

# Audio Control & Instrumentation Cable

1 pr 18AWG, Overall Screen, SWA Armored with HFFR-LSZH Sheath

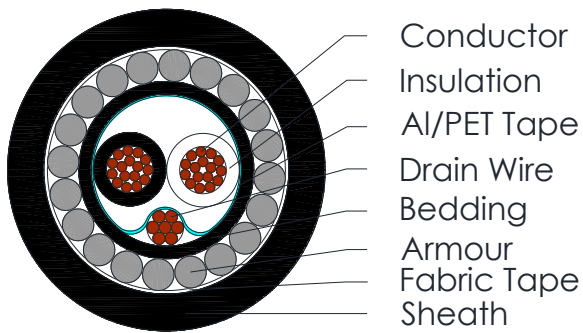


C5029

## Applications

Instrumentation and computer cable for data transmission applications.

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Tinned Copper Wires
Insulation	Polyethylene Core 1: Black Core 2: Clear
Pair	Two wires twisted together
Screen	Aluminium/Polyester 100% Coverage
Drain wire	Tinned Copper wire
Bedding	Halogen Free Fire Resistant (HFFR-LSZH) Standard colour: Black
Armour	Galvanized Steel Wire
Wrapping	Fabric Tape
Sheath Material	UV Resistant Halogen Free Fire Resistant (HFFR-LSZH) Standard colour: Black
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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HFFR-LSZH Sheath



**C5029**

## Physical Characteristics

Part Number	C5029
Number of pairs	1
Conductor size (AWG)	18
Conductor stranding (AWG)	16x30
Nom. Insulation diameter (mm)	2.08
Nom. Drain Wire stranding (AWG)	7x28
Nom. Radial Thickness Bedding (mm)	0.90
Nom. Bedding Diameter (mm)	6.0
Nom. Steel Wire diameter (mm)	0.90
Nom. Armouring Coverage (%)	95
Nom. Radial Thickness Sheath (mm)	1.30
Nom. Overall Diameter (mm)	10.70
Operating Temperature (°C)	-15 to 80
Min. Bend Radius (install) (mm)	150

## Electrical Characteristics

Part Number	C5029
Conductor AWG size (AWG)	18
Impedance ( $\Omega$ )	60
Nom. DC Resistance Conductor ( $\Omega$ /km)	21.3
Capacitance conductor to conductor (pF/m)	98
Capacitance cond. To other cond.+screen (pF/m)	144
Nominal Loop Inductance ( $\mu$ H/m)	0.59
Nom. Velocity of Propagation	66
Max. Recommended Current at 25°C (Amps)	5.3
Max. Operating Voltage (Vrms)	300
Test voltage conductor to conductor (VDS)for 3secs	2500
Test voltage conductor to screen (VDS)for 3secs	2500

## Reference Standards

(BS) EN 50290-2	IEC 60754-1&-2
IEC 60228	IEC 61034-1&-2
IEC 60332-3-24	RoHS directives