

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.

CONSTRUCTION

Conductor

Class 5 flexible tinned copper conductor

Insulation

PVC (Polyvinyl Chloride)

Screen

TCWB (Tinned Copper Wire Braid)

Sheath

PVC (Polyvinyl Chloride)

CABLE STANDARDS

Generally to Def Stan 61-12 Part 5



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

440V Grade 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

Core Identification

See Core Identification on page 3 of data-sheet.

Sheath Colour

● Black

DIMENSIONS

Circular Conductor, PVC Insulated, 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
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	52
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
A2D5BK04005	16-2-4C	4	0.9	7.3	92
A2D5BK06005S	16-2-6C	6	0.9	8.3	120
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
A2D5BK08005S	16-2-8C	8	0.9	8.9	140

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