

# Audio Control & Instrumentation Cable

## 2C to 12C, 22AWG, Overall Screen, SWA Armour

### HFFR Sheath

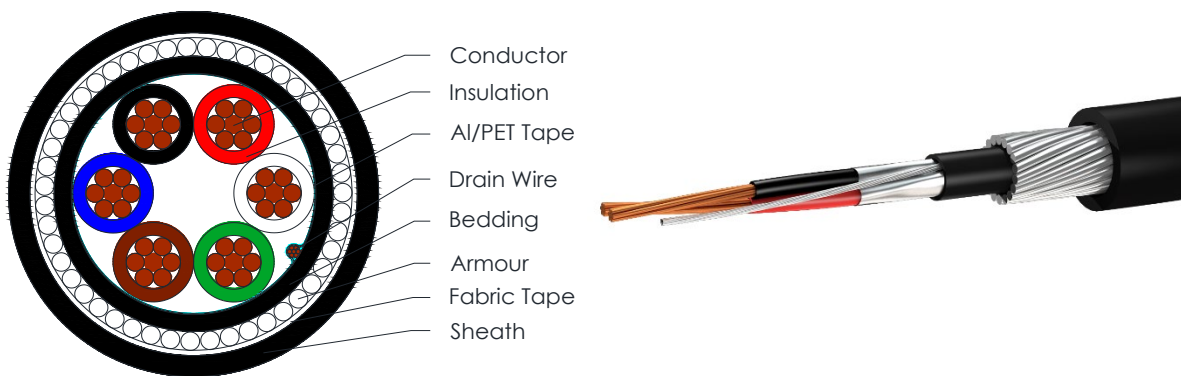


C1941, C1943, C1945, C1947, C1949, C1952

#### 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 Core 9: Purple                      Core 10: Grey Core 11: Pink                      Core 12: Tan
Screen	Aluminium/Polyester tape
Drain Wire	Tinned Copper Wire
Bedding	Flame-Retardant Halogen Free (HFFR) Standard colour: Black
Armour	Galvanized Steel wire
Wrapping	Fabric tape
Sheath	UV Resistance Flame-Retardant Halogen Free (HFFR) 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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#### Physical Characteristics

Part Number	C1941	C1943	C1945	C1947	C1949	C1952
No of cores x 22AWG (7 x 30)	2	3	4	6	8	12
Nom. Diameter Conductor (mm)	0.75					
Nom. Radial Thickness Insulation (mm)	0.25					
Screen Coverage (%)	115					
Drain wire size (AWG)	24(7×32)					
Nom. Radial Thickness Bedding (mm)	0.6					
Nom. Bedding Diameter (mm)	3.9	4.1	4.4	5.2	5.6	7.2
Nom. Armour wire Diameter (mm)	0.9					
Nom. Armour coverage (%)	95					
Nom. Sheath thickness (mm)	1.25					
Nom. Overall Diameter (mm)	8.2	8.4	8.7	9.5	9.9	11.5
Operating Temperature (°C)	-25 / +75					

#### Electrical Characteristics

Part Number	C1941	C1943	C1945	C1947	C1949	C1952
Max. DC Resistance Conductor ( $\Omega$ /km)	57.4					
Max. DC Resistance Screen ( $\Omega$ /km)	78.5					
Capacitance conductor to conductor (pF/m)	155	127	110	126	110	100
Capacitance conductor to rest (pF/m)	298	247	220	258	231	200
Nominal Inductance ( $\mu$ H/m)	0.5					
Max. Recommended Current at 25°C (Amps)	2.8	2.8	2.25	1.95	1.95	1.95
Max. Operating Voltage (Vrms)	300					

#### Reference Standards

(BS) EN 50290-2
EN 60228
IEC 60754-1 & 2
IEC 61034
IEC 60332-3-24
EN 60811-HD21.14
RoHS directives