5	35
A2C3015TPR1-5	3	1.5	1000	5000	10	36
A2C3025TPR1-5	3	2.5	1000	5000	11.5	42
A2C4075TPR1-5	4	0.75	1000	5000	9.5	35
A2C4010TPR1-5	4	1	1000	5000	9.5	35
A2C4015TPR1-5	4	1.5	1000	5000	11.5	42
A2C4025TPR1-5	4	2.5	1000	5000	12.5	47
A2C5075TPR1-5	5	0.75	1000	5000	10.5	37
A2C5015TPR1-5	5	1.5	1000	5000	13	51
A2C5025TPR1-5	5	2.5	1000	5000	14	53

CONDUCTORS

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

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
		Plain Wires ohms/km
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98

The above table is in accordance with BS EN 60228 (previously BS 6360)

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING Amps	NOMINAL VOLTAGE DROP SINGLE-PHASE mV/A/m
0.75	6	62
1	10	46
1.5	16	32
2.5	25	19

The above calculations are based on retracted 1500mm cables of up to five conductors installed at an ambient temperature of 30°C