

# Instrumentation Cable – 1 pr to 50pr

18AWG, Tray Cable, 600v

Overall Screen, SWA Armoured, PVC Sheath

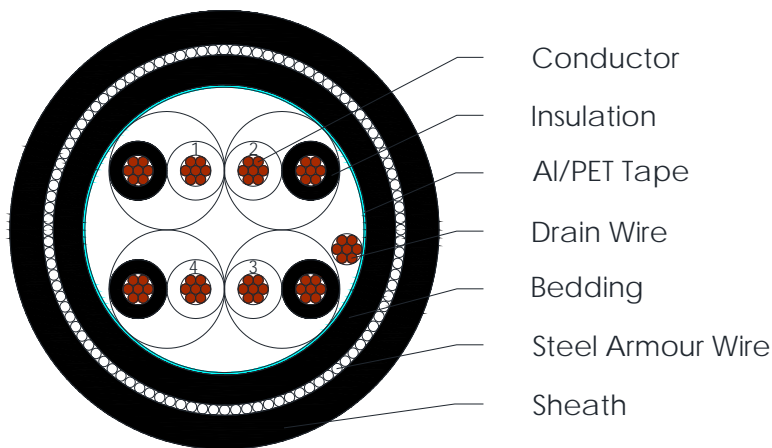


C2778, C2779, C2780, C2781, C2782, C2783, C2784, C2785, C2786

## Application

Tray cable (TC) is designed for installation indoors or outdoors, direct bury, 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
Drain Wire	Tinned Copper wire
Screen	Aluminium/Polyester tape
Bedding	Polyvinyl Chloride (PVC) Standard Colour: Black
Armour	Steel Armour wire
Rip cord	Nylon yarn
Sheath Material	UV Resistant Polyvinyl Chloride (PVC) 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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## Physical Characteristics

Part Number	C2778	C2779	C2780	C2781	C2782	C2783	C2784	C2785	C2786
No of pairs	1	2	4	8	12	16	24	36	50
Nom. Conductor Configuration (AWG)	18(7x26)								
Drain Wire size (AWG)	24(7x32)								
Screen Coverage (%)	115								
Nom. Radial Thickness Sheath (mm)	1.2	1.2	1.2	1.6	1.6	1.6	2.1	2.1	2.1
Nom. Bedding Diameter (mm)	6.8	10.3	12.0	15.2	18.3	20.1	25.8	29.8	34.9
Armour wire diameter (mm)	0.90								
Nom. Overall Diameter (mm)	11.0	14.5	16.2	20.2	23.3	25.1	31.8	35.8	40.9
Operating Temperature (°C)	-30 / +90								
Min. Bend Radius (install) (mm)	198	261	292	364	420	452	573	645	736
Nominal Cable Weight (kg/km)	254	380	476	725	930	1100	1611	2048	2589

## Electrical Characteristics

Part Number	C2778	C2779	C2780	C2781	C2782	C2783	C2784	C2785	C2786
No of pairs	1	2	4	8	12	16	24	36	50
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7								
Max. DC Resistance Screen ( $\Omega$ /km)	78.5								
Max. Operating Voltage (Vrms)	600								

## Reference Standards

IEC 60332-1
IEC 60228
BS)EN 50290
RoHS directives