

# Instrumentation Cable – 2 to 14C, 14AWG, Screened Tray Cable, 600V, PVC Sheath

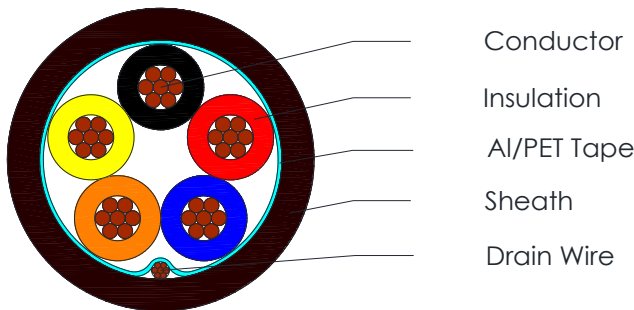


**C2968, C2969, C2970, C2971, C2972, C2974, C2976, C2978, C2980**

## 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 cores: 1. Black 2. Red 3. Blue 4. Orange 5. Yellow 6. Brown 7. Red/Black 8. Blue/Black 9. Orange/Black 10. Yellow/Black 11. Brown/Black 12. Black/Red 13. Blue/Red 14. Orange/Red
Screen	Al/PET Tape
Drain Wire	Tinned copper wire
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	C2968	C2969	C2970	C2971	C2972	C2974	C2976	C2978	C2980
No of cores	2	3	4	5	6	8	10	12	14
Nom. Conductor Configuration (AWG)	14(7x22)								
Screen Coverage (%)	115								
Nom. Drain Wire (AWG)	16(7x24)								
Nom. Radial Thickness Sheath (mm)	1.20	1.20	1.20	1.20	1.20	1.20	1.60	1.60	1.60
Nom. Overall Diameter (mm)	8.14	8.90	9.51	10.31	11.3	12.30	15.10	15.50	16.36
Operating Temperature (°C)	-30 / +90								
Max. Recommend. Pulling Tension (N)	481	721	961	1202	1442	1922	2403	2884	3364
Min. Bend Radius (install) (mm)	81.4	89.0	95.1	103.1	113.0	123.0	151.0	155.0	163.6
Nominal Cable Weight (kg/km)	105.1	131.9	160.1	188.3	221.0	270.0	357.7	414.2	481.1

## Electrical Characteristics at 20°C

Part Number	C2968	C2969	C2970	C2971	C2972	C2974	C2976	C2978	C2980
No of cores	2	3	4	5	6	8	10	12	14
Max. DC Resistance Conductor (Ω/km)	9.36								
Max. DC Resistance Screen (Ω/km)	15.47								
Max. Recommended Current at 25°C (Amps)	25.0	15.0	12.0	12.0	12.0	12.0	7.5	7.5	7.5
Max. Operating Voltage (Vrms)	600								

## Reference Standards

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