

# Plenum Grade Audio Control & Instrumentation Cable

1 pr 18AWG, Overall Screen, PVC Sheath

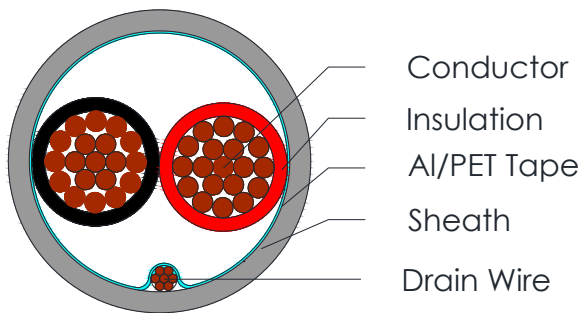


C8004

## Applications

Screened one pair cable suitable for Audio Control, Instrumentation and Building Management Systems (BMS)

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Tinned Copper Wires
Insulation	Fluorinated Ethylene Propylene (FEP) Core 1: Black Core 2: Red
Pair	Two wires twisted together
Screen	Aluminium/Polyester 100% Coverage
Drain wire	20 AWG (7 x 28) Tinned Copper wire
Sheath Material	Plenum Grade Flame-Retardant Polyvinyl Chloride (CMP PVC) Standard colour: Grey
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.

# Plenum Grade Audio Control & Instrumentation Cable

1 pr 18AWG, Overall Screen, PVC Sheath



**C8004**

## Physical Characteristics

Part Number	C8004
Number of pairs	1
Conductor size (AWG)	18
Conductor stranding (AWG)	19x30
Nom. Radial Thickness Insulation (mm)	0.18
Nom. Radial Thickness Sheath (mm)	0.6
Nom. Overall Diameter (mm)	4.5
Operating Temperature (°C)	0 / +60
Max. Recommended Pulling Tension (N)	285
Min. Bend Radius (install) (mm)	45
Nominal Cable Weight (kg/km)	29.8

## Electrical Characteristics

Part Number	C8004
Conductor AWG size (AWG)	18
Impedance ( $\Omega$ )	35
Nom. DC Resistance Conductor ( $\Omega$ /km)	18.1
Nom. DC Resistance Screen ( $\Omega$ /km)	24.0
Capacitance conductor to conductor (pF/m)	167
Capacitance cond. To other cond.+screen (pF/m)	318
Nom. Inductance ( $\mu$ H/m)	0.49
Nom. Velocity of Propagation (%)	69
Nom. Delay (ns/m)	4.82
Max. Recommended Current at 25°C (Amps)	5.4
Max. Operating Voltage (Vrms)	300

## Reference Standards

(BS) EN 50290-2
IEC 60228
NFC 725.154(A), ANSI/NFPA 262
RoHS directives