Instrumentation Cable – 1pr to 50pr

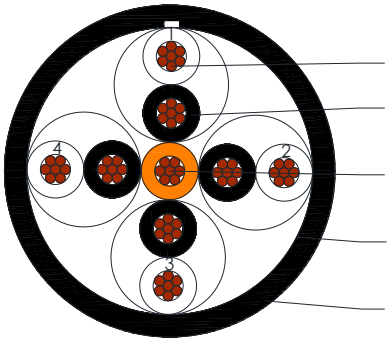
18AWG Power Limited Tray Cable, 300v Unscreened, PVC Sheath

C7001, C7002, C7003, C7004, C7005, C7006, C7007, C7008, C7009, C7010

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



Conductor
Insulation
Communication wire
Rip Cord
Sheath

Design

Unit	Properties
Conductor	Flexible Bare Copper wire
Insulation	Polyvinyl Chloride Colours for pairs: Black & White with numbers Communication wire: Orange
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	C7001	C7002	C7003	C7004	C7005	C7006	C7007	C7008	C7009	C7010
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								
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)	5.8	9.4	10.4	11.3	13.6	16.9	18.0	23.5	26.8	31.4
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)	58	94	104	113	136	169	180	235	268	314
Nominal Cable Weight (kg/km)	45	93	128	154	258	379	515	706	994	1554

Electrical Characteristics

Part Number	C7001	C7002	C7003	C7004	C7005	C7006	C7007	C7008	C7009	C7010
No of pairs	1	2	3	4	8	12	16	24	36	50
Max. DC Resistance Conductor 18AWG (Ω/km)	22.7									
Max. DC Resistance Conductor 22 AWG (Ω/km)	57.4									
Nom. Capacitance conductor to conductor (pF/m)	167	115								
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