

# Audio, Control & Instrumentation Cable

## 20pr, 18AWG Overall Screened – PVC Sheath



C4658

### Applications

Overall screened paired cables suitable for Security and Alarm systems, Audio, Control and Instrumentation

### Cross Section Drawing

#### Design

Unit	Properties
Conductor	Bare Copper wires
Insulation	Polyolefin
Pair	two twisted wires
Cable Core	N pairs stranded
Drain Wire	Tinned Copper Wire
Overall Screen	Aluminium/Polyester foil
Rip Cord	Nylon Yarn
Sheath Material	Flame-Retardant Polyvinyl Chloride (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.

### Color Scheme

Pair	Color	Pair	Color
1	White-blue + Blue	11	Black-blue + Blue
2	White-orange + Orange	12	Black-orange + Orange
3	White-green + Green	13	Black-green + Green
4	White-brown + Brown	14	Black-brown + Brown
5	White-grey + Grey	15	Black-grey + Grey
6	Red-blue + Blue	16	Yellow-blue + Blue
7	Red -orange + Orange	17	Yellow -orange + Orange
8	Red -green + Green	18	Yellow -green + Green
9	Red -brown + Brown	19	Yellow -brown + Brown
10	Red -grey + Grey	20	Yellow -grey + Grey

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### C4668

#### Physical Characteristics

Part Number	C4668
No. of Pairs	20
Nom. Diameter Conductor (AWG)	18 (7 x26)
Nom. Radial Thickness Insulation (mm)	0.20
Drain wire size (AWG)	24AWG (7 x32)
Coverage of screen (%)	115
Nom. Radial Thickness Sheath (mm)	0.8
Nom. Overall Diameter (mm)	17.0
Operating Temperature (°C)	-25°C to +75°C
Max. Recommended Pulling Tension (N)	3958
Min. Bend Radius (install) (mm)	170
Nominal Cable Weight (kg/km)	410.3

#### Electrical Characteristics

Part Number	C4668
No. of Pairs	20
Max. Conductor Resistance (Ohm/km)	22.7
Max. Screen Resistance (Ohm/km)	78.5
Capacitance cond to cond (pF/m)	70
Capacitance Cond to rest (pF/m)	130
Max. Current at 25°C (Amps)	3.5
Operating Voltage (Vrms)	300

#### Reference Standards

(BS) EN 50290-2
IEC 60228
IEC 60332-1
RoHS directives