# 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!



### Contact us

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## **High Reliability USB 2.0 Cordsets**



General Construction: this is a USB-2.0 cable containing one 28 AWG 90 $\Omega$  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)	
<b>TEMPERATURE</b> 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
<b>RESISTANCE UNBALANCE</b>	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