

# DEF Standard 61-12 Part 5 Cables

## 16/0.2mm, LT Collective Shield, PVC Sheath

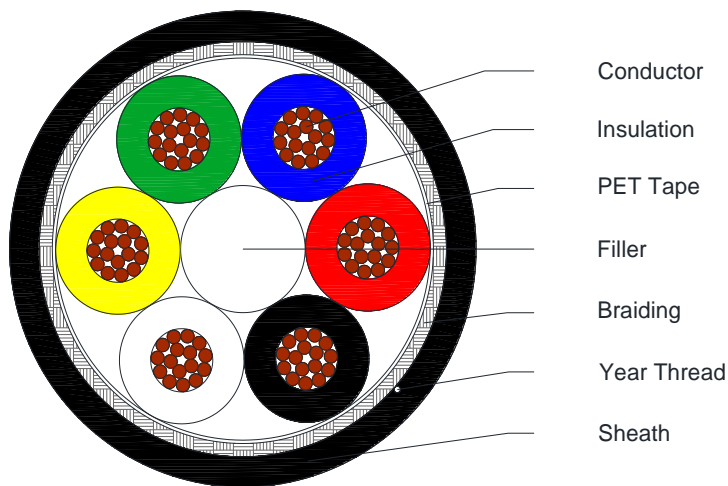


C2086 to C2096

### Applications

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

### Cross Section Drawing



### 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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### C2086 to C2096

#### Physical Characteristics

Part Number	C2086	C2087	C2088	C2089	C2090	C2091
Identification code	16-2-1C	16-2-2C	16-2-3C	16-2-4C	16-2-6C	16-2-10C
No. of Cores	1	2	3	4	6	5 pair
Nom. Conductor Diameter (mm)	16×0.2					
Nom. Radial Thickness Insulation(mm)	0.45					
Nom. Insulation Diameter (mm)	1.90					
Braiding Coverage (%)	91					
Nom. Radial Thickness Sheath(mm)	0.60	0.90	0.90	0.90	0.90	0.90
Nom. Overall Diameter(mm)	3.8	6.9	7.2	7.7	8.7	11.8
Operating Temperature (°C)	-0 to +70					
Min. Bend Radius (install)(mm)	38	69	72	77	87	118
Nominal Cable Weight (kg/km)	24	69	79	92	120	190

Part Number	C2092	C2093	C2094	C2095	C2096
Identification code	16-2-12C	16-2-18C	16-2-25C	16-2-36C	16-2-60C
No. of Cores	12	18	25	36	60
Nom. Conductor Diameter (mm)	16×0.2				
Nom. Radial Thickness Insulation(mm)	0.45				
Nom. Insulation Diameter (mm)	1.90				
Braiding Coverage (%)	91				
Nom. Radial Thickness Sheath(mm)	0.90	0.90	0.90	1.0	1.0
Nom. Overall Diameter(mm)	11	12.5	14.6	16.7	20.3
Operating Temperature (°C)	-0 to +70				
Min. Bend Radius (install)(mm)	110	125	146	167	203
Nominal Cable Weight (kg/km)	190	250	320	450	670

#### 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 1minute (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)
40.1	2000	11	2000	2000	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	