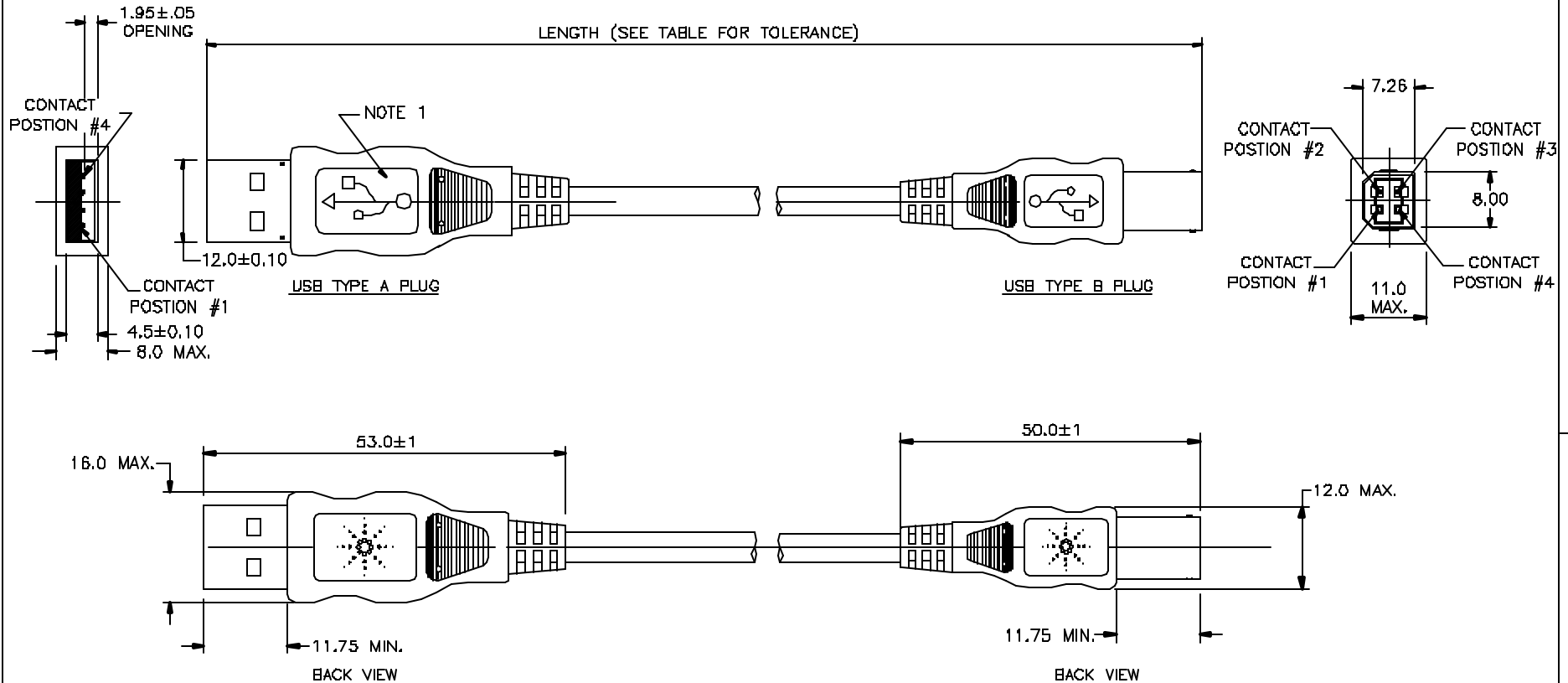


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PRODUCT NUMBER
57841-YVWXZN



FULL SPEED 12 Mbs CABLE ASSEMBLY

Pin	Circuit	Wire Color
1	VBus	Red
2	D-	White
3	D+	Green
4	Gnd	Black
Shell	Chassis Ground	Drain Wire / Shield

Tolerances

< 2m	± 30 mm
$\geq 2m \leq 5m$	± 50 mm
> 5m	± 100 mm

mat'l. code				tolerances unless otherwise specified		CUSTOMER COPY		FCI Electronics	
itr	ecn no	dr	date	linear		projection		title	www.fciconnect.com
A	CY10887	P.C	8/06/01						
				angles		METRIC		product family	USB
				dr	P.C	8/08/01	scale	size	dwg no
				engr	HLEE	8/08/01			
				chr	D.SHOVANE	8/08/01	code	57841	sheet 1 of 3
				appd	HLEE	8/08/01			
sheet index	revision	sheet							

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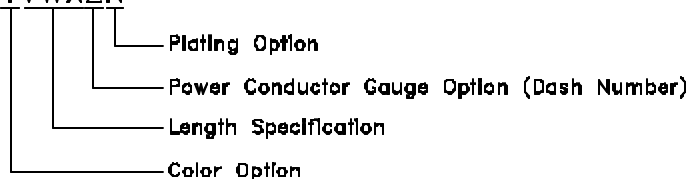
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PRODUCT NUMBER

57841-YVWXZN

57841-YVWXZN



Y Color Jacket and Overmolding Option

B Black
W White

VWX Length specification (Note: See the power conductor gauge requirements for specific lengths Z Table).

