

318-TRS / H05RR-F BS EN 50525-2-21 Cable



Eland Product Group: **A5H**

APPLICATION

Ordinary duty flexible rubber cords suitable for use in domestic premises, such as kitchens and offices.

CONSTRUCTION

Conductor

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

Insulation

Rubber compound type E14 according to BS EN 50363

Sheath

Rubber compound type EM3 according to BS EN 50363

CABLE STANDARDS

BS EN 50525-2-21, VDE0282 (BS 6500)



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 (U_o/U)
300/500V

Temperature Rating
Flexed: -25°C to +60°C

Minimum Bending Radius
Flexed: 4 x overall diameter
Fixed: 3 x overall diameter

Core Identification

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

Sheath Colour
● Black ○ White

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5H020075**	2	0.75	0.6	6.1	53
A5H02010**	2	1	0.6	6.6	64
A5H02015**	2	1.5	0.8	7.8	95
A5H02025**	2	2.5	0.9	9.2	140
A5H02040**	2	4	1	10.8	180
A5H030075**	3	0.75	0.6	6.6	65
A5H03010**	3	1	0.6	7	77
A5H03015**	3	1.5	0.8	8.4	115
A5H03025**	3	2.5	0.9	9.9	170
A5H03040**	3	4	1	11.7	240
A5H03060**	3	6	1	13.3	320
A5H040075**	4	0.75	0.6	7.3	80
A5H04010**	4	1	0.6	7.6	95
A5H04015**	4	1.5	0.8	9.4	145
A5H04025**	4	2.5	0.9	11.1	210
A5H04040**	4	4	1	13.0	300
A5H04060**	4	6	1	14.5	405
A5H050075**	5	0.75	0.6	8.1	100
A5H05010**	5	1	0.6	8.4	115
A5H05015**	5	1.5	0.8	10.3	170
A5H05025**	5	2.5	0.9	12.4	255
A5H05040**	5	4	1	14.5	355

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. A5H020075WH = 0.75mm² White

Colour Codes

COLOUR	Black	White
CODE	BK	WH

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
4	0.31	4.95
6	0.31	3.3

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

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY Amps		MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD (See Regulations 522.7.2 and 559.6.1.5 from 17 TH Edition of Wiring Regulations) kg
	Single-Phase AC	Three-Phase AC	
0.75	6	6	3
1	10	10	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.

Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm ²	DC OR SINGLE-PHASE AC mV/A/m	THREE-PHASE AC mV/A/m
0.75	62	54
1	46	40
1.5	32	27
2.5	19	16
4	12	10

Conductor operating temperature: 60°C

The above table is in accordance with Table 4F3B of the 17th Edition of IEE Wiring Regulations.

DE-RATING FACTORS

De-Rating Factor for Ambient Temperature 60°C Thermoplastic or Thermosetting Insulated Cords

AIR TEMPERATURE	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	0.91	0.82	0.71	0.58	0.41

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.