

Instrumentation Cable – 1 pr to 50pr

16AWG, Tray Cable, 600v

Overall Screen, LSZH/HFFR Sheath

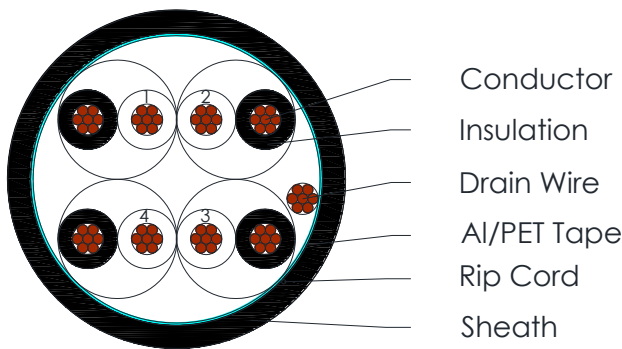


C5780, C5781, C5782, C5783, C5784, C5785, C5786, C5787, C5788, C5789

Applications

Tray cable (TC) is designed for installation indoors or outdoors, aerially, in conduits, ducts and cable trays in circuits not exceeding 600 volts. Tray Cable is often used in industrial control systems, distribution systems, interconnection of protective and signaling devices and for general use in manufacturing.

Cross Section Drawing



Design

Unit	Properties
Conductor	Flexible Bare Copper wire
Insulation	Polyvinyl Chloride/Nylon Colours for pairs: Black & White with numbers
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	C5780	C5781	C5782	C5783	C5784	C5785	C5786	C5787	C5788	C5789
No of pairs	1	2	3	4	8	12	16	24	36	50
Nom. Conductor Configuration (AWG)	16(7x24)									
Drain Wire size (AWG)	24(7x32)									
Screen Coverage (%)	115									
Nom. Radial Thickness Sheath (mm)	1.2	1.2	1.35	1.6	1.6	1.6	2.1	2.1	2.1	2.1
Nom. Overall Diameter (mm)	8.0	12.0	13.3	14.9	17.7	21.2	24.5	29.8	34.0	39.9
Operating Temperature (°C)	-30 / +90									
Max. Recommend. Pulling Tension (N)	467	800	1110	1430	2700	3970	5240	8420	11600	16000
Min. Bend Radius (install) (mm)	77	115	123	142	172	206	240	294	335	394
Nominal Cable Weight (kg/km)	67	134	177	242	396	552	759	1090	1518	2054

Electrical Characteristics

Part Number	C5780	C5781	C5782	C5783	C5784	C5785	C5786	C5787	C5788	C5789
No of pairs	1	2	3	4	8	12	16	24	36	50
Max. DC Resistance Conductor (Ω /km)	15.47									
Max. DC Resistance Screen (Ω /km)	78.5									
Max. Operating Voltage (Vrms)	600									

Reference Standards

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