

# Audio Control & Instrumentation Cable, 2 to 16pairs, 24AWG, Overall Screen & LSZH-HFFR Sheath

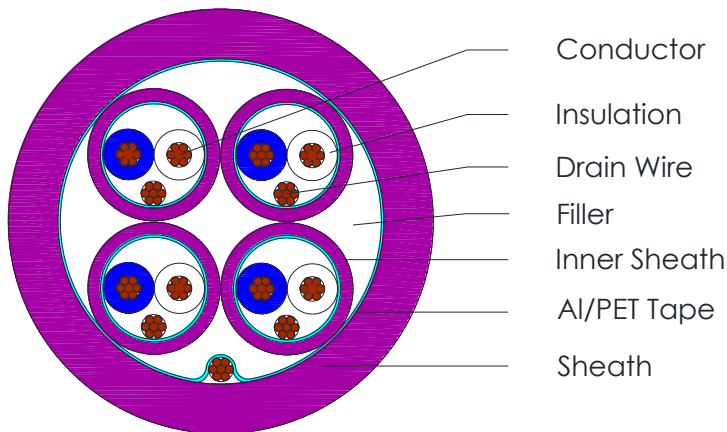


C5282, C5283, C5284, C5285, C5286

## Applications

Digital multi-modulation cable used in professional studios for the transmission of analogue and digital audio signals. Designed to meet the requirements of the AES/EBU specification.

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Bare Copper wire
Insulation	Foamed Polyethylene Core 1: White Core 2: Blue
Drain wire	Tinned Copper
Screen	Aluminium/Polyester 100% Coverage
Inner sheath	Halogen Free Fire Resistancy LSZH-HFFR Elements are numbered for identification
Filler	Yes
Shielding Foil	Al-PET Tape
Drain Wire	Tinned coper wire
Outer Sheath	Halogen Free Fire Resistancy LSZH-HFFR Standard colour: Purple
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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**C5282, C5283, C5284, C5285, C5286**

## Physical Characteristics

Part Number	C5282	C5283	C5284	C5285	C5286
No of pairs	2	4	8	12	16
Conductor cross section (mm <sup>2</sup> )	0.22				
Conductor gauge (AWG)	24				
Nom. Diameter Conductor(mm)	7×0.20				
Nom. Radial Insulation Diameter (mm)	1.40				
Nom. Inner Drain wire Diameter (mm)	7×0.20				
Nom. Inner Sheath Diameter (mm)	3.40				
Nom. Outer Drain wire Diameter (mm)	7×0.20				
Nom. Outer Sheath thickness (mm)	1.1	1.2	1.2	1.3	1.3
Nom. Overall Diameter(mm)	9.2	10.8	14.2	16.5	18.6
Operating Temperature (°C)	-25 to +70				
Min. Setting radius (mm)	5×OD				
Min. Bend Radius (install)(mm)	10×OD				

## Electrical Characteristics at 20°C

Part Number	C5282	C5283	C5284	C5285	C5286
No of cores	2	4	8	12	16
Impedance at 0.1 to 6MHz (Ω)	110±15				
Nom. DC Resistance Conductor (Ω/km)	86				
Capacitance conductor to conductor at 1KHz (pF/m)	40				
High Voltage test conductor to conductor (Vdc)	1000				
High Voltage test conductor to shield (Vdc)	1000				
Nom. Velocity of propagation (%)	80				

## Reference Standards

(BS) EN 50290-2	IEC 60754-1&-2
IEC 60228	IEC 61034
IEC 60332-1	RoHS directives