

7-1-C Series

Screened 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).

The cores have tinned conductors of high conductivity annealed copper insulated with PVC compound to BS6746 type 2. The screen is of braid construction conductivity tinned annealed copper wire. The fill factor of density of braid as defined in Def 61-12 part 4 is not less than 0.70 for C type. All types are overall sheathed with Black PVC to BS6746 type 6.

These multicore flexible cables are designed for high density wiring between components and within instruments and electronic equipment. They are extensively used in aircraft, avionics 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.

7-1-9C and 7-1-15C are core number and sheath colours not specifically listed in Defence standard 61-12 Part 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 bicolours, first colour ground, second colour 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
7-1-2C	2	3.0	25	860160 25M
			100	860160 100M
7-1-3C	3	3.2	25	860161 25M
			100	860161 100M
7-1-4C	4	3.4	25	860132 25M
			100	860132 100M
7-1-6C	6	3.8	25	860144 25M
			100	860144 100M
7-1-9C	9	4.4	25	860188 25M
			100	860188
7-1-12C	12	4.6	25	860145 25M
			100	860145 100M
7-1-15C	15	5.4	25	860183 25M
			100	860183 100M
7-1-25C	25	6.6	25	860128 25M
			100	860128 100M

Dimensions : Millimetres (Unless Specified)

Type Number Explanation:

7
Number of
Wires per
Conductor

1
Nominal
Diameter of
Each Wire

2
Number of
Cores

C
Type of
Construction

Nominal Diameter of Each Wire : 1 = 0.10mm.

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

Type of Construction : C = Tinned Conductors Insulated with PVC to BS6746 Type 2, Collectively screened braid construction using tinned, annealed copper wire. Fill factor of density of braid not to be less than 0.70. Overall sheathed with PVC to BS6746 Type 6.

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Notes:

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