

Instrumentation cable – 2pr to 50pr

22AWG Power Limited Tray Cable, 300v

Overall Screen, PVC Sheath

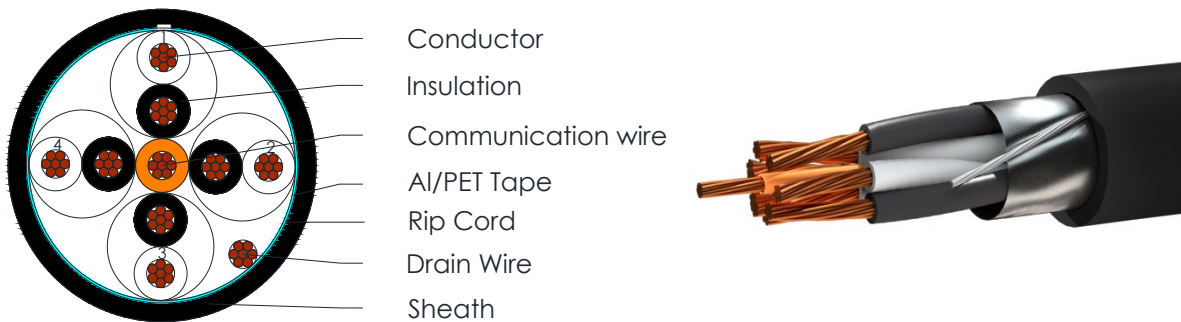


C2700, C2701, C2702, C2703, C2704, C2705, C2706

Applications

Power limited tray cable (PLTC) is designed for installation indoors or outdoors, aerially, in conduits, ducts and cable trays in circuits not exceeding 300 volts. PLTC is often used in industrial control systems, intercom systems, burglar alarms and point-of-sale systems.

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Bare Copper wire
Insulation	Polyvinyl Chloride Colours for pairs: Black & White with numbers Communication wire: Orange
Drain Wire	Tinned Copper wire
Screen	Aluminium/Polyester tape
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	C2700	C2701	C2702	C2703	C2704	C2705	C2706
No of pairs	2	4	8	12	16	24	50
Nom. Conductor Configuration (AWG)	22(7x30)						
Insulation Diameter (mm)	1.58						
Drain Wire size (AWG)	24(7x32)						
Screen Coverage (%)	115						
Nom. Radial Thickness Sheath (mm)	1.1	1.1	1.35	1.35	1.35	1.65	1.90
Nom. Overall Diameter (mm)	7.9	9.1	11.4	13.6	15.1	19.0	25.8
Operating Temperature (°C)	-30/ +105						
Max. Recommend. Pulling Tension (N)	205	355	764	1067	1290	1980	6110
Min. Bend Radius (install) (mm)	79	91	114	136	152	190	258
Nominal Cable Weight (kg/km)	55	89	166	260	300	370	740

Electrical Characteristics

Part Number	C2700	C2701	C2702	C2703	C2704	C2705	C2706
No of pairs	2	4	8	12	16	24	50
Max. DC Resistance Conductor (Ω /km)	57.4						
Max. DC Resistance Screen (Ω /km)	78.5						
Nom. Capacitance conductor to conductor (pF/m)	85	85	85	85	85	85	85
Nom. Capacitance conductor to Shield (pF/m)	158	148	148	148	148	148	148
Max. Operating Voltage (Vrms)	300						
Max. Recommended Current at 25°C (Amps)	2.4						

Reference Standards

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