

Instrumentation cable – 1 pr to 50pr

16AWG Power Limited Tray Cable, 300v

Overall Screen, PVC Sheath

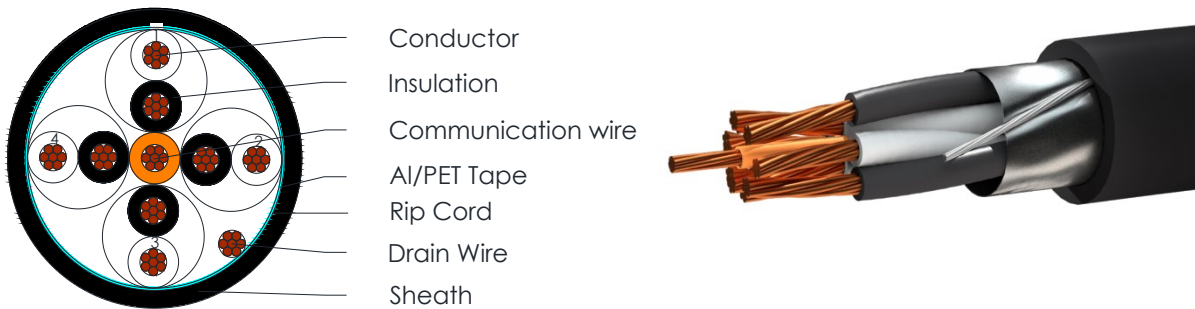


C2726, C2727, C2728, C2729, C2730, C2731, C2732, C2733, C2734, C2735

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	C2726	C2727	C2728	C2729	C2730	C2731	C2732	C2733	C2734	C2735
No of pairs	1	2	3	4	8	12	16	24	36	50
Nom. Conductor Configuration (AWG)	16(7x24)									
Insulation Diameter (mm)	2.4									
Communication wire conductor configuration (AWG)	N.A.	22(7x30)								
Communication wire Insulation Diameter (mm)	N.A.	1.58								
Drain Wire size (AWG)	24(7x32)									
Screen Coverage (%)	115									
Nom. Radial Thickness Sheath (mm)	0.95	1.35	1.35	1.35	1.35	1.63	1.68	1.9	1.9	2.24
Nom. Overall Diameter (mm)	6.8	11.1	12.0	12.7	15.4	19.2	21.1	26.6	30.0	39.6
Operating Temperature (°C)	-30/ +105									
Max. Recommend. Pulling Tension (N)	178	645	1112	1468	2700	3962	5281	7768	11592	16080
Min. Bend Radius (install) (mm)	65	111	113	127	154	190	211	266	300	396
Nominal Cable Weight (kg/km)	63	152	180	216	360	528	728	990	1406	1934

Electrical Characteristics

Part Number	C2726	C2727	C2728	C2729	C2730	C2731	C2732	C2733	C2734	C2735
No of pairs	1	2	3	4	8	12	16	24	36	50
Max. DC Resistance Conductor 16 AWG (Ω /km)	15.47									
Max. DC Resistance Conductor 22 AWG (Ω /km)	57.4									
Max. DC Resistance Screen (Ω /km)	78.5									
Nom. Capacitance conductor to conductor (pF/m)	200	121								
Nom. Capacitance conductor to Shield (pF/m)	374	220								
Max. Operating Voltage (Vrms)	300									
Max. Recommended Current at 25°C (Amps)	11									

Reference Standards

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