

Defence Standard 61-12 Part 5 Cable



Eland Product Group: A2D

APPLICATION

These Multi-Core flexible cables are designed for high density wiring between components and within instruments and electronic equipment. They are extensively used in aircraft, process control systems, computers, data processors, military vehicles and military equipment.

CHARACTERISTICS

Voltage Rating

440V r.m.s. at frequencies up to 1.6kHz

Maximum Resistance of Conductor at 20°C

16/0.2 : 40.1 ohms/km

Current Carrying Capacity

2.5 Amps

Temperature Rating

Fixed: -30°C to +70°C

Flexed: -15°C to +70°C

Minimum Bending Radius

Fixed: 7.5 x overall diameter

CONSTRUCTION

Conductor

Class 5 flexible tinned copper conductor

Insulation

PVC (Polyvinyl Chloride)

Screen

TCWB (Tinned Copper Wire Braid)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Black

STANDARDS

Defence Standard 61-12 Part 5

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.



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



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 2015/853/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

Circular Conductor, PVC Insulated, PVC Sheathed, Def Stan 61/12 Part 4

| ELAND PART NO. | CABLE IDENTIFICATION CODE | NO. OF CORES | NOMINAL THICKNESS OF SHEATH mm | NOMINAL OVERALL DIAMETER mm | NOMINAL WEIGHT kg/km |
|----------------|---------------------------|--------------|-----------------------------------|--------------------------------|-------------------------|
| A2D5BK02005A | 16-2-2A | 2 | 0.9 | 5.5 | 34 |
| A2D5BK03005A | 16-2-3A | 3 | 0.9 | 5.8 | 42 |
| A2D5BK04005A | 16-2-4A | 4 | 0.9 | 6.3 | 54 |
| A2D5BK06005A | 16-2-6A | 6 | 0.9 | 7.3 | 75 |
| A2D5BK08005A | 16-2-8A | 8 | 0.9 | 8.5 | 96 |
| A2D5BK12005A | 16-2-12A | 12 | 0.9 | 9.5 | 120 |
| A2D5BK18005A | 16-2-18A | 18 | 0.9 | 11 | 180 |
| A2D5BK25005A | 16-2-25A | 25 | 0.9 | 13.1 | 230 |

Circular Conductor, PVC Insulated, Collectively Screened Cores, PVC Sheathed, Def Stan 61/12 Part 5

| ELAND PART NO. | CABLE IDENTIFICATION CODE | NO. OF CORES | NOMINAL THICKNESS OF SHEATH mm | NOMINAL OVERALL DIAMETER mm | NOMINAL WEIGHT kg/km |
|----------------|---------------------------|--------------|-----------------------------------|--------------------------------|-------------------------|
| A2D5BK02005S | 16-2-2C | 2 | 0.9 | 6.5 | 69 |
| A2D5BK03005S | 16-2-3C | 3 | 0.9 | 6.8 | 79 |
| A2D5BK04005S | 16-2-4C | 4 | 0.9 | 7.3 | 92 |
| A2D5BK06005S | 16-2-6C | 6 | 0.9 | 8.3 | 120 |
| A2D5BK08005S | 16-2-8C | 8 | 0.9 | 8.9 | 140 |
| A2D5BK10005S | 16-2-10C | 10 | 0.9 | 9.3 | 165 |
| A2D5BK12005S | 16-2-12C | 12 | 0.9 | 10.6 | 190 |
| A2D5BK18005S | 16-2-18C | 18 | 0.9 | 12 | 250 |
| A2D5BK25005S | 16-2-25C | 25 | 0.9 | 14 | 320 |

Circular Conductor, PVC Insulated, Individually Screened Cores, PVC Sheathed, Def Stan 61/12 Part 5

| ELAND PART NO. | CABLE IDENTIFICATION CODE | NO. OF CORES | NOMINAL THICKNESS OF SHEATH mm | NOMINAL OVERALL DIAMETER mm | NOMINAL WEIGHT kg/km |
|----------------|---------------------------|--------------|-----------------------------------|--------------------------------|-------------------------|
| A2D5BK02005D | 16-2-2D | 2 | 0.9 | 6 | 47 |
| A2D5BK03005D | 16-2-3D | 3 | 0.9 | 6.8 | 60 |
| A2D5BK04005D | 16-2-4D | 4 | 0.9 | 7.4 | 75 |
| A2D5BK06005D | 16-2-6D | 6 | 0.9 | 8.7 | 110 |
| A2D5BK07005D | 16-2-7D | 7 | 0.9 | 8.7 | 120 |
| A2D5BK12005D | 16-2-12D | 12 | 0.9 | 11.3 | 190 |
| A2D5BK18005D | 16-2-18D | 18 | 0.9 | 13.3 | 270 |
| A2D5BK25005D | 16-2-25D | 25 | 0.9 | 15.9 | 360 |

CORE IDENTIFICATION

| NO. OF CORES | CORE IDENTIFICATION | NO. OF CORES | CORE IDENTIFICATION | NO. OF CORES | CORE IDENTIFICATION |
|--------------|---------------------|--------------|---------------------|--------------|---------------------|
| 1 | ● Red | 13 | ● Red/Blue | 25 | ● Yellow/Green |
| 2 | ● Blue | 14 | ● Green/Red | 26 | ● White/Green |
| 3 | ● Green | 15 | ● Yellow/Red | 27 | ● Green/Black |
| 4 | ● Yellow | 16 | ● White/Red | 28 | ● Orange/Green |
| 5 | ○ White | 17 | ● Red/Black | 29 | ● Grey/Green |
| 6 | ● Black | 18 | ● Red/Brown | 30 | ● Yellow/Brown |
| 7 | ● Brown | 19 | ● Yellow/Blue | 31 | ● White/Brown |
| 8 | ● Violet | 20 | ● White/Blue | 32 | ● Brown/Black |
| 9 | ● Orange | 21 | ● Blue/Black | 33 | ● Grey/Brown |
| 10 | ● Pink | 22 | ● Orange/Blue | 34 | ● Yellow/Violet |
| 11 | ● Turquoise | 23 | ● Green/Blue | 35 | ● Violet/Black |
| 12 | ● Grey | 24 | ● Grey/Blue | 36 | ● White/Violet |

Base colours are indicated by capital letters

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.