

# Audio Control & Instrumentation Cable, 2C to 10C, 20AWG Overall Screen & PVC Sheath

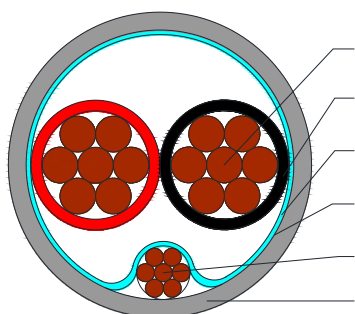


CI 4046, CI 4047, CI 4048, CI 4049, CI 4050, CI 4051, CI 4052, CI 4053

## Applications

Screened Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS).

## Cross Section Drawing



Conductor  
Insulation  
Al/PET Tape  
Rip Cord  
Drain Wire  
Sheath



## Design

Unit	Properties
Conductor	N x Bare Copper wire, 20AWG flexible
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
Drain wire	24 AWG (7 x 32) Tinned Copper
Screen	Aluminium/Polyester 100% Coverage
Rip cord	Nylon yarn
Sheath	UV-Resistant 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.

# Audio Control & Instrumentation Cable, 2C to 10C, 20AWG Overall Screen & PVC Sheath



**C14046, C14047, C14048, C14049, C14050, C14051, C14052, C14053**

## Physical Characteristics

Part Number	C14046	C14047	C14048	C14049	C14050	C14051	C14052	C14053
No of cores x 20AWG (7 x 28)	2	3	4	5	6	8	9	10
Nom. Diameter Conductor(mm)	1.0							
Nom. Radial Thickness Insulation(mm)	0.2							
Nom. Radial Thickness Sheath(mm)	0.4							
Nom. Overall Diameter(mm)	3.5	3.7	4.1	4.6	5.0	5.4	5.8	6.3
Operating Temperature (°C)	-25 to +75							
Max. Recommended Pulling Tension (N)	112	168	224	280	336	448	504	560
Min. Bend Radius (install)(mm)	35	37	41	46	50	54	58	63
Nominal Cable Weight (kg/km)	22	28.5	35.4	42.6	49.9	62.9	66.7	70.5

## Electrical Characteristics at 20°C

Part Number	C14046	C14047	C14048	C14049	C14050	C14051	C14052	C14053
No of cores x 20AWG (7 x 28)	2	3	4	5	6	8	9	10
Max. DC Resistance Conductor ( $\Omega$ /km)	35.75							
Max. DC Resistance Screen ( $\Omega$ /km)	78.5							
Capacitance conductor to conductor (pF/m)	100	90	90	90	90	75	75	75
Capacitance cond. To other cond.+screen (pF/m)	190	160	160	160	140	140	140	140
Nominal Inductance ( $\mu$ H/m)	0.5							
Max. Recommended Current at 25°C (Amps)	5	5	5	3.5	3.5	3.5	3.5	3.5
Max. Operating Voltage (Vrms)	300							

## Reference Standards

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