

# Instrumentation cable – 1 pr to 50pr

## 16AWG Power Limited Tray Cable, 300V

### Overall Screen, LSZH-HFFR Sheath

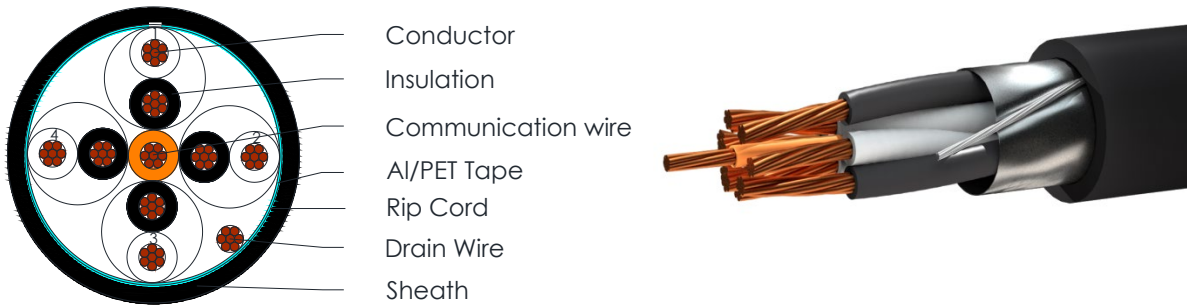


C2862, C2863, C2864, C2865, C2866, C2867, C2868, C2869, C2870, C2871

#### 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	Halogen Free Flame Retardancy (HFFR) 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 Halogen Free Flame Retardancy (HFFR) 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

## I 6AWG Power Limited Tray Cable, 300V

### Overall Screen, LSZH-HFFR Sheath



**C2862, C2863, C2864, C2865, C2866, C2867, C2868, C2869, C2870, C2871**

#### Physical Characteristics

Part Number	C2862	C2863	C2864	C2865	C2866	C2867	C2868	C2869	C2870	C2871
No of pairs	1	2	3	4	8	12	16	24	36	50
Nom. Conductor Configuration (AWG)	16(7x24)									
Insulation Diameter (mm)	2.4									
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	1.35	1.35	1.35	1.35	1.63	1.68	1.9	1.9	2.24
Nom. Overall Diameter (mm)	6.5	11.1	11.3	12.7	15.4	19.0	21.1	26.6	30.0	39.6
Operating Temperature (°C)	-30/ +105									
Max. Recommend. Pulling Tension (N)	178	645	1112	1468	2700	3962	5281	7768	11592	16080
Min. Bend Radius (install) (mm)	65	111	113	127	154	190	211	266	300	396
Nominal Cable Weight (kg/km)	63	152	180	216	360	528	728	990	1406	1934

#### Electrical Characteristics

Part Number	C2862	C2863	C2864	C2865	C2866	C2867	C2868	C2869	C2870	C2871
No of pairs	1	2	3	4	8	12	16	24	36	50
Max. DC Resistance Conductor 16 AWG ( $\Omega$ /km)	15.47									
Max. DC Resistance Conductor 22 AWG ( $\Omega$ /km)	57.4									
Max. DC Resistance Screen ( $\Omega$ /km)	78.5									
Nom. Capacitance conductor to conductor (pF/m)	200	121								
Nom. Capacitance conductor to Shield (pF/m)	374	220								
Max. Operating Voltage (Vrms)	300									
Max. Recommended Current at 25°C (Amps)	11									

#### Reference Standards

IEC 60228	IEC 61034-2
(BS)EN 50290	IEC 60754-1&-2
IEC 60332-3-24	RoHS directives