

7-1-xxA Series

Unscreened Multicore Cable

PRO-POWER
Quality Cables



Features:

These standard, miniature sub-miniature cables are manufactured to Ministry of Defence, Defence standard 61-12 part 4 (for miniature and sub-miniature sizes).

These multicore flexible cables are designed for high density wiring between components and within instruments and electronic equipment. They are extensively used in aircraft, avionic control systems, computers, data processors, process control systems, military vehicles and ancillary military equipment. Because of the mechanical design of these cables they should not be used for direct connection of equipment to mains power supplies.

7-1-9A and 7-1-15A are core number and sheath colours not specifically listed in Defence Standard 61-12 parts 4, but because of their suitability for applications in the electronics industry are manufactured with these configurations in conformance with specifications for similar cables included in the defence standard.

- Defence Standard 61-12 Part 4.
- Signal Security Cable.

Technical Specifications:

Voltage rating	: 250V (RMS).
Maximum current per core	: 0.25A.
Conductor area	: 0.055mm ² per core.
Maximum operating temperature	: 70°C.
Sheath colour	: Black.
Nominal Insulation radial thickness on core	: 0.2mm.
Nominal core resistance	: 348Ω/Km, 20°C.
Nominal conductor diameter per core	: 0.3mm.
Nominal overall diameter per core	: 0.7mm.

Colour Rotation of Cores:

The sequence of colours used for core identification as follows:

Red, Blue, Green, Yellow, White, Black, Brown, Violet, Orange, Pink, Turquoise, Grey, Red/Blue, Green/Red, Yellow/Red, White/Red, Red/Black, Red/Brown, Yellow/Blue, White/Blue, Blue/Black, Orange/Blue, Green/Blue, Grey/Blue, Yellow/Green, White/Green, Green/Black, Orange/Green, Grey/Green, Yellow/Brown, White/Brown, Brown/Black, Grey/Brown, Yellow/Violet, Violet/Black, White/Violet.

For Bicolour, first colour is base color, second colour is tracer.

Core colours for 25 core cable are as above, excluding Green/Blue, Grey/Blue and Green/Black.

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Specifications

Cable Reference	Number of Cores	Nominal Diameter		Length (m)	Part Number
		Minimum	Maximum		
7-1-2A	2	2.0	2.5	25	850062
7-1-3A	3	2.1	2.6		850057
				100	850057 100M
7-1-4A	4	2.3	2.8	25	850053 25M
				100	850053
7-1-6A	6	2.8	3.3	25	850063
				100	850063 100M
7-1-9A	9	3.4	3.9	25	850055 25M
				100	850055 100M
7-1-12A	12	3.6	4.1	25	850073 25M
				100	850073 100M
7-1-15A	15	4.1	4.5	25	711603
				100	711615
7-1-18A	18	4.2	4.7	25	711627
				100	850070 100M
7-1-25A	25	5.2	5.8	25	711640
				100	850064 100M
7-1-36A	36	5.8	6.4	25	850069 25M

Dimensions : Millimetres (Unless specified)

Type Number Explanation:

7
Number of Wires per Conductor

1
Nominal Diameter of Each Wire

2
Number of Cores

A
Type of Construction

Nominal Diameter of Each Wire : 1 = 0.10mm.

Number of Cores : 2, 3, 4, 6, 9, 12, 15, 18, 25 and 36.

Type of Construction : A = Tinned Conductors Insulated with PVC to BS6746 Type 2, Overall Sheathed with PVC to BS6746 Type 6.

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Notes:

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