

# Micro-USB Connectors, Waterproof (IP67-rated) 105443 Right Angle, SMT with Through-hole tabs, without Flange, Halogen-free



**Mechanically robust micro-USB connectors withstand post-solder reflow while preventing water ingress at IP67 level**

## Features and Benefits

High sealing protection rated at IP67 level

Safeguards costly application investments of mobile device makers and users

Insert-mold housing

Ensures reinforced terminal retention to housing; mechanical robustness of part and superior coplanarity before and after reflow soldering

Wide terminal contacts

Provide higher current-carrying capacity of 2.0A than USB-IF (USB Implementers Forum) specification of 1.80A

Chamfered terminal contact tips

Facilitate smooth mating with plug terminals at 10,000 durability cycles

Shell design with mating-angle and dimension-control

Reduces wear-and-tear on shell while ensuring an insertion or withdrawal force beyond 10,000 durability cycles

Plug-stopper on shell

Enables the connector to withstand excessive insertion force when mated with cable plug



Waterproof micro-USB Connectors, IP67-rated



Front and rear views of the Series 105443 Waterproof Micro-USB Connector

## Applications

### Smart phones and mobile devices (I/O connectors)

Mobile and smart phones

Tablet PCs

### Consumer

Digital cameras

Camcorders



Tablet PCs



Smart phones



Digital Camcorders

# Micro-USB Connectors, Right Angle Waterproof (IP67-rated), Halogen-free 105443 SMT with Through-hole tabs, without Flange

**molex**<sup>®</sup>

## Reference Information

Packaging: Embossed Tape on Reel  
Mates With: Micro-USB Cable Plugs  
Terminal Used: Copper Alloy  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free: Yes  
Glow Wire Compliant: No

## Electrical

Voltage (max.): 30V AC (ms)  
Current (max.): 1.0A (Signal pins 2, 3 and 4)  
1.8A (Power pins, 1 and 5)  
Low Level Contact Resistance (max.): 40 milliohms  
Dielectric Withstanding Voltage: 100V AC (rms)  
Insulation Resistance (min.): 1000 megohm

## Mechanical

Mating Force (max.): 35N  
Unmating Force: 8 to 25N  
Durability: 10,000 cycles

## Physical

Housing: LCP, Black, UL94V-0  
Shell: Stainless Steel  
Metal Tabs: Stainless Steel  
Plating:  
Contact Area — Gold Flash over 0.75 micron  
Palladium/Nickel (Pd/Ni)  
Solder Tail Area — Gold Flash  
Underplating — Nickel (2.0micron min.)  
Operating Temperature: -30 to +85°C

## Ordering Information

Series No.	Connector	IP-Rating	Mounting Style
<a href="#">105443</a>	Receptacle	IP67	Right-angle, top-mount, SMT with through-hole mounting tabs

[www.molex.com/product/microusb.html](http://www.molex.com/product/microusb.html)