

# Instrumentation Cable, 2PR to 8PR, 1.05QMM, Overall Screen & LSZH- HFFR Sheath

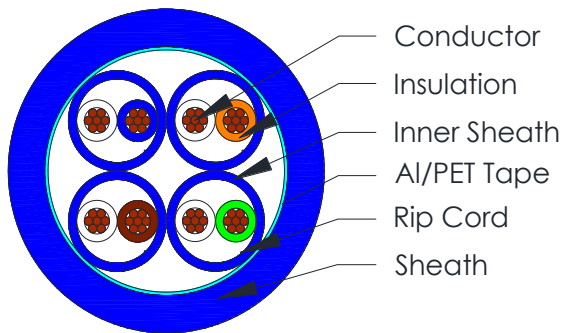


C5294, C5295, C5296

## Applications

Instrument Cables.

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Flexible Bare Copper wire
Insulation	XLPE Pair 1: White + Blue Pair 2: White + Orange Pair 3: White + Green Pair 4: White + Brown Pair 5: White + Grey Pair 6: Red + Blue Pair 7: Red + Orange Pair 8: Red + Green
Rip cord	Nylon yarn
Inner Sheath	LSZH-HFFR
Screen	Aluminium/Polyester
Sheath	LSZH-HFFR Standard colour: Blue
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.

**Instrumentation Cable,  
2PR to 8PR, 1.0SQMM, Overall Screen & LSZH-  
HFFR Sheath**



**C5294, C5295, C5296**

**Physical Characteristics**

Part Number	C5294	C5295	C5296
No of pairs	2	4	8
Conductor Size(mm <sup>2</sup> )	1.0		
Nom. Conductor Construction (mm)	7×0.42		
Nom. Radial Thickness Insulation(mm)	0.45		
Nom. Radial Thickness Inner Sheath(mm)	0.40		
Nom. Radial Thickness Outer Sheath(mm)	1.0		
Nom. Overall Diameter(mm)	12.3	14.4	18.9
Temperature Withstandibility (°C) Normal Condition	+90		
Temperature Withstandibility (°C) Short Circuit Condition	+125		
Min. Bend Radius (install)(mm)	123	144	189
Nominal Cable Weight (kg/km)	109	180	326

**Electrical Characteristics at 20°C**

Part Number	C5294	C5295	C5296
No of pairs	2	4	8
Max. DC Resistance Conductor (Ω/km)	18.6		
Max. Capacitance conductor to conductor (pF/m)	150		
Max. Inductance to resistance L/R Ratio ( μ H/ Ω )	25		
Rating Votage (Vrms)	300/500		
Test Voltage (Vrms)	2500		

**Reference Standards**

(BS) EN 50290-2	IEC 60502-1
IEC 60228 Class 2	EN 50288-7
IEC 60332-1	RoHS directives
IEC 60332-3-24	