

# Audio Control & Instrumentation Cable

## 2C to 8C, 18AWG Overall Screen, SWA Armour, Water Swellable Tape, PE Sheath



C5190, C5191, C5192, C5193, C5194

### Applications

Outdoor cables suitable for Audio, Control, Instrumentation and Building Management Systems (BMS)

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Flexible Bare Copper wire
Insulation	Polyolefin Core 1: Black Core 2: Red Core 3: White Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow
Screen	Aluminium/Polyester tape
Drain Wire	Tinned Copper Wire
Bedding	Flame-Retardant Halogen Free (LSZH/HFFR)
Armour	Galvanized Steel wire
Wrapping	Water Swellable tape
Sheath	UV Resistance Low Density Polyethylene (LDPE) 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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**C5190, C5191, C5192, C5193, C5194**

**Physical Characteristics**

Part Number	C5190	C5191	C5192	C5193	C5194
No of cores x 18AWG (7 x 26)	2	3	4	6	8
Nom. Diameter Conductor (mm)	1.2				
Nom. Radial Thickness Insulation (mm)	0.25				
Screen Coverage (%)	115				
Drain wire size (AWG)	24(7×32)				
Nom. Radial bedding Thickness (mm)	0.8	0.8	0.8	0.8	0.8
Nom. Bedding Diameter (mm)	5.1	5.4	5.8	6.8	7.3
Nom. SWA wire Diameter (mm)	0.90	0.90	0.90	0.90	0.90
Nom. Radial sheath Thickness (mm)	1.25	1.25	1.25	1.25	1.25
Nom. Overall diameter (mm)	9.8	10.1	10.5	11.5	12.0
Operating Temperature	-25 / +75				

**Electrical Characteristics**

Part Number	C5190	C5191	C5192	C5193	C5194
No of cores x 18AWG (7 x 26)	2	3	4	6	8
Max. DC Resistance Conductor	22.7				
Max. DC Resistance Screen	78.5				
Capacitance conductor to conductor	198	173	150	168	149
Capacitance conductor to the rest	379	336	300	344	312
Nominal Inductance	0.5				
Max. Recommended Current at 25°C	5	5	4	3.5	3.5
Max. Operating Voltage	300				

**Reference Standards**

(BS) EN 50290-2	EN 60811-HD21.14
EN 60228	RoHS directives