

PDM: Rev:A

STATUS: Released Printed: Sep 22, 2004

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PRODUCT NUMBER 55963-YVWXZN

> 55963-YVWXZN Plating Option Power Conductor Gauge Option (Dash Number) Length Specification Color Option

Y Color: Jacket and Overmolding Option

B Black

W White

VWX. Length specification (Note:See the power conductor gauge Plug & Cable Construction and Performance Specification

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

	<u> </u>		•	<u> </u>	
Dash No.	A	В	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

Cable Assembly Performance

Cable Pull Out-40 Newtons (8.99 Pounds)

Signal Attenu		Signal Attenu	
Frequency	Attenuation (maximum)	Frequency	Attenuation (maximum)
(MHz)	dB/cable	(MHz)	dB/cable
0.064	0.08	12.000	0.67
0.256	0.11	24.000	0.95
0.512 0.772 1.000 4.000 8.000	0.13 0.15 0.20 0.39 0.57	48.000 96.000 200.000 400.000	1.35 1.9 3.2 5.8

Plug Performance

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Voltage Rating 30 Vac (rms) Current Rating 1 Amn

Temperature Ratina

Storage Temperature Operating Temperature Durability

Insulation Resistance

Dielectric Withstanding Voltage

Insertion Force

Withdrawal Force

Electric Test: -100% Continuity

1 Allip
-40°C to 60°C
0°C to 40°C
1500 Cycles
1000 Mohms
500 Vac
35 Newtons (7.9 Pounds) Maximum 10 Newtons (2.3 Pounds) Minimum 35 Newtons (7.9 Pounds) Maximum
10 Newtons (2.3 Pounds) Minimum
35 Newtons (7.9 Pounds) Maximum
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Cable/Plug Over mold

Power Conductors, Copper

Bulk Cable Construction Materials High Density Polyvinyl Chloride

Signal Conductors, Copper, Twisted Pair 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)

Aluminum/Mylar, 25° Minimum Wrap (Full Speed Only) Aluminum exterior

Braid, Copper (Full Speed Only) Interwoven Tinned 65° Minimum

Coverage Semirigid-Polyvinyl Chloride, Red and Power Conductor Insulators

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

<u>-C Mating Area:</u> 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.

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