

Instrumentation Cable –3pr 14AWG

Power Limited Tray Cable, 300v

Individual & Overall Screen, PVC Sheath



C2814

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.

Design

Unit	Properties
Conductor	Flexible Bare Copper wire
Insulation	Cross Linked Polyethylene (XLPE) Colours for pairs: Black & White with numbers Communication wire: Orange
Individual Drain Wire	Tinned Copper wire
Individual Screen	Aluminium/Polyester tape
Overall Drain Wire	Tinned Copper wire
Overall Screen	Aluminium/Polyester tape
Rip cord	Nylon yarn
Sheath Material	UV Resistant & Fire resistant Low smoke Polyvinyl Chloride (LSF 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.

Physical Characteristics

Part Number	C2814
No of pairs	3
Nom. Conductor Configuration (AWG)	14(42x30)
Communication wire conductor configuration (AWG)	22(7x30)
Communication wire Insulation Diameter (mm)	1.58
Individual Drain Wire size (AWG)	24(7x32)
Individual Screen Coverage (%)	115
Overall Drain Wire size (AWG)	24(7x32)
Overall Screen Coverage (%)	115
Nom. Radial Thickness Sheath (mm)	1.4
Nom. Overall Diameter (mm)	12.0
Operating Temperature (°C)	-30/ +105
Max. Recommend. Pulling Tension (N)	850
Min. Bend Radius (install) (mm)	120
Nominal Cable Weight (kg/km)	194

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Electrical Characteristics

Part Number	C2814
No of pairs	3
Max. DC Resistance Conductor 14AWG (Ω /km)	9.36
Max. DC Resistance Conductor 22 AWG (Ω /km)	57.4
Max. DC Resistance Screen (Ω /km)	78.5
Max. Operating Voltage (Vrms)	300

Reference Standards

IEC 60228	IEC 60332-3-24
BS/EN 50290	IEC 61034
RoHS directives	