

DEF Standard 61-12 Part 4 Cables

7/0.1 mm, Collective shielded, PVC Sheath

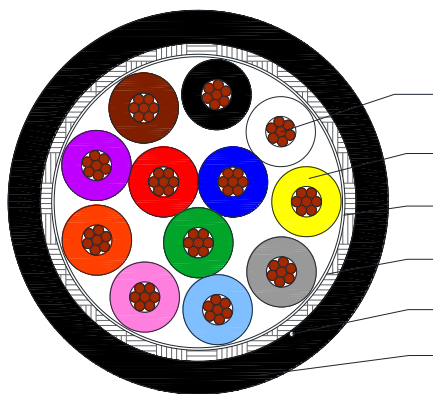


C2050 to C2063

Applications

Sub-miniature electric cables for local interconnection between and within instruments and electronic equipment for Ministry of Defence (MOD) use.

Cross Section Drawing



- Conductor
- Insulation
- PET Tape
- Braiding
- Year Thread
- Sheath

Design

Unit	Properties
Conductor	Flexible Tinned Copper Wire
Insulation	Polyvinyl Chloride (PVC) Colour code see table in page 3
Filler (If applicable)	PVC
Wrapping tape	Polyester Tape
Braiding	Tinned Copper Wire
Manufacture year ID	Coloured thread
Sheath	Flame-Retardant Polyvinyl Chloride (PVC) Standard colour: Black
Standard Put Up Length	305 meters

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

DEF Standard 61-12 Part 4 Cables

7/0.1 mm, Collective shielded, PVC Sheath



C2050 to C2063

Physical Characteristics

Part Number	C2050	C2051	C2052	C2053	C2054	C2055	C2056
Identification code	7-1-2C	7-1-3C	7-1-4C	7-1-6C	7-1-9C	7-1-12C	7-1-18C
No. of Cores	2	3	4	6	9	12	18
Nom. Conductor Diameter (mm)	7×0.1						
Nom. Radial Thickness Insulation(mm)	0.20						
Nom. Insulation Diameter (mm)	0.70						
Braiding Coverage (%)	91						
Nom. Radial Thickness Sheath(mm)	0.4	0.45	0.45	0.45	0.45	0.45	0.55
Nom. Overall Diameter(mm)	3.0	3.2	3.4	3.8	4.4	4.6	5.8
Operating Temperature (°C)	-0 to +70						
Min. Bend Radius (install)(mm)	30	32	34	38	44	46	58
Nominal Cable Weight (kg/km)	13	15	17	21	28	31	50

Part Number	C2057	C2058	C2059	C2060	C2061	C2062	C2063
Identification code	7-1-25C	7-1-36C	7-1-50C	7-1-60C	7-1-85C	7-1-108C	7-1-162C
No. of Cores	25	36	50	60	85	108	162
Nom. Conductor Diameter (mm)	7×0.1						
Nom. Radial Thickness Insulation(mm)	0.20						
Nom. Insulation Diameter (mm)	0.70						
Braiding Coverage (%)	91						
Nom. Radial Thickness Sheath(mm)	0.55	0.55	0.65	0.65	0.65	0.75	0.75
Nom. Overall Diameter(mm)	6.6	7.2	8.3	8.8	9.9	11.3	13.3
Operating Temperature (°C)	-0 to +70						
Min. Bend Radius (install)(mm)	66	72	83	88	99	113	133
Nominal Cable Weight (kg/km)	62	79	100	120	150	180	-

Electrical Characteristics at 20°C

Max. Conductor Resistance (Ω/km)	Voltage test in water for 5 minutes (V rms)	Min. Insulation resistance in water at 500V for 1 minute (MΩ*km)	Voltage test core to core for 1 minutes (V rms)	Voltage test core to shield for 1 minutes (V rms)	Operation voltage at frequencies up to 1.6 KHz (Volts RMS)
384	1000	140	1000	1000	250

DEF Standard 61-12 Part 4 Cables

7/0.1 mm, Collective shielded, PVC Sheath



C2050 to C2063

Colour Code

Core	Colour	Core	Colour	Core	Colour	Core	Colour
1	RED	10	PINK	19	YELLOW / blue	28	ORANGE / green
2	BLUE	11	TURQUOISE	20	WHITE / blue	29	GREY / green
3	GREEN	12	GREY	21	BLUE / black	30	YELLOW / brown
4	YELLOW	13	RED / blue	22	ORANGE / blue	31	WHITE / brown
5	WHITE	14	GREEN / red	23	GREEN / blue	32	BROWN / black
6	BLACK	15	YELLOW / red	24	GREY / blue	33	GREY / brown
7	BROWN	16	WHITE / red	25	YELLOW / green	34	YELLOW / violet
8	VIOLET	17	RED / black	26	WHITE / green	35	VIOLET / black
9	ORANGE	18	RED / brown	27	GREEN / black	36	WHITE / violet

Note 1: Base colours are indicated by capital letters

Note 2: For cables containing 50 or more cores each layer shall consist of a RED core and a BLUE core laid-up adjacent to each other the remainder of the cores in the layer being WHITE. 50 and 108 core cables shall have a centre consisting of a RED, a BLUE and a WHITE core.

Reference Standards

Def Standard 61-12 part 4	(BS) EN 50290-2
IEC 60228	UL2556 FV-1
RoHS directives	