

# DEF Standard 61-12 Part 4 Cables

## 7/0.2mm, Collective Shielded, PVC Sheath

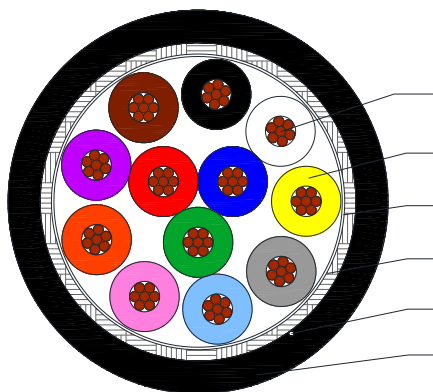


C2064 to C2078

### 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.

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### C2064 to C2078

#### Physical Characteristics

Part Number	C2064	C2065	C2066	C2067	C2068	C2069	C2070	C2071
Identification code	7-2-2C	7-2-3C	7-2-4C	7-2-6C	7-2-8C	7-2-12C	7-2-18C	7-2-20C
No. of Cores	2	3	4	6	8	12	18	20
Nom. Conductor Diameter (mm)	7×0.2							
Nom. Radial Thickness Insulation(mm)	0.30							
Nom. Insulation Diameter (mm)	1.20							
Braiding Coverage (%)	91							
Nom. Radial Thickness Sheath(mm)	0.45	0.45	0.45	0.55	0.55	0.55	0.65	0.65
Nom. Overall Diameter(mm)	4.1	4.3	4.6	5.9	6.4	7.2	8.5	8.9
Operating Temperature (°C)	-20 to +80							
Min. Bend Radius (install)(mm)	41	43	46	59	64	72	85	89
Nominal Cable Weight (kg/km)	23	27	32	55	60	83	110	120

Part Number	C2072	C2073	C2074	C2075	C2076	C2077	C2078
Identification code	7-2-25C	7-2-36C	7-2-50C	7-2-60C	7-2-85C	7-2-108C	7-2-162C
No. of Cores	25	36	50	60	85	108	162
Nom. Conductor Diameter (mm)	7×0.2						
Nom. Radial Thickness Insulation(mm)	0.30						
Nom. Insulation Diameter (mm)	1.20						
Braiding Coverage (%)	91						
Nom. Radial Thickness Sheath(mm)	0.65	0.75	0.75	0.75	0.9	1.0	1.0
Nom. Overall Diameter(mm)	9.8	10.5	13.0	13.8	16.2	18.2	21.3
Operating Temperature (°C)	-20 to +80						
Min. Bend Radius (install)(mm)	98	105	130	138	162	18.2	213
Nominal Cable Weight (kg/km)	150	200	270	310	420	520	730

#### 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 rest for 1 minutes (V rms)	Operation voltage at frequencies up to 1.6 KHz (Volts RMS)
92	1350	100	1000	1000	440

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#### 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	