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ELAND® CABLES

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.

CHARACTERISTICS

Voltage Rating Uo/U
300/500V

Temperature Rating
0°C to +70°C

CONSTRUCTION

Conductor
Class 5 flexible tinned copper conductor

Insulation
PVC (Polyvinyl Chloride)

Sheath
Rubber

Core Identification
3 core: ● Green/Yellow ● Blue ● Brown
4 core: ● Green/Yellow ● Brown ● Black ● Grey
5 core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Sheath Colour
● Black

STANDARDS

EN 60228

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

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.

ISO/IEC 17025 Accredited Testing Laboratory | IECEE CBTL Accredited Testing Laboratory

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

SCIENCE BASED TARGETS | BUSINESS AMBITION FOR 1.5°C

REGULATORY COMPLIANCE

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

CPR COMPLIANT EN 50575

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®.

RoHS | REACH | CE

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	UNEXTENDED LENGTH mm	EXTENDED LENGTH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL SPIRAL OVERALL DIAMETER mm
A2C30075TPR1-5	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
A2C40075TPR1-5	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
A2C50075TPR1-5	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 mm²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Plain Wires
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 EN 60228

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm²	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

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