

Defence Standard 61-12 Part 4 Cable



Eland Product Group: A2D

APPLICATION

These Multi-Core flexible cables are designed for high density wiring between components 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

Cores with 7/0.1 mm conductors:
250V r.m.s. at frequencies up to 1.6 kHz
Cores with 7/0.2 mm conductors:
440V r.m.s. at frequencies up to 1.6 kHz

Maximum Resistance of Conductor at 20°C

7/0.1 mm: 384 ohms/km
7/0.2 mm: 92 ohms/km

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

Stranded tinned copper conductor; 0.055mm² (7/0.1mm);
0.22mm² (7/0.2mm)

Insulation

PVC (Polyvinyl Chloride)

Screen

TCWB (Tinned Copper Wire Braid)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Black

STANDARDS

Defence Standard 61-12 Part 4

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



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 and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





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
A2D4BK020022A	7-2-2A	2	0.45	3.35	13
A2D4BK030022A	7-2-3A	3	0.45	3.55	16
A2D4BK040022A	7-2-4A	4	0.45	3.85	20
A2D4BK060022A	7-2-6A	6	0.45	4.55	30
A2D4BK120022A	7-2-12A	12	0.55	6.1	53
A2D4BK180022A	7-2-18A	18	0.65	7.4	80
A2D4BK250022A	7-2-25A	25	0.65	8.7	100
A2D4BK360022A	7-2-36A	36	0.65	9.8	140
A2D4BK500022A	7-2-50A	50	0.75	11.6	200

Circular Conductor, PVC Insulated, Collectively Screened Cores, 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
A2D4BK020022	7-2-2C	2	0.45	3.85	23
A2D4BK030022	7-2-3C	3	0.45	3.95	27
A2D4BK040022	7-2-4C	4	0.45	4.35	32
A2D4BK060022	7-2-6C	6	0.55	5.6	55
A2D4BK080022	7-2-8C	8	0.55	5.6	60
A2D4BK120022	7-2-12C	12	0.55	6.9	83
A2D4BK180022	7-2-18C	18	0.65	8.2	110
A2D4BK250022	7-2-25C	25	0.65	9.5	150
A2D4BK360022	7-2-36C	36	0.75	10.8	200
A2D4BK500022	7-2-50C	50	0.75	12.6	270

Circular Conductor, PVC Insulated, Individually Screened Cores, 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
A2D4BK020022D	7-2-2D	2	0.45	4.25	22
A2D4BK030022D	7-2-3D	3	0.45	4.55	29
A2D4BK040022D	7-2-4D	4	0.55	5.1	40
A2D4BK060022D	7-2-6D	6	0.55	6.1	58
A2D4BK120022D	7-2-12D	12	0.65	8.2	110
A2D4BK180022D	7-2-18D	18	0.65	9.6	150
A2D4BK250022D	7-2-25D	25	0.75	11.65	210
A2D4BK360022D	7-2-36D	36	0.75	13.1	290
A2D4BK500022D	7-2-50D	50	0.9	15.6	410



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.