

Instrumentation Cable – 1 pr to 50pr

20AWG Power Limited Tray Cable, 300v Overall Screen, PVC Sheath

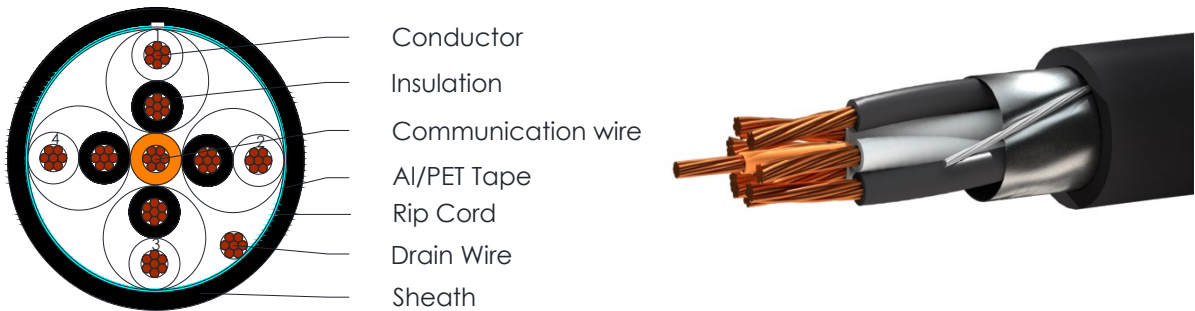


C2707, C2708, C2709, C2710, C2711, C2712, C2713, C2714, C2715

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.

Instrumentation Cable – 1 pr to 50pr

20AWG Power Limited Tray Cable, 300v

Overall Screen, PVC Sheath



C2707, C2708, C2709, C2710, C2711, C2712, C2713, C2714, C2715

Physical Characteristics

Part Number	C2707	C2708	C2709	C2710	C2711	C2712	C2713	C2714	C2715
No of pairs	1	2	4	8	12	16	24	36	50
Nom. Conductor Configuration (AWG)	20(7x28)								
Insulation Diameter (mm)	1.75								
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	1.1	1.35	1.35	1.63	1.63	1.9	1.9
Nom. Overall Diameter (mm)	5.3	8.4	9.5	12.0	14.4	16.5	20.0	24.4	28.4
Operating Temperature (°C)	-30/ +105								
Max. Recommend. Pulling Tension (N)	71	410	600	1100	1600	2100	3100	4587	6330
Min. Bend Radius (install) (mm)	53	84	95	120	144	165	200	244	284
Nominal Cable Weight (kg/km)	43	90	128	200	274	340	510	756	1000

Electrical Characteristics

Part Number	C2707	C2708	C2709	C2710	C2711	C2712	C2713	C2714	C2715
No of pairs	1	2	4	8	12	16	24	36	50
Max. DC Resistance Conductor 20 AWG (Ω /km)	35.75								
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)	98								
Nom. Capacitance conductor to Shield (pF/m)	180								
Max. Operating Voltage (Vrms)	300								
Max. Recommended Current at 25°C (Amps)	3.0								

Reference Standards

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