

# 218-Y / H03VV-F EN50525-2-11 Flexible Cable



Eland Product Group: A3Y

## APPLICATION

Light duty cable for use in domestic premises, kitchens and offices. For use with light portable appliances such as radios, table lamps and office equipment.

## CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
300/300V

**Temperature Rating**  
Flexed: +5°C to +70°C

**Minimum Bending Radius**  
Flexed: 6 x overall diameter

## CONSTRUCTION

**Conductor**  
Class 5 flexible copper conductor

**Insulation**  
PVC (Polyvinyl Chloride)

**Sheath**  
PVC (Polyvinyl Chloride)

**Core Identification**  
2 core: ● Blue ● Brown  
3 core: ● Green/Yellow ● Blue ● Brown  
4 core: ● Green/Yellow ● Black ● Brown ● Blue

**Sheath Colour**  
○ White ● Black

## CABLE THIRD-PARTY ACCREDITATION

**We supply BASEC approved products**  
Cables are tested and certified by BASEC, The British Approvals Service for Cables

## STANDARDS

EN 50525-2-11, EN 60228

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

## 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)



## 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, 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

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A3Y020050*	2	0.5	0.5	0.6	5.0	37
A3Y020075*	2	0.75	0.5	0.6	5.5	46
A3Y030050*	3	0.5	0.5	0.6	5.3	44
A3Y030075*	3	0.75	0.5	0.6	5.8	55
A3Y040050*	4	0.5	0.5	0.6	5.8	54

\* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below. e.g. A3Y020050BK = 0.5mm<sup>2</sup> Black

## COLOUR CODES

COLOUR CODE	White WH	Black BK

## CONDUCTORS

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

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Plain Wires
0.5	0.21	39
0.75	0.21	26

The above table is in accordance with EN 60228

## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY Amps		MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD (See Regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulations) kg
	Single-Phase AC	Three-Phase AC	
0.5	3	3	2
0.75	6	6	3

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

## VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	DC OR SINGLE-PHASE AC mV/A/m	THREE-PHASE AC mV/A/m
0.5	93	80
0.75	62	54

Conductor operating temperature: 60°C

The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

## DE-RATING FACTORS

### 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 information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.