imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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High Reliability USB 2.0 Cordsets



General Construction: this is a USB-2.0 cable containing one 28 AWG 90 Ω characteristic impedance data pair, two 24 AWG power conductors, overall SFTP shields (SFTP = double shielding, Braid and foild), jacketed in black UV resistant Polyurethane HFFR*. Designed for fixed or portable applications in industrial and harsh environments.*HFFR: Halogen Free Flame Retardant.

Jacket Compound Specification:

Halogen Free Flame Retardant Polyether-based Polyurethane. Glossy finish. Excellent hydrolysis resistance. High microbial resistance. UV resistant. High flexibility.

ROHS COMPLIANT

| Battelfield communication |
|---------------------------|
| Industrial Process |
| |

Applications Robotics

Motion ControlRailwaysCNC Machines

PHYSICAL CHARACTERISTICS

| DATA CONDUCTORS | bare copper, 7/0.12 mm nom |
|---------------------------------|---|
| | (28 AWG) |
| DATA INSULATION | 0.9 mm nom |
| COLOR DATA PAIR | Green & white |
| POWER CONDUCTORS | Tinned copper, 7/0.2 mm (24 AWG) |
| POWER INSULATION | 1.1 mm nom |
| COLOR POWER WIRE | Red & Black |
| SHIELDS | Foil: poviding 100% coverage, in contact with tinned copper drain wire and an overall braid providing 65% nom. cover- age made of 16x5/0.1 mm tinned copper strands |
| JACKET | PU compound |
| COLOR JACKET | Black |
| WEIGHT | 26 lbs/mft (38 kg/km) |
| OUTSIDE DIAM. | 0.20 inch (5.1 mm nom. +/- 0.15) |
| MIN BEND RADIUS | 45.9 mm (9x O. D.) |
| (During installation) | |
| MIN BEND RADIUS | 25.5mm (5 x O.D.) |
| (During operation) | |
| TEMPERATURE installation | Plus 60°C, minus 5°C |
| TEMPERATURE operational | Plus 70°C, minus 30°C |
| | |

ELECTRICAL CHARACTERISTICS

| DC RESISTANCE | 94 Ohms/Km @ 20°C |
|-----------------------------|--------------------------|
| IMPEDANCE | 90 +/- 13 Ohms 1-400 MHz |
| | |
| ATTENUATION | |
| 1 KHZ | 8 db/100m max. |
| 4 MHZ | 15,6 db/100m max. |
| 24 MHZ | 38 db/100m max. |
| 96 MHZ | 76 db/100m max. |
| 200 MHZ | 128 db/100m max. |
| 400 MHZ | 232 db/100m max. |
| | |
| | |
| CAPACITANCE 2X28 AWG | 54pF/m nom. @ 1KHz |
| CAPACITANCE | 2.0 pF/m max. @ 1KHz |
| UNBALANCE | (wire to ground) |
| DIELECTRIC STRENGTH | VAC/1 min - 500 V/Min |
| RESISTANCE UNBALANCE | 2% max. @ 20°C |

VELOCITY OF PROPAGA- 65% min. 68% max.

TION

| | A PLUG OVERMOLDED SB SPECIFICATION > 5 M) Part Number |
|-----------------|---|
| 6 m / 19,68 ft | USB2 AA 600 PU HFFR |
| 7 m / 22.96 ft | USB2 AA 700 PU HFFR |
| 8 m / 26.24 ft | USB2 AA 800 PU HFFR |
| 9 m / 29.52 ft | USB2 AA 900 PU HFFR |
| 10 m / 32.80 ft | USB2 AA 1000 PU HFFR |

| CORDSETS WITH A US | SB A PLUG OVERMOLDED |
|--------------------|------------------------------|
| ON EACH END (UNDEF | R USB SPECIFATION \leq 5M) |
| Length (m/ft) | Part Number |
| 0.5 m / 1,64 ft | USB2 AA 050 PU HFFR |
| 1 m / 3.28 ft | USB2 AA 100 PU HFFR |
| 1.50 m / 4.92 ft | USB2 AA 150 PU HFFR |
| 2 m / 6.56 ft | USB2 AA 200 PU HFFR |
| 2.50 m / 8.2 ft | USB2 AA 250 PU HFFR |
| 3 m / 9.84 ft | USB2 AA 300 PU HFFR |
| 3.50 m / 11.48 ft | USB2 AA 350 PU HFFR |
| 4 m / 13.12 ft | USB2 AA 400 PU HFFR |
| 4.5 m / 14.76 ft | USB2 AA 450 PU HFFR |
| 5 m / 16.40 ft | USB2 AA 500 PU HFFR |