

Instrumentation cable – 2pr to 50pr

I 6AWG Power Limited Tray Cable, 300v Individual & Overall Screen, PVC Sheath

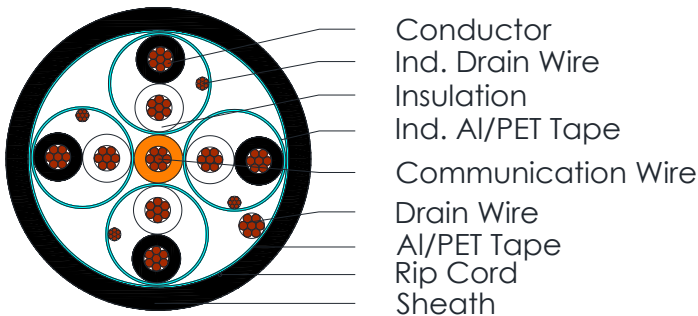


C2853, C2854, C2855, C2856, C2857, C2858, C2859, C2860

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
Individual Drain Wire	Tinned Copper wire
Individual Screen	Aluminium/Polyester tape over pairs
Drain Wire	Tinned Copper wire
Overall 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	C2853	C2854	C2855	C2856	C2857	C2858	C2859	C2860
No of pairs	2	4	8	12	16	24	36	50
Nom. Conductor Configuration (AWG)	16(7x24)							
Insulation Diameter (mm)	2.4							
Communication wire conductor configuration (AWG)	22(7x30)							
Communication wire Insulation Diameter (mm)	1.58							
Inner Drain Wire size (AWG)	18(7x26)							
Drain Wire size (AWG)	16(7x24)							
Screen Coverage (%)	115							
Nom. Radial Thickness Sheath (mm)	1.35	1.40	1.60	1.60	1.90	1.90	2.10	2.20
Nom. Overall Diameter (mm)	11.6	13.4	17.5	21.0	24.0	29.6	35.5	40.6
Operating Temperature (°C)	-30/ +105							
Max. Recommend. Pulling Tension (N)	1032	1868	3530	5204	7700	10197	14087	19189
Min. Bend Radius (install) (mm)	115	134	175	210	240	296	355	406
Nominal Cable Weight (kg/km)	240	258	468	665	851	1240	1805	2410

Electrical Characteristics

Part Number	C2853	C2854	C2855	C2856	C2857	C2858	C2859	C2860
No of pairs	2	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							
Nom. DC Resistance Screen (Ω /km)	10.8	10.3	9.67	9.48	9.36	8.95	7.68	7.23
Nom. Ind. Pair Screen DC resistance (Ω /km)	16.6							
Nom. Capacitance conductor to conductor (pF/m)	197							
Nom. Capacitance conductor to Shield (pF/m)	361							
Max. Operating Voltage (Vrms)	300							

Reference Standards

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