

Instrumentation Cable – 1 pr to 50pr

18AWG Power Limited Tray Cable, 300v Overall Screen, PVC Sheath

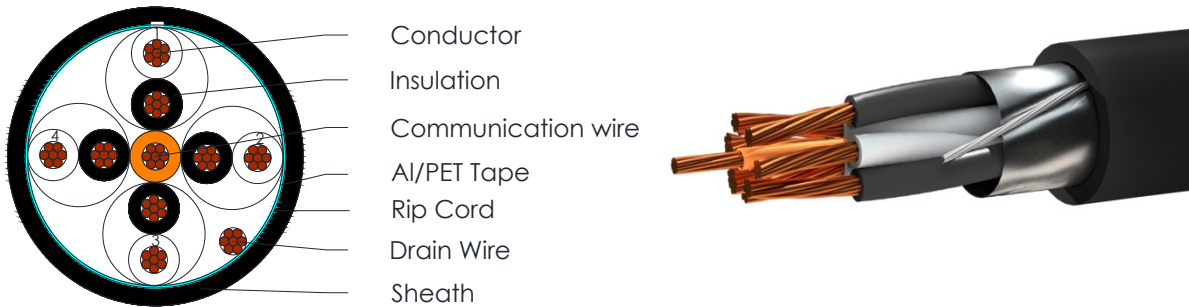


C2716, C2717, C2718, C2719, C2720, C2721, C2722, C2723, C2724, C2725

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	C2716	C2717	C2718	C2719	C2720	C2721	C2722	C2723	C2724	C2725
No of pairs	1	2	3	4	8	12	16	24	36	50
Nom. Conductor Configuration (AWG)	18(7x26)									
Insulation Diameter (mm)	2.0									
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	1.1	1.35	1.35	1.35	1.63	1.68	1.9	1.9	1.9
Nom. Overall Diameter (mm)	5.9	9.5	10.5	11.4	13.7	17.0	18.1	23.6	26.9	31.5
Operating Temperature (°C)	-30/ +105									
Max. Recommend. Pulling Tension (N)	116	538	734	940	1732	2487	2847	4915	7313	9948
Min. Bend Radius (install) (mm)	59	95	105	114	137	170	181	236	269	315
Nominal Cable Weight (kg/km)	48	96	131	158	263	384	521	713	1000	1560

Electrical Characteristics

Part Number	C2716	C2717	C2718	C2719	C2720	C2721	C2722	C2723	C2724	C2725
No of pairs	1	2	3	4	8	12	16	24	36	50
Nom. Impedance (Ω)	50 ± 10%									
Max. DC Resistance Conductor 18AWG (Ω/km)	22.7									
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)	167	115								
Nom. Capacitance conductor to Shield (pF/m)	312	178								
Max. Operating Voltage (Vrms)	300									
Max. Recommended Current at 25°C (Amps)	6.4									

Reference Standards

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