

DEF Standard 61-12 Part 5 Cables 16/0.2mm, LT Collective Shield, PVC Sheath

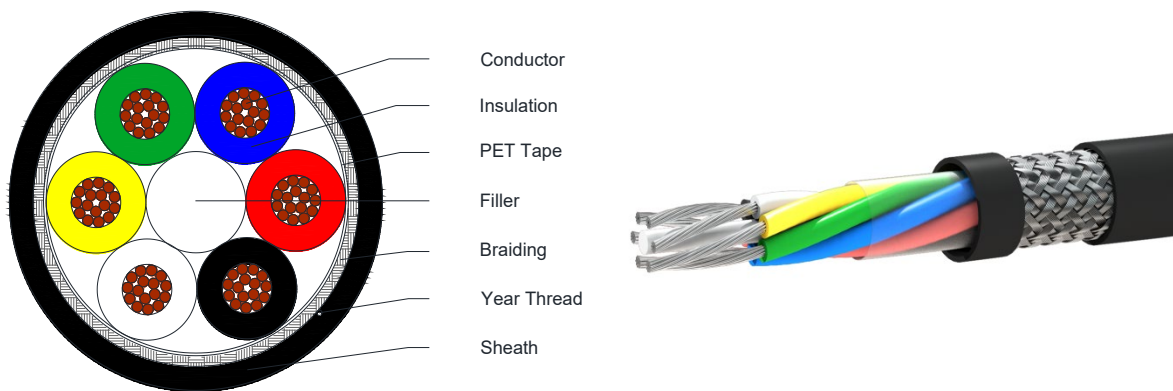


C2086 to C2096

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.

DEF Standard 61-12 Part 5 Cables

16/0.2mm, LT Collective Shield, PVC Sheath



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)	-20 to +80					
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)	-20 to +80				
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 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)
40.1	2000	11	2000	2000	440

DEF Standard 61-12 Part 5 Cables

16/0.2mm, LT Collective Shield, PVC Sheath



C2086 to C2096

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 5	(BS) EN 50290-2
IEC 60228	UL2556 FV-1
RoHS directives	