

# Instrumentation Cable – 2 to 6pr, 16AWG, Individual & Overall Screen Tray Cable, 600V, LSZH/HFFR Sheath

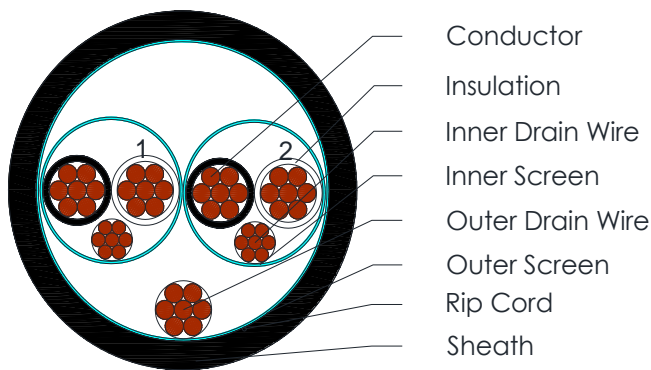


**C5790, C5791, C5792, C5793**

## Applications

Tray cable (TC) is designed for installation indoors or outdoors, aerially, in conduits, ducts and cable trays in circuits not exceeding 600 volts. Tray Cable is often used in industrial control systems, distribution systems, interconnection of protective and signaling devices and for general use in manufacturing.

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Flexible Bare Copper wire
Insulation	Polyvinyl Chloride/Nylon Colours for pairs: Black & White with Numbers
Inner Drain Wire	Tinned Copper wire
Inner Screen	Aluminium/Polyester tape
Outer Drain Wire	Tinned Copper wire
Outer Screen	Aluminium/Polyester tape
Rip cord	Nylon yarn
Sheath Material	UV Resistant Flame-Retardant Halogen Free (HFFR/LSZH) Standard Colour: Black
Standard Put Up Length	305 metres

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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## C5790, C5791, C5792, C5793

### Physical Characteristics

Part Number	C5790	C5791	C5792	C5793
No of pairs	2	3	4	6
Nom. Conductor Configuration (AWG)	16(7x24)			
Inner Drain Wire size (AWG)	18(7x26)			
Outer Drain Wire size (AWG)	16(7x24)			
Screen Coverage (%)	115			
Nom. Radial Thickness Sheath (mm)	1.20	1.20	1.60	1.60
Nom. Overall Diameter (mm)	10.5	12.1	14.6	17.0
Operating Temperature (°C)	-30 / +90			
Max. Recommend. Pulling Tension (N)	990	1410	1828	2665
Min. Bend Radius (install) (mm)	108	120	146	170
Nominal Cable Weight (kg/km)	156	446	613	656

### Electrical Characteristics at 20°C

Part Number	C5790	C5791	C5792	C5793
No of pairs	2	3	4	6
Nom. Characteristic Impedance ( $\Omega$ )	-	-	-	50
Nom. DC Resistance Conductor ( $\Omega$ /km)	12.1			
Nom. Outer Shield DC Resistance ( $\Omega$ /km)	10.6			
Ind. Pair Nom. Shield DC Resistance ( $\Omega$ /km)	16.7			
Max. Operating Voltage (Vrms)	600			

### Reference Standards

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