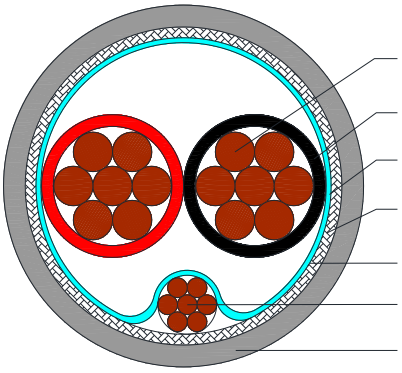
Audio Control & Instrumentation Cable, 2C to 8C, 20AWG Overall Screened & Shielded Plenum Grade PVC Sheath

C8792, C8793, C8794, C8795, C8796

Applications

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

Cross Section Drawing



Conductor
Insulation
Al/PET Tape
Braiding
Rip Cord
Drain Wire
Sheath

Design

Unit	Properties
Conductor	Tinned Copper wire, 20AWG flexible
Insulation	PVC Core 1: Black Core 2: Red Core 3: White Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow
Drain Wire	Tinned Copper Wire
Screen	Aluminium/Polyester
Braiding	Tinned Copper Wire
Rip Cord	Nylon Yarn
Sheath Material	Plenum Grade 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.

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Physical Characteristics

Part Number	C8792	C8793	C8794	C8795	C8796
No of cores x 20AWG (7 x 28)	2	3	4	6	8
Nom. Diameter Conductor (mm)	0.93				
Nom. Radial Thickness Insulation (mm)	0.30				
Min. Screen Coverage (%)	115				
Drain Wire size	24 AWG (7 x 32)				
Min. Braiding Coverage (%)	85				
Nom. Radial Thickness Sheath(mm)	0.45	0.65	0.65	0.65	0.65
Nom. Overall Diameter (mm)	4.5	5.1	5.5	6.4	6.8
Operating Temperature (°C)	0 / +60				
Max. Recommended Pulling Tension (N)	112	168	224	336	448
Min. Bend Radius (install) （mm）	41	47	51	60	64
Nominal Cable Weight (kg/km)	23.4	35.1	42.7	58.3	72.6

Electrical Characteristics

Part Number	C8792	C8793	C8794	C8795	C8796
No of cores x 20AWG (7 x 28)	2	3	4	6	8
Max. DC Resistance Conductor (Ω/km)	35.75				
Max. DC Resistance Screen (Ω/km)	78.5				
Capacitance conductor to conductor (pF/m)	145	142	132	129	127
Capacitance conductor to the rest(pF/m)	261	256	238	233	228
Nominal Inductance (µH/m)	0.5				
Max. Recom. Current @ 25°C (Amps)	3.75	3.75	3	2.6	2.6
Max. Operating Voltage (Vrms)	300				

Reference Standards

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