

# Instrumentation cable – 1 pr

## 20 to 12AWG Power Limited Tray Cable, 300v Screened, PVC Sheath

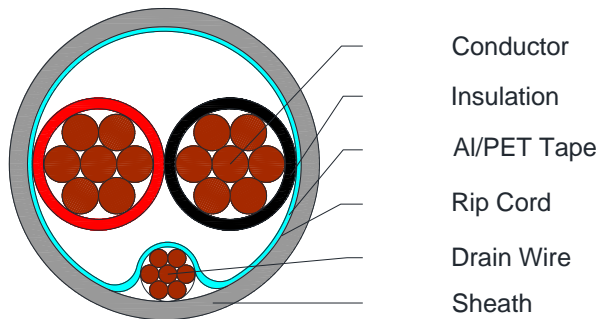


**C4790, C4791, C4792, C4793, C4794**

### 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 Tinned Copper wire
Insulation	Polyvinyl Chloride Colours for pair: Black & Red
Screen	Al/PET Tape
Drain Wire	Tinned copper wire
Rip cord	Nylon yarn
Sheath Material	Polyvinyl Chloride (PVC) Standard Colour: Grey
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	C4790	C4791	C4792	C4793	C4794
No of pairs	1				
Nom. Conductor Size (AWG)	20	18	16	14	12
Nom. Conductor Configuration (AWG)	19x32	19x30	19x29	42x30	65x30
Insulation Diameter (mm)	1.75	2.15	2.30	3.05	3.63
Drain Wire Size (AWG)	24(7x32)				
Nom. Radial Thickness Sheath (mm)	0.95	0.95	0.95	1.1	1.1
Nom. Overall Diameter (mm)	5.6	6.0	6.7	8.3	9.5
Operating Temperature (°C)	-30/ +105				
Max. Recommend. Pulling Tension (N)	115	138	178	285	876
Min. Bend Radius (install) (mm)	55	59	66	82	94
Nominal Cable Weight (kg/km)	39	43	55	87	117

#### Electrical Characteristics

Part Number	C4790	C4791	C4792	C4793	C4794
No of pairs	1				
Nom. DC Resistance Conductor ( $\Omega$ /km)	31.2	19.6	13.8	8.3	5.9
Nom. DC Resistance Screen ( $\Omega$ /km)	78.5				
Nom. Capacitance conductor to conductor (pF/m)	170	170	170	170	170
Nom. Capacitance conductor to rest (pF/m)	320	320	320	320	320
Nom. Inductance ( $\mu$ H/m)	0.62	0.59	0.59	0.59	0.59
Max. Operating Voltage (Vrms)	300				
Max. Recommended Current at 25°C (Amps)	7.6	8.4	9.6	12	17

#### Reference Standards

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