

# Instrumentation Cable – 1 pr to 50pr

## 20AWG Power Limited Tray Cable, 300v

### Overall Screen, HFFR Sheath

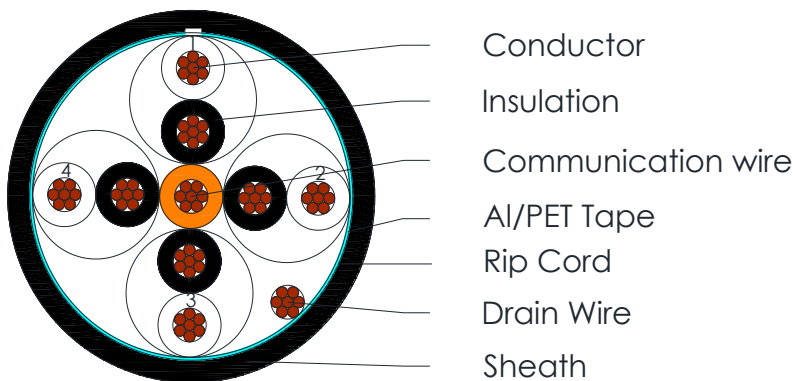


**C5764, C5765, C5766, C5767, C5768, C5769, C5770, C5771, C5772**

#### 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	Flame-Retardant Halogen Free (HFFR/LSZH) 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 Flame-Retardant Halogen Free (HFFR/LSZH) 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	C5764	C5765	C5766	C5767	C5768	C5769	C5770	C5771	C5772
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	C5764	C5765	C5766	C5767	C5768	C5769	C5770	C5771	C5772
No of pairs	1	2	4	8	12	16	24	36	50
Max. DC Resistance Conductor 20 AWG ( $\Omega$ /km)	35.75								
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)	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

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