V Length in Meters

W Length in 1/10 Meters

X Length in 1/100 of Meters

Example a length of 1.85 Meters, VWX would be 185

N Plating Option (Mating Area)

C 30 Micro Inches GXT

D 30 Micro Inches Gold

Z- Power Conductor Wire Gauge Table Option

Dash No.	A	B	C	D	E
Conductor	28	26	24	22	20
Resistance	0.232 Ohm/m	0.145 Ohm/m	0.091 Ohm/m	0.057 Ohm/m	0.036 Ohm/m
Length					
0 Thru 0.81m	✓	✓	✓	✓	✓
0.82 Thru 1.31m		✓	✓	✓	✓
1.32 Thru 2.08m			✓	✓	✓
2.09 Thru 3.33m				✓	✓
3.34 Thru 5.00m					✓

Boxes marked with ✓ are in accordance with USB spec. gauge vs. length

Plug & Cable Construction and Performance Specification

Cable Assembly Performance

Cable Pull Out- 40 Newtons (8.99 Pounds)

Signal Frequency (MHz)	Signal Attenuation (maximum) dB/cable	Signal Frequency (MHz)	Signal Attenuation (maximum) dB/cable
0.064	0.08	4.000	0.39
0.256	0.11	8.000	0.57
0.512	0.13	12.000	0.67
0.772	0.15	24.000	0.95
1.000	0.20	48.000	1.35
		96.000	1.9

Plug Performance

Voltage Rating	30 Vac (rms)
Current Rating	1 Amp
Temperature Rating	
Storage Temperature	-40°C to 60°C
Operating Temperature	0°C to 40°C
Durability	1500 Cycles
Insulation Resistance	1000 Mohms
Dielectric Withstanding Voltage	500 Vac
Insertion Force	35 Newtons (7.9 Pounds) Maximum
Withdrawal Force	10 Newtons (2.3 Pounds) Minimum
	35 Newtons (7.9 Pounds) Maximum

Electric Test:

-100% Continuity

tolerances unless otherwise specified			CUSTOMER COPY		FCI Electronics www.fci-electronics.com	
linear			projection		FULL SPEED USB CABLE ASSEMBLY SERIES A TO SERIES B	
angles						
dr	P.C	8/09/01	METRIC N.T.S	product family	USB	code
engr	HLEE	8/09/01		size	dwg no	213
chr	D.CHIVANEC	8/09/01		57841		sheet
appd	HLEE	8/09/01				2 of 3

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PRODUCT NUMBER

57841-YVWXZN

Cable/Plug Over mold

Bulk Cable Construction Materials

High Density Polyvinyl Chloride

Signal Conductors, Copper, Twisted Pair
 Power Conductors, Copper

28 AWG Stranded Tinned (7x0.127)
 28 AWG Stranded Tinned (7x0.127)
 26 AWG Stranded Tinned (7x0.163)
 24 AWG Stranded Tinned (7x0.203)
 22 AWG Stranded Tinned (7x0.254)
 20 AWG Stranded Tinned (10x0.254)

Wrap (Full Speed Only)

Aluminum/Mylar, 25° Minimum
 Aluminum extarlar

Braid, Copper (Full Speed Only)

Interwoven Tinned 65° Minimum
 Coverage

Power Conductor Insulators

Semirigid-Polyvinyl Chloride, Red and
 Black

Outer Jacket

Polyvinyl Chloride

Signal Conductor Insulators

Foamed Polyethylene, Green and White

Plug and Cable Assembly Materials

Plastic Housing

High Temperature Thermoplastic
 Oxygen Index (LOI) > 21% UL 94V-0 RATING

Terminals

High Strength Copper Alloy
 (Phosphor Bronze)

Shields

High Strength Copper Alloy
 (Phosphor Bronze)

Plating Terminals

Underplate: 1.25 Micro Meters
 (50 Micro Inches) Nickel Minimum
-C Mating Area: 30 GXT
 .05 Micro Meters (2 Micro Inches) of Gold
 Minimum Over 0.70 Micro Meters
 (30 Micro Inches) of Palladium Nickel
 Minimum]

-D Mating Area: 30 Gold
 0.70 Micro Meters Gold (30 Micro Inches)
Tail Area: 2.54 Micro Meters
 (100 Micro Inches) Tin Lead

Plating Shell

Underplate: 1.25 Micro Meters
 (50 Micro Inches) Nickel Minimum
Overall: 2.5 Micro Meters
 (100 Micro Inches) Bright Tin Minimum

NOTES:

1. Product Compliant With USB Specification.

A
 B

tolerances unless otherwise specified			CUSTOMER COPY	 Electronics FCI www.fciconnect.com			
linear				projection	title FULL SPEED USB CABLE ASSEMBLY SERIES A TO SERIES B		
angles							
dr	P.C	8/08/01		METRIC	product family	USB	code
engr	HLEE	8/08/01	 N.T.S	size	dwg no	213	
chr	D.CHIVANEZ	8/08/01		A	57841		sheet
appd	HLEE	8/08/01					3 of 3

